

Fyzikálny ústav SAV, v. v. i.



**Výročná správa o činnosti a hospodárení
za rok 2025**

Bratislava
január 2026

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ČASŤ A

Fyzikálny ústav SAV, v. v. i.

**Výročná správa o činnosti organizácie
za rok 2025**

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Fyzikálny ústav SAV, v. v. i.

Riaditeľ: doc. Mgr. Mário Ziman, PhD.

Zástupca riaditeľa: Mgr. Andrej Herzán, PhD.

Vedecký tajomník: Mgr. Erik Bartoš, PhD.

Predseda správnej rady: doc. Mgr. Mário Ziman, PhD.

Predseda vedeckej rady: Mgr. Erik Bartoš, PhD.

Predseda dozornej rady: prof. RNDr. Peter Samuely, DrSc., akademik US Slovenska

Člen Snemu SAV: RNDr. Katarína Gmucová, CSc.

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Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

- **Spoločné pracovisko EIÚ a FÚ SAV**
Vrbovská cesta 5051/110, 92101 Piešťany

Vedúci organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

- **Spoločné pracovisko EIÚ a FÚ SAV**
Silvia Bačová

Členovia Snemu SAV za organizačné zložky:

nie sú

Typ organizácie: Verejná výskumná inštitúcia od roku 2022

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	K	K		K do 35 rokov		F	P	T	O
		M	Ž	M	Ž				

Celkový počet zamestnancov	102	73	29	6	4	102	79.76	62.64	4
Vedeckí pracovníci	75	63	12	3	2	75	58.74	57.37	1
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	8	6	2	3	1	8	3.67	3.67	0
Odborní pracovníci VŠ (ostatní zamestnanci ²)	8	0	8	0	1	8	8.42	0	3
Odborní pracovníci ÚS	10	3	7	0	0	10	7.93	1.6	0
Ostatní pracovníci	1	1	0	0	0	1	1	0	0

¹ odměňovaní podľa 553/2003 Z.z., příloha č. 5

² odměňovaní podľa 553/2003 Z.z., příloha č. 3 a č. 4

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2025 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

F – fyzický stav zamestnancov k 31.12.2025 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

P – celoročný priemerný prepočítaný počet zamestnancov

T – celoročný priemerný prepočítaný počet riešiteľov projektov

O – celoročný priemerný prepočítaný počet obslužného personálu podieľajúceho sa na riešení projektov (technikov, laborantov, projektových manažérov a pod.) mimo zamestnancov v administratíve, správe a údržbe budov, upratovačiek, vodičov a pod.

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2025)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	13	51	4	4	12	37	14
Ženy	1	12	0	0	1	6	5

Tabuľka 1c Štruktúra pracovníkov podľa veku a rodu, ktorí sú riešiteľmi projektov

Veková štruktúra (roky)	< 31		31-35		36-40		41-45		46-50		51-55		56-60		61-65		> 65	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Muži	4	2.1	4	3.5	7	6.3	12	9.3	11	7.5	3	2.1	2	1.5	5	5.0	22	18.4
Ženy	2	0.5	1	0.2	4	2.5	4	3.5	0	0.0	0	0.0	0	0.0	0	0.0	3	2.2
Spolu	6	2.6	5	3.7	11	8.8	16	12.8	11	7.5	3	2.1	2	1.5	5	5.0	25	20.6

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2025

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov

Muži	53.3	53.6	53.0
Ženy	47.9	46.1	44.4
Spolu	51.8	52.4	51.5

1.3. Iné dôležité informácie k základným údajom o organizácii a zmeny za posledné obdobie (v zameraní, v personálnej štruktúre a pod.)

Vedenie ústavu sa stretáva s predstaviteľmi oddelení a internými členmi Vedeckej rady na pravidelných mesačných neformálnych stretnutiach (tretia streda v mesiaci), tzv. **kolégiách**. Ich úlohou je informovať o aktuálnych záležitostiach, ktoré sa dejú na úrovni ústavu a oddelení.

2. Vedecko-výskumná činnosť – projekty, výsledky

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2025

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty VEGA	15	3	39160	38707	24704	20636	-	3568
2. Projekty APVV	13	10	-	-	82919	81955	-	33417
3. Projekty EŠIF	0	0	-	-	-	-	-	-
4. Projekty SASPRO	2	0	-	-	-	-	-	-
5. Projekty IMPULZ	2	0	-	-	-	-	-	-
6. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	2	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2025

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2025	-	0	0
2. Projekty výziev EŠIF podané r. 2025	Bratislava	0	0
	Regióny	0	0

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2025

Tabuľka 2c Medzinárodné projekty riešené v roku 2025

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1a. Projekty Horizont 2020	0	0	-	-	-	-	-	-
1b. Projekty Horizont Európa	2	0	-	-	-	10840	-	-
2. Projekty ERA.NET, ESA, JRP	1	0	25000	25000	-	-	-	-
3. Projekty COST	1	1	-	-	-	-	-	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	1	-	-	-	-	-	-
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Projekty Mobility, Mobility Basic, Open Mobility a Mobility Visit	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	0	0	-	-	-	-	-	-
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	-	-	-	-	-	-
9. Podpora excelentného výskumu: SAS-UPJŠ ERC Visiting Fellowship Grants, Seal of Excellence, TANDEM	0	0	-	-	-	-	-	-
10. Iné projekty	0	2	-	-	-	-	-	17103

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2025

Tabuľka 2d Počet projektov Horizont Európa v roku 2025

	A	B
Počet podaných projektov I. pilier (Excelentná veda: MSCA, ERC, RI)	0	0
Počet podaných projektov II. pilier (klastre 1-6)	0	0
Počet podaných projektov III. pilier (EIC, EIT)	0	0
Počet podaných projektov Widera (Teaming, Twinning, Hop On Facility ...)	0	0

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe A-2.

2.2.3. Zámery na čerpanie Európskych štrukturálnych a investičných fondov v ďalších výzvach

Plánujeme priame aj nepriame zapojenie do nasledovných výziev z harmonogramu výziev na rok 2026:

<li align=justify>?<li align=justify>?

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2025

Slúži aj na výber výsledkov do výročnej správy SAV. Každý výsledok má byť charakterizovaný stručným, všeobecne zrozumiteľným popisom – maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF. Nadpis by mal vystihnúť prínos a význam výsledku – podľa možnosti by nemal byť zredukovaný na názov/nadpis publikačného výstupu.

2.3.1. Výsledky na báze základného výskumu

Názov: Optimalizácia perovskitových solárnych článkov prostredníctvom kombinovanej chemickej a štrukturálnej pasivácie

Autori: Naďa Mrkývková a kol. (APVV-21-0297)

Abstrakt: Zamerali sme sa na vývoj a porovnanie rôznych stratégií pasivácie defektov v perovskitových solárnych článkoch s cieľom zvýšiť ich účinnosť a dlhodobú stabilitu. Pre tento účel boli perovskitové vrstvy syntetizované viacerými metódami – či už pomocou bežnej mokrej depozície, alebo menej častou vákouovou depozíciou alebo aj depozíciou pomocou pulzného laseru. Skúmali sme rôzne chemické prístupy, ktoré potláčajú neradiatívnu rekombináciu a zlepšujú transport náboja. Skúmali sme vplyv draselných solí, ktoré efektívne znižujú hustotu defektov bez narušenia kryštálovej štruktúry, čo viedlo k zvýšenej fotoluminiscencii a zvýšeniu napätia naprázno (VOC). Ďalej sme realizovali dopovanie cérom ako zástupcom vzácnych zemín, ktoré zlepšilo kvantový výťažok fotoluminiscencie a zachovalo preferovanú kryštalografickú orientáciu, čím sa potvrdila možnosť cielenej úpravy optoelektronických vlastností perovskitu prostredníctvom kontrolovaného dopovania. Dopĺňujúco sme použili molekulovú pasiváciu pomocou tienových kationov, ktoré chemicky „zaceľujú“ defekty a vytvárajú stabilné 2D/3D heteroštruktúry s vyšším VOC a činiteľom plnenia (tzv. fill factor). Nakoniec sme pomocou pulznej laserovej depozície bez rozpúšťadiel pripravili orientované 2D vrstvy typu (PEA)₂PbI₄, ktoré poskytujú robustné rozhrania pre dlhodobú stabilitu. Tieto výsledky spoločne potvrdzujú synergický účinok kombinovanej objemovej a povrchovej pasivácie ako účinnej stratégie pre optimalizáciu perovskitových solárnych článkov.

Obr. Schématické znázornenie dvoch použitých pasivačných stratégií s molekulami na báze

tiofénových molekúl TMA? (vľavo) a TEA? (vpravo). BP (bulk passivation) a SP (surface passivation) označujú pasiváciu bulku, tj. objemu perovskitu a pasiváciu povrchu za vytvorenia 2D perovskitu.

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Vladimir Held, Nada Mrkyvkova, Yuriy Halahovets, Peter Nádaždy, Karol Vegso, Aleš Vlk, Martin Ledinský, Andrei Chumakov, Matthias Schwartzkopf, Frank Schreiber, and Peter Siffalovic: KCl-Mediated Defect Passivation in Vapor-Deposited Perovskites. ACS Appl. Mater. Interfaces 2025, 17, 30, 43877–43884.

DOI: 10.1021/acsami.5c09426

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Junia S. Solomon, Nada Mrkyvkova, Vojtěch Kliner, Tatiana Soto-Montero, Ismael Fernandez-Guillen, Martin Ledinský, Pablo P. Boix, Peter Siffalovic & Monica Morales-Masis: Oriented 2D Ruddlesden-Popper metal halides by pulsed laser deposition. npj 2D Mater Appl 2025, 9, 50.

DOI: <https://doi.org/10.1038/s41699-025-00571-3>

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Dmytro Vorontsov, Martin Ledinsky?, Ales? Vlk, Robert Hlavác?, Lucie Landová, Tereza Kos?utová, Karel Knížek, Anna Fuc?íková, Nada Mrkyvkova, Peter Siffalovic, and Jan Valenta: Photoluminescence Quantum Yield Enhancement of FAPbBr₃ Thin Films via Ce Doping. J. Phys. Chem. C 2025, 129, 14190–14195.

DOI: 10.1021/acs.jpcc.5c03090

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G. Pica, R. Montecucco, A. Zanetta, A. Oranskaia, F. Faini, L. Pancini, N. Mrkyvkova, P. Siffalovic, P. Dally, V. Pirota, M. Ledinsky, M. De Bastiani, S. De Wolf, F. Doria, U. Schwingenschlögl, G. Grancini: Unraveling Bulk versus Surface Passivation Effects in Highly Efficient p-i-n Perovskite Solar Cells Using Thiophene-Based Cations. Solar RRL 2024, 8, 2300681.

DOI: 10.1002/solr.202300681

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V. Held, N. Mrkyvkova, Y. Halahovets, P. Nádaždy, K. Vegso, A. Vlk, M. Ledinsky?, M. Jergel, S. Bernstorff, J. Keckes, F. Schreiber, and P. Siffalovic: Evolution of Defects, Morphology, and Strain during FAMAPbI₃ Perovskite Vacuum Deposition: Insights from In Situ Photoluminescence and X-ray Scattering. ACS Applied Materials & Interfaces 2024, 16, 35723.

DOI: 10.1021/acsami.4c04095

2.3.2. Výsledky aplikačného typu

Názov: Nová metóda na posúdenie vplyvu prítomnosti defektných stavov v aktívnej vrstve na vlastnosti solárneho článku

Autori: Katarína Gmucová, Vojtech Nádaždy (VEGA -2/0165/22, APVV-22-0132)

Abstrakt: V posledných rokoch sa pozornosť materiálových vedcov v oblasti perovskitových solárnych článkov sústredila na koncept „tolerancie defektov“, ktorý označuje schopnosť materiálu udržať vysokú účinnosť aj napriek prítomnosti štruktúrnych alebo chemických defektov. Pre funkčnosť a využiteľnosť solárnych článkov v praxi je preto nevyhnutné pochopiť vplyv defektných stavov v zakázanom páse polovodiča na transport náboja, na čo sme úspešne využili nami zavedenú impedančnú spektroskopiu s energetickým rozlíšením (ER-EIS). S cieľom lepšieho pochopenia tohto vplyvu sme porovnali povrchovú a objemovú hustotu defektných stavov s tangensom strát na frekvencii, kde redoxné reakcie určujú reálnu časť impedancie. Toto porovnanie ukázalo, že heterogenita elektrónovej štruktúry naprieč tenkou vrstvou, ktorá sa prejavuje ako vyššia povrchová hustota stavov, vedie k zlyhaniu „tolerancie defektov“. Táto nami navrhnutá metóda, ktorá je rýchla a efektívna, má potenciál pri hľadaní nových materiálov s „toleranciou defektov“ a účinných technologických postupov na premenu slnečnej energie na elektrinu v praxi.

Článok v časopise Small Methods, venovaný tejto problematike, bol editormi zaradený aj do

špeciálnej virtuálnej kolekcie „Celebrating Excellence in the Advanced Materials Family: Women in Materials Science“, obsahujúcej vybrané články publikované vo viacerých časopisoch z portfólia rodín časopisov Advanced Materials a Small.

Obr. Vzťah medzi objemovou a povrchovou hustotou stavov v tenkej vrstve polovodiča a tangensom stratového uhla: vľavo zobrazenie na energetickej škále, vpravo grafická reprezentácia poskytujúca informáciu o tom, či stavy v zakázanom páse spĺňajú kritérium pre materiály tolerantné voči defektom.

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K. Gmucová, V. Nádaždy, “A Relationship Between Semiconducting Thin Film's Electronic Structure Heterogeneity and Defect Tolerance,” Small Methods 2025, 9, 2401231. (IF 9.1) <https://doi.org/10.1002/smt.202401231>

2.3.3. Výsledky na báze medzinárodnej spolupráce

Názov: The future of secure communications: device independence in quantum key distribution

Autor: Seyed Arash Ghoreishi a kol. (R4 projekt QENTAPP č. 09103-03-V04-00777)

Partneri projektu: University of Gdansk (Polsko), Masaryk University Brno (Česko), ETH Zurich (Switzerland), University of Bari (Italy), Universidad de Concepción (Chile)

Abstrakt: In the ever-evolving landscape of quantum cryptography, Device-independent Quantum Key Distribution (DI-QKD) stands out for its unique approach to ensuring security based not on the trustworthiness of the devices but on nonlocal correlations. Beginning with a contextual understanding of modern cryptographic security and the limitations of standard quantum key distribution methods, this review explores the pivotal role of nonclassicality and the challenges posed by various experimental loopholes for DI-QKD. Various protocols, security against individual, collective and coherent attacks, and the concept of self-testing are also examined, as well as the entropy accumulation theorem, and additional mathematical methods in formulating advanced security proofs. In addition, the burgeoning field of semi-device-independent models (measurement DI-QKD, Receiver DI-QKD, and One-sided DI-QKD) is also analyzed. The practical aspects are discussed through a detailed overview of experimental progress and the open challenges towards the commercial deployment in the future of secure communications.

- Seyed Arash Ghoreishi, Giovanni Scala, Renato Renner, Letícia Lira Tacca, Jan Bouda, Stephen Patrick Walborn, Marcin Pawłowski: The future of secure communications: Device independence in quantum key distribution, Physics Reports, Volume 1149, 16 December 2025, Pages 1-97

Ďalšie prihlásené výsledky:

Názov: Universal validity of the second law of information thermodynamics

Autori: Mohammad Hamed Mohammady a kol. (CVKI)

Publikácia: Kinagawa, S., Mohammady, M.H., Sakai, K., Kato, K., Buscemi, F., Universal validity of the second law of information thermodynamics, Npj Quantum Information, 11(1), 18 2025.

Názov: Ratchet efekt v kanálikoch s pohyblivými pružnými stenami

Autor: Pavol Kalinay (OKFS)

Publikácie: P. Kalinay: Effective dynamics of a particle diffusing in time-dependent confinement, Phys. Rev. E 111, 014117 (2025), P. Kalinay: Rocking ratchet revisited via the Stratonovich formula, Phys. Rev. E 112, 064123 (2025)

Názov: Optimalizácia kvantových algoritmov

Autor: Martin Plesch a kol. (OKFS)

Publikácie: Meta-optimization of resources on quantum computers, IA Mohammad, M Pivoluska, M Plesch, Scientific Reports 14 (1), 10312 (2024), Harmonic oscillator based particle swarm optimization, Y Chernyak, IA Mohammad, N Masnicak, M Pivoluska, M Plesch, PloS one 20 (6), e0326173 (2025), HOPSO: A Robust Classical Optimizer for VQE, I A Mohammad, Y Chernyak, M Plesch, arXiv: 2508.13651 (2025), Minimum measurements quantum protocol for band structure calculation, M Krejčí, L Krejčí, IA Mohammad, M Plesch, M Friák, arXiv:2511.04389 (2025)

Názov: Aká je reálna hodnota pomeru $R = \frac{K+K-}{K_0L K_0S}$?

Autori: Andrej Liptaj a kol. (OTF)

Publikácia: DUBNIČKA, Stanislav** - DUBNIČKOVÁ, A. Z. - HOLKA, Lukáš* - LIPTAJ, Andrej**. What is the real value of the ratio $R = \frac{k+K-}{KL_0 KS_0}$? In Physical Review D, 2024, vol. 110 no. 5, art. no. 054019.

Názov: Predikcia nových štruktúr pentoxidov/oxidov d-prechodných kovov obohatených kyslíkom a ich fyzikálno-chemická identita z prvých princípov.

Autori: Kamil Tokár a kol. (OTF)

Publikácie: Bujdák, R. - Derzsi, M. - Tokár, K., Identity of Oxygen-Rich Nickel Oxides as Oxosuperoxides and Oxoperoxides and Their Heterostructures. In Inorganic Chemistry, 2025, vol. 64, no. 30, p. 15402-15412, Fabušová, D. - Derzsi, M. - Tokár, K., Metal-metal interactions in an open d-shell system with cuprite structure. In Chemical Communication, 2025, vol. 61, no. 77, p. 14939-14942.

2.4. Publikačná činnosť (zoznam je uvedený v prílohe A-3)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2025/ doplnky z r. 2024
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	0 / 0
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	0 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	0 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	0 / 0
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	0 / 0
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	0 / 0
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	0 / 0
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	100 / 5
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADN B)	22 / 0
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	0 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	9 / 0
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	0 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	2 / 0
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	10 / 0
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	0 / 0
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	0
18. Ostatné vydané periodiká	0
19. Zostavovateľské práce knižného charakteru (FAI)	3 / 0
20. Preklady vedeckých a odborných textov (EAJ)	0 / 0
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	0 / 0
22. Recenzie v časopisoch a zborníkoch (EDI)	0 / 0

Evidujú sa len tie práce zamestnancov a doktorandov, v ktorých je uvedená afiliácia k organizácii

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu	Q1	Q2	Q3	Q4	Spolu
Podľa IF z r. 2024 (zdroj JCR) <i>Počet článkov / doplnky</i>	47 / 0	39 / 5	20 / 0	1 / 0	107 / 5
Podľa SJR z r. 2024 (zdroj Scimago) <i>Počet článkov / doplnky</i>	56 / 3	43 / 2	7 / 0	14 / 0	120 / 5

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2024/ doplnky z r. 2023
Citácie vo WOS (1.1, 2.1)	3508 / 6
Citácie v SCOPUS (1.2, 2.2)	396 / 0
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	2 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	
Prednášky a vývesky na národných vedeckých podujatiach	

2.6. Vyžiadané prednášky

Ak boli príspevky publikované, sú súčasťou prílohy A-3, kategória (AFC, AFD, AFE, AFF, AFG, AFH)

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2025

2.7.1. Vynálezy, na ktoré bol v roku 2025 udelený patent

a) na Slovensku

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2025

a) na Slovensku

b) v iných krajinách ako prioritná prihláška

c) PCT

d) EP

e) v iných krajinách v rámci tzv. národnej fázy po PCT, resp. po validácii EP

2.7.3. Úžitkové vzory na Slovensku

a) prihlásené v roku 2025

b) udelené v roku 2025

2.7.4. Realizované vynálezy

a) predané patenty resp. prihlášky vynálezov (v prípade úplnej zmeny majiteľa patentu)

b) predané licencie (v prípade že majiteľom ostáva organizácia SAV)

Finančný prínos pre organizáciu SAV v roku 2025 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

2.8. Účasť expertov na hodnotení národných projektov (APVV, VEGA a iných)

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Bartoš Erik	VEGA	1
Jergel Matej	VEGA	1
Nádaždy Vojtech	VEGA	2

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 1

2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet vypracovaných recenzií na vedecké monografie, vedecké štúdie a zborníky

Meno pracovníka	Ved. monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Bartoš Erik	0	0	1	0	0	0	0
Butvinová Beata	0	0	1	0	0	0	1
Gendiar Andrej	0	0	5	0	0	0	0
Genzor Jozef	0	0	1	0	0	0	0
Gmucová Katarína	0	0	4	0	0	0	0
Hvizdošová Annušová Adriana	0	0	5	0	0	0	0
Ivančo Ján	0	0	1	0	0	0	0
Jergel Matej	0	0	7	0	0	0	0

Kalinay Pavol	0	0	1	0	0	0	0
Luby Štefan	0	0	1	0	0	0	0
Majková Eva	0	0	6	0	0	0	0
Mohammad Ijaz Ahamed	0	0	1	0	0	0	0
Repko Anton	0	0	1	0	0	0	0
Švec Peter	0	0	2	0	0	0	0
Spolu	0	0	37	0	0	0	1

2.11. Iné informácie k vedecko-výskumnej činnosti.

Na ústave beží niekoľko vlastných projektových schém. Aktivitu úspešných štipendistov ako aj prehľad ich dosiahnutých výsledkov sú zverejňované na webstránke organizácie v časti „Veda a výskum“.

Bežiacie programy:

IP SAS mobility program: Cieľom programu je podpora strednodobých pobytov zamestnancov alebo hostí FÚ SAV, v. v. i. v dĺžke trvania 1 — 4 mesiacov.

IP SAS interships program: Cieľom programu je podpora krátkodobých študentských stáží na FÚ SAV, v. v. i. v celkovej dĺžke minimálne 40 hodín rozvrhnutých ľubovoľným spôsobom počas maximálne 6 mesiacov v danom kalendárnom roku.

IP SAS fellow štipendium: Štipendium je určené na podporu vytvorenia dočasných výskumných pozícií pre excelentných výskumníkov vo fáze kariéry R2 alebo R3.

Zoznam úspešných stážistov:

<li align=justify>?

3. Medzinárodná vedecká spolupráca

3.1. Medzinárodné vedecké podujatia

3.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2025 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

3KK 2025 – Trojkraľová konferencia 2025, Brno, Česko, 40 účastníkov, 03.01.-03.01.2025

Tradičné neformálne stretnutie českých a slovenských mladých fyzikov.

ISMANAM 2025 – 29th International Symposium on Metastable, Amorphous and Nanostructured Materials, Bratislava, Slovensko, 140 účastníkov, 22.06.-27.06.2025

The International Symposium on Metastable, Amorphous, and Nanostructured Materials (ISMANAM) was established by Prof. Alain Reza Yavari to facilitate the exchange of knowledge on various types of metastable materials. Since its inception in 1994, ISMANAM has been held annually and served as a premier platform for sharing the latest knowledge on metastable, amorphous and nanostructured materials produced through various advanced techniques such as rapid cooling, mechanical alloying, thin-film deposition and many others. As interest in metastable materials continued to expand, ISMANAM remains at the forefront of this dynamic field, promoting cutting-edge research and facilitating connections between academia and industry. Over the years, ISMANAM has grown in both scope and participation. It has brought together leading researchers, industry experts, and emerging scientists, fostering collaboration and innovation in the field. The symposium has traveled to various notable locations all around the globe, allowing for a rich exchange of ideas and advancements in materials science. The ISMANAM 29 (2025) symposium attempts to offer a dynamic program featuring plenary, keynote and invited lectures, oral presentations and poster sessions supplemented by diverse social activities.

APCOM 2025 – Applied Physics of Condensed Matter, Štrbské Pleso, Slovensko, 25.06.-27.06.2025

CEQIP 2025 – Central European Quantum Information Processing, Smolenice, Slovensko, 30.06.-03.07.2025

ISTROS 2025 – Isospin, STructure, Reactions and energy Of Symmetry, Častá-Papiernička, Slovensko, 50 účastníkov, 12.10.-18.10.2025

Isospin, STructure, Reactions and energy Of Symmetry – experimental and theoretical aspects of physics of exotic nuclei and states of nuclear matter.

SURFINT-SREN IX – Progress in Applied Surface, Interface and Thin Film Science, Smolenice, Slovensko, 18.11.-20.11.2025

The main goal of the conference is to contribute to new knowledge in surface, interface, ultra-thin films and very-thin films science of inorganic and organic materials by the most rapid interactive manner - by direct communication among scientists of corresponding research fields. The list of topics indicates that conference interests cover the development of basic theoretical physical and chemical principles and performance of surfaces-, thin films-, and interface-related procedures, and corresponding experimental research on atomic scale. Topical results are applied at development of new inventive industrial equipments needed for investigation of electrical, optical, and structural properties, and other parameters of atomic-size research objects. The conference range spreads, from physical point of view, from fundamental research done on sub-atomic and quantum level to production of devices built on new physical principles. The conference topics include also

presentation of principally new devices in following fields: solar cells, liquid crystal displays, high-temperature superconductivity, and sensors. During the event, special attention will be given to evaluation of scientific and technical quality of works prepared by PhD students, to deep ecological meaning of solar cell energy production, and to exhibitions of companies.

3.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2026 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

3.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 3a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Báčová Silvia	0	0	1
Brunner Róbert	0	0	1
Gejdoš Janotová Irena	0	0	1
Hovorková Radka	0	1	0
Janičkovič Dušan	0	0	1
Luby Štefan	1	0	0
Maťko Igor	0	1	0
Pinčík Emil	0	0	1
Plevachuk Yuriy	1	0	0
Sedlák Matúš	0	0	1
Sedlák Michal	0	0	1
Švec Peter	1	0	2
Švec Jr. Peter	0	1	0
Ziman Mário	0	0	1
Spolu	3	3	10

3.2. Členstvo a funkcie v medzinárodných orgánoch

3.2.1. Členstvo a funkcie v medzinárodných vedeckých spoločnostiach, úniách a národných komitétach SR

Prof. RNDr. Vladimír Bužek, DrSc.

American Physical Society (funkcia: člen)
 Institute of Physics (funkcia: fellow)
 Optical Society of America (funkcia: fellow)
 Rakúska akadémia vied (funkcia: zahraničný člen)

Mgr. Peter Filip, PhD.

European Physical Society (funkcia: individuálny člen)

Ing. Ján Ivančo, DrSc.

American Chemical Society (funkcia: člen)
 Polish Synchrotron Radiation Society (funkcia: člen korespondent)

Ing. Matej Jergel, DrSc.

Česko-Slovenská kryštalografická spoločnosť (funkcia: člen, 1996-2002 člen Rady)
European Academy of Sciences and Arts (funkcia: člen)
Národný komitét IUPAP (funkcia: člen)

Mgr. Ivan Klbik

Society for Cryobiology (funkcia: individuálny člen)

prof. Ing. Štefan Luby, DrSc.

European Academy of Sciences and Arts (funkcia: Honorary Senator)
Európska akadémia vied a umení (funkcia: vedúci slovenskej delegácie)
Identifikačný kód Slovenska (funkcia: gestor za EASA)
International Union of Vacuum Science, Technology and Applications, IUVSTA, Divízia nanometrových štruktúr (funkcia: národný reprezentant)
Medzinárodná nadácia S.T.E.P.S. Grécko - USA (funkcia: člen rady)

RNDr. Eva Majková, DrSc.

Academia Europea Scietiarum et Artium (funkcia: socius ordinarius)
International Union of Vacuum Science, Technology and Applications, IUVSTA, Divízia tenkých vrstiev (funkcia: národný reprezentant)
L'ORÉAL-UNESCO Pre ženy vo vede (funkcia: predsedníčka poroty)
Steering Committee v medzinárodnom M-ERANET programe (funkcia: členka)

RNDr. Igor Maťko, CSc.

Československá mikroskopická spoločnosť (funkcia: člen)

RNDr. Nad'a Mrkývková, PhD.

European Synchrotron and Free Electron Laser User Organisation (ESUO) (funkcia: národný delegát)

RNDr. Emil Pinčík, CSc.

International Committee of Analysis in Steel and Iron Industry - ICASI (funkcia: člen medzinárodného výboru)

doc. RNDr. Martin Plesch, PhD.

Medzinárodná federácia fyzikálnych súťaží (funkcia: prezident)
Medzinárodný turnaj mladých fyzikov (funkcia: prezident)
Medzinárodný výbor IJSO (funkcia: člen)

Ing. Mgr. Peter Staňo, PhD.

Japanese Physical Society (funkcia: člen)

prof. Ing. Ivan Štich, DrSc.

American Physical Society (funkcia: člen)

European Academy of Sciences and Arts (funkcia: člen)

Ing. Vladimír Štofanič, PhD.

IEEE-UFFC (funkcia: člen)

URSI (funkcia: člen)

Ing. Peter Švec, DrSc.

Československá mikroskopická spoločnosť (funkcia: člen)

Intl. Advisory Committee on Rapid Quenching (funkcia: member)

IUPAP (funkcia: vicechair, Commission C10 on Solid State Physics)

Ing. Peter Švec Jr., PhD.

Československá mikroskopická spoločnosť (funkcia: člen výboru)

European Microscopy Society (funkcia: člen)

Mgr. Martin Venhart, DrSc.

Subatomic physics evaluation section NSERC (Canada) (funkcia: člen)

The Nuclear Physics European Collaboration Committee (funkcia: člen)

3.3. Účast' expertov na hodnotení medzinárodných projektov (EÚ RP, ESF a iných)

Tabuľka 3b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Sedlák Matúš	NSERC Discovery Grant - EG19	1

3.4. Najvýznamnejšie prínosy MVTS ústavu vyplývajúce z mobility a riešenia medzinárodných projektov a iné informácie k medzinárodnej vedeckej spolupráci

Medzinárodná vedecká spolupráca je jedným z hlavných pilierov vedeckej práce na ústave, medzi najvýznamnejšie prínosy mobility patria všetky ocenené a prihlásené výsledky našich kolektívov popísané v časti 2.3, ktorá sa venuje najvýznamnejším získaným výsledkom.

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe A-5.

Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe A-2.

4. Aplikácia výsledkov výskumu v praxi

4.1. Výsledky výskumu organizácie aplikované v technologickej a všeobecnej spoločenskej praxi

4.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov/účel kontraktového výskumu: Termofyzikálna analýza betónových zmesí

Zadávatel' výskumného kontraktu: Považská cementáreň, a.s.,

Začiatok spolupráce: 2022

Ukončenie spolupráce: trvá

Finančný prínos pre organizáciu (€): 0

4.3. Iné formy aplikácie výsledkov výskumu a využitia odbornosti

Analýza štruktúry vzoriek hliníkových zliatin pomocou rtg. difrakčnej analýzy a elektrónovej mikroskopie pre f. c2i s. r. o. (www.c2i.com) kolektívom OFK pod vedením P. Šveca.

5. Doktorandské štúdium a pedagogická činnosť

5.1. Údaje o doktorandskom štúdiu

Tabuľka 5a Počet doktorandov v roku 2025

Forma	Počet k 31.12.2025				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2025					
							Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí				ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	
Denná zo zdrojov SAV	10	8	2	2	9	5	3	0	3	0	0	0
Denná z iných zdrojov	4	1	0	0	2	2	0	1	1	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0	0	0
Spolu	14	9	2	2	11	7	3	1	4	0	0	0
Z toho zahraničných	12	6	1	2	8	5	1	1	2	0	0	0
Súhrn	23		4		18		4		4		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.

Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v riadku „Súhrn“ vyjadruje celkový počet doktorandov (mužov a žien spolu), čiže je súčtom príslušných dvoch buniek z riadku „Spolu“. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2025 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.

Pod predčasným ukončením rozumieme ukončenie bez obhajoby dizertačnej práce pričom doktorand neabsolvoval celú štandardnú dĺžku štúdia. Pod neúspešným ukončením rozumieme ukončenie bez úspešnej obhajoby dizertačnej práce, pričom študent absolvoval celú štandardnú dĺžku štúdia.

5.2. Zmena formy doktorandského štúdia

Tabuľka 5b Počty preradení z dennej formy na externú a z externej na dennú

Pôvodná forma	Denná z prostriedkov SAV	Denná z prostriedkov SAV	Denná z iných zdrojov	Denná z iných zdrojov	Externá	Externá
Nová forma	Denná z iných zdrojov	Externá	Denná z prostriedkov SAV	Externá	Denná z prostriedkov SAV	Denná z iných zdrojov
Počet	0	0	0	0	0	0

5.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 5c Menný zoznam ukončených doktorandov v roku 2025 úspešnou obhajobou

Meno	Forma	Mesiace	Mesiace	Číslo a názov	Meno a	Fakulta

doktoranda	DŠ	rok nástupu na DŠ	rok obhajoby	študijného odboru	organizácia školiteľa	udeľujúca vedeckú hodnotu
Mgr. Lukáš Holka	interné štúdium hrazené z prostriedkov SAV	9 / 2021	9 / 2025	1160 fyzika	Mgr. Erik Bartoš PhD., Fyzikálny ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK
Mgr. Ijaz Ahamed Mohammad	interné štúdium hrazené z prostriedkov SAV	9 / 2021	6 / 2025	1160 fyzika	doc. RNDr. Martin Plesch PhD., Fyzikálny ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK
Mgr. Shima Sousani	interné štúdium hrazené z iných zdrojov	9 / 2020	8 / 2025	1160 fyzika	RNDr. Eva Majková DrSc., Fyzikálny ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK
Mgr. Daniel Truchan	interné štúdium hrazené z prostriedkov SAV	9 / 2021	11 / 2025	1160 fyzika	Dr. rer. nat. Peter Šiffalovič DrSc., Fyzikálny ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK

5.4. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou v nadštandardnej dĺžke štúdia

Tabuľka 5d Menný zoznam ukončených doktorandov v roku 2025 úspešnou obhajobou v nadštandardnej dĺžke štúdia

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu

5.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 5e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2025 (obhajoba leto 2025)	z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	z toho koľkí boli nejaký čas nezamestnaní

2	2	0	0	0

Číslo v prvom stĺpci musí byť súčtom čísel v stĺpcoch 2-4, pokiaľ je známe uplatnenie dočasne nezamestnaného absolventa/ky a bude zahrnutý do stĺpcov 2-4. Ak jeho/jej uplatnenie nie je známe, musí byť číslo v stĺpci 1 súčtom čísel v stĺpcoch 2-5

Zoznam interných a externých doktorandov je uvedený v prílohe A-1.

5.6. Medzinárodné doktorandské štúdium

Tabuľka 5f Počet študentov v medzinárodných programoch doktorandského štúdia a počet zahraničných doktorandov

Cotutelle	Co-direction	Iné	Zahranční doktorandi štátne občianstvo/počet
1	0	0	IND/12, PAK/2, BRA/1, ESP/1, HUN/1, CHN/1, IRN/1, MEX/1, RUS/1, USA/1

Zahranční doktorandi sú doktorandi v dennej alebo externej forme štúdia, ktorí sú občanmi iných krajín. Doktorandi školení v rámci Cotutelle alebo Co-direction sa do posledného stĺpca nezapočítavajú.

5.7. Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením VŠ

Tabuľka 5g Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

Názov študijného odboru (ŠO)	Číslo ŠO	Názov doktorandského študijného programu	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
fyzika	1160	Fyzika kondenzovaných látok a akustika	Fakulta matematiky, fyziky a informatiky UK
fyzika	1160	Fyzikálne inžinierstvo	Fakulta elektrotechniky a informatiky STU
fyzika	1160	Jadrová a subjadrová fyzika	Fakulta matematiky, fyziky a informatiky UK
fyzika	1160	Kvantová elektronika, optika a optická spektroskopia	Fakulta matematiky, fyziky a informatiky UK
fyzika	1160	Teoretická fyzika a matematická fyzika	Fakulta matematiky, fyziky a informatiky UK
chémia	1420	Jadrová chémia a rádioekológia	Prírodovedecká fakulta UK

Názov a číslo študijného odboru vyplňte/vyberte podľa aktuálne platného zoznamu študijných odborov <https://www.portalvs.sk/sk/studijne-odbory?from=menu1>. Názov doktorandského študijného programu v stĺpci 3 je potrebné vložiť ako voľný text.

Tabuľka 5h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnosť alebo vyšší kvalifikačný stupeň
Mgr. Erik Bartoš, PhD. (fyzika)	Prof. RNDr. Vladimír Bužek, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	
Ing. Vlastimil Boháč, CSc. (fyzikálne inžinierstvo)	prof. Ing. Ivan Štich, DrSc. (Fakulta prírodných vied UCM)	
Prof. RNDr. Vladimír Bužek, DrSc. (všeobecná fyzika a	Mgr. Martin Venhart, DrSc. (Trnavská univerzita v Trnave)	

matematická fyzika)		
RNDr. Stanislav Dubnička, DrSc. (všeobecná fyzika a matematická fyzika)		
RNDr. Stanislav Dubnička, DrSc. (jadrová a subjadrová fyzika)		
Mgr. Andrej Gendiar, PhD. (všeobecná fyzika a matematická fyzika)		
Mgr. Andrej Gendiar, PhD. (všeobecná fyzika a matematická fyzika)		
Ing. Štefan Gmuca, CSc. (jadrová a subjadrová fyzika)		
Ing. Matej Jergel, DrSc. (fyzika kondenzovaných látok a akustika)		
Ing. Matej Jergel, DrSc. (kvantová elektronika a optika)		
Ing. Matej Jergel, DrSc. (fyzikálne inžinierstvo)		
RNDr. Pavol Kalinay, CSc. (všeobecná fyzika a matematická fyzika)		
Ing. Ján Kliman, DrSc. (fyzika)		
Ing. Ján Kliman, DrSc. (jadrová a subjadrová fyzika)		
Ing. Ján Kliman, DrSc. (jadrová energetika)		
Ing. Ján Kliman, DrSc. (fyzikálne inžinierstvo)		
Ing. Ján Kliman, DrSc. (odbor v zahraničí)		
Dr. rer. nat. Ing. Andrej Liptaj, PhD. (fyzika)		
RNDr. Eva Majková, DrSc. (kvantová elektronika a optika)		
RNDr. Eva Majková, DrSc. (fyzikálne inžinierstvo)		
doc. RNDr. Martin Plesch, PhD. (teória vyučovania fyziky)		
RNDr. Ondrej Šauša, CSc. (jadrová chémia)		
Dr. rer. nat. Peter Šiffalovič, DrSc. (kvantová elektronika a optika)		
Ing. Peter Švec, DrSc. (všeobecná fyzika a matematická fyzika)		
Ing. Peter Švec, DrSc. (fyzika)		

kondenzovaných látok a akustika)		
Ing. Peter Švec, DrSc. (elektrotechnológie a materiály)		
Ing. Peter Švec, DrSc. (materiály)		
Ing. Peter Švec, DrSc. (fyzikálne inžinierstvo)		

5.8. Údaje o pedagogickej činnosti

Tabuľka 5i Prednášky a cvičenia vedené v roku 2025

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	4	0	0	0
Celkový počet hodín v r. 2025	33	0	0	0

Prehľad prednášateľov predmetov a vedúcich cvičení, s uvedením názvu predmetu, úväzku, katedry, fakulty, univerzity/vysokej školy je uvedený v prílohe A-4.

Tabuľka 5j Aktivity pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	3
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	9
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	2
4.	Počet školených doktorandov (aj pre iné inštitúcie)	2
5.	Počet oponovaných dizertačných a habilitačných prác	4
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	3
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	2
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	5
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	1

5.9. Iné dôležité informácie k pedagogickej činnosti

6. Zmluvná spolupráca s univerzitami/vysokými školami a inými subjektmi vedy a výskumu

Pozn.: Uvádzajte formy spolupráce a aktivity, ktoré nie sú uvedené v kapitolách 2, 3, 4, 5.

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Dokuz Eylul University Izmir, Turkey

Oblasť spolupráce: Termofyzikálne vlastnosti uhlíkových nanorúrok vyplňajúcich polymérne kompozity

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2016

Zhodnotenie: Meranie termofyzikálnych vlastností polymérnych kompozitov na báze HDPE a s vláknami alebo časticami uhlíkových nano štruktúr.

Názov univerzity/vysokej školy a fakulty: Drevárska fakulta TUZVO

Oblasť spolupráce: Progresívne prírodné izolačné materiály pre drevostavby - laboratórny a in-situ výskum

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2025

Zhodnotenie: Podali sme ďalší spoločný grant VEGA 1/0179/25 - Progresívne prírodné izolačné materiály pre drevostavby - laboratórny a in-situ výskum vlastností bol podaný na obdobie 2025-2028. V rámci spolupráce boli doteraz pomocou prechodových metód vyšetrené vlastnosti objemových drevín a drevených kompozitov vo forme OSBD dosiek. Kompozitné materiály boli vyrobené z drevenej štiepky drevín pomaranču, duba, a ich zmesi vo verzii vysokej a strednej hustoty. Ďalšie vzorky vo výskume boli vyrobené z materiálov masívneho dreva: céder, topol a jelša. Termofyzikálne vlastnosti boli vyšetrované pomocou impulznej a skokovej prechodovej metódy. Na vyhodnotenie boli použité modely zohľadňujúce okrajové rušivé efekty odvodu tepla z povrchu vzorky s presnou geometriou v tvare kvádra a doskový model s vplyvom efektu kontaktného tepelného odporu a tepelnej kapacity zdroja tepelného impulzu.

Názov univerzity/vysokej školy a fakulty: Fakulta matematiky, fyziky a informatiky UK

Oblasť spolupráce: Spolupráca laboratórií elektrostatických urýchľovačov

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2017

Zhodnotenie: V rámci spolupráce s MFF UK Bratislava a MTF STU Trnava (UVP CAMBO) sa uskutočnili prvé diskusie o spolupráci pri využití elektrostatických urýchľovačov na Slovensku. Cieľom tejto spolupráce je vymedziť špecifické úlohy riešené na jednotlivých pracoviskách, dohodnúť spoločné využitie dostupných zdrojov a zariadení a spolupráca pri riešení možných technických problémov.

Názov univerzity/vysokej školy a fakulty: Montanuniversitaet Leoben, Rakúsko

Oblasť spolupráce: experimentálne

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2011

Zhodnotenie: V rámci spolupráce sú vykonávané mikroštruktúrne analýzy vzoriek širšej triedy materiálov pomocou sofistikovaných metód elektrónovej mikroskopie (Cs korigovaná HRTEM a HRSTEM spojená s chemickou analýzou).

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Oblasť spolupráce: Katedra inžinierskej geológie

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2011

Zhodnotenie: Monitorovanie teplotno-vlhkostného režimu v tufovom masíve múzea sakálnych obydľí v Brhlovciach.

Názov univerzity/vysokej školy a fakulty: Slovenská technická univerzita v Bratislave

Oblasť spolupráce: Experimentálne a teoretické

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2010

Zhodnotenie: Spolupráca s Katedrou fyziky na FEI a Katedrou stavebnej fyziky na SF je v oblasti merania termofyzikálnych parametrov stavebných materiálov. Odborným zameraním sa kolektívy navzájom dopĺňajú a tým zabezpečujú požadovanú úroveň spolupráce.

Názov univerzity/vysokej školy a fakulty: Slovenská technická univerzita v Bratislave

Oblasť spolupráce: Ústav jadrového a fyzikálneho inžinierstva

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2011

Zhodnotenie: spolupráca pri odvodzovaní a testovaní modelov pre prechodové metódy na meranie termofyzikálnych vlastností látok

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.1.2. Spoločné pracoviská s inými organizáciami SAV

Názov organizácie: Fyzikálny ústav SAV, v. v. i.

Oblasť spolupráce: Progresívne prírodné izolačné materiály pre drevostavby - laboratórny a in-situ výskum

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2025

Zhodnotenie: Podali sme ďalší spoločný grant VEGA 1/0179/25 - Progresívne prírodné izolačné materiály pre drevostavby - laboratórny a in-situ výskum vlastností bol podaný na obdobie 2025-2028. V rámci spolupráce boli doteraz pomocou prechodových metód vyšetrené vlastnosti objemových drevín a drevených kompozitov vo forme OSBD dosiek. Kompozitné materiály boli vyrobené z drevenej štiepky drevín pomaranču, duba, a ich zmesi vo verzii vysokej a strednej hustoty. Ďalšie vzorky vo výskume boli vyrobené z materiálov masívneho dreva: céder, topol a jelša. Termofyzikálne vlastnosti boli vyšetrované pomocou impulznej a skokovej prechodovej metódy. Na vyhodnotenie boli použité modely zohľadňujúce okrajové rušivé efekty odvodu tepla z povrchu vzorky s presnou geometriou v tvare kvádra a doskový model s vplyvom efektu kontaktného tepelného odporu a tepelnej kapacity zdroja tepelného impulzu.

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.2. Spoločné pracoviská organizácie s inými inštitúciami mimo SAV a VŠ

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

Názov projektu: Monitorovanie teplotno- vlhkostného režimu veže katedrále sv. Martina v Bratislave

Agentúra:

číslo projektu:

Spolupracujúce inštitúcie: Arcibiskupský úrad, Bratislava

Koordinátor projektu:

Začiatok spolupráce: 2011

Zhodnotenie: Pripravujú sa spoločné projekty s Pamiatkovým úradom ktoré zabezpečia finančný efekt pre FÚ a zároveň umožnia nadviazať užšie kontakty s organizáciami zaoberajúcimi sa ochranou pamiatok a majiteľmi pamiatkových objektov. (kontakt FÚ: J. Hudec)

Názov projektu: Grant Nadácie ESET

Agentúra: ESET, spol. s r.o.

číslo projektu:

Spolupracujúce inštitúcie: ESET, spol. s r.o.

Koordinátor projektu: Martin Venhart, FÚ SAV, v. v. i.

Začiatok spolupráce: 2022

Zhodnotenie: Nadácia ESET sa rozhodla podporiť výskum skupiny M. Venharta v oblasti izotopov zlata s nepárnyh hmotnostným číslom. Urobila tak na základe dobrého hodnotenia návrhu ERC grantu. Cieľom podpory je vypracovanie nového návrhu ERC Advanced grantu. Podpora základného výskumu súkromnou spoločnosťou je v slovenských podmienkach pomerne výnimočný počin.

Názov projektu: Laboratórne merania termofyzikálnych vlastností hornín

Agentúra:

číslo projektu:

Spolupracujúce inštitúcie: Geologische Bundesanstalt Wien v spolupráci so Štátnym geologickým ústavom Dionýza Štúra

Koordinátor projektu:

Začiatok spolupráce: 2017

Zhodnotenie: Merania v rámci zákazky. Projekt má priniesť poznatky pre budovanie obnoviteľných zdrojov energie v zemskom podloží spôsobom plytkých geotermálnych vrtov. Štatisticky budú zmapované oblasti v strednej Európe.

Názov projektu: Monitorovanie teplotno-vlhkostného režimu pilierov kostola sv. Jakuba v Levoči

Agentúra:

číslo projektu:

Spolupracujúce inštitúcie: Katedra inžinierskej geológie, Univerzita Komenského, Bratislava

Koordinátor projektu:

Začiatok spolupráce: 2012

Zhodnotenie:

Názov projektu: Monitorovanie tuhnutia betónových zmesí

Agentúra:

číslo projektu:

Spolupracujúce inštitúcie: Technický a skúšobný ústav stavebný, n.o. Bratislava

Koordinátor projektu:

Začiatok spolupráce: 2010

Zhodnotenie: Pripravujú sa spoločné projekty ktoré zabezpečia finančný efekt pre FÚ a zároveň umožnia nadviazať užšie kontakty so stavebnými organizáciami. (kontakt FÚ: J. Hudec)

Názov projektu: Laboratórne merania termofyzikálnych vlastností hliníkovej peny.

Agentúra:

číslo projektu:

Spolupracujúce inštitúcie: Ústav materiálov a mechaniky strojov, SAV

Koordinátor projektu:

Začiatok spolupráce: 2017

Zhodnotenie: Podaný APVV projekt. Merania boli vykonané za účelom predbežne zhodnotiť prínos termofyzikálnych meraní pre spôsob aplikácie hliníkovej peny vyplnenej PCM pre možnosti uskladnenia teplenej energie.

Pozn.: uviesť konkrétne spoločné aj bilaterálne projekty na základe platnej zmluvy o spolupráci

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

7. Vedecko-organizačné a popularizačné aktivity

7.1. Vedecko-popularizačná činnosť

Tabuľka 7a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	24	tlač	2	TV	0
rozhlas	0	internet	3	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	5				

7.2. Vedecko-organizačná činnosť

Tabuľka 7b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
3KK 2025 – Trojkráľová konferencia 2025	medzinárodná	Brno, Česko	3.1.-3.1.2025	40
ISMANAM 2025 – 29th International Symposium on Metastable, Amorphous and Nanostructured Materials	medzinárodná	Bratislava, Slovensko	22.6.-27.6.2025	140
APCOM 2025 – Applied Physics of Condensed Matter	medzinárodná	Štrbské Pleso, Slovensko	25.6.-27.6.2025	-
CEQIP 2025 – Central European Quantum Information Processing	medzinárodná	Smolenice, Slovensko	30.6.-3.7.2025	-
ISTROS 2025 – Isospin, STructure, Reactions and energy Of Symmetry	medzinárodná	Častá-Papiernička, Slovensko	12.10.-18.10.2025	50
SURFINT-SREN IX – Progress in Applied Surface, Interface and Thin Film Science	medzinárodná	Smolenice, Slovensko	18.11.-20.11.2025	-

7.3. Účasť na výstavách

7.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 7c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Spolu			

7.5. Členstvo v redakčných radách časopisov

Ing. Vlastimil Boháč, CSc.

International Journal of Engineering and Allied Sciences (IJEAS) (funkcia: Editorial Board

Member)

Prof. RNDr. Vladimír Bužek, DrSc.

European Physical Journal D (funkcia: external advisor)

Journal of Modern Optics (funkcia: člen redakčnej rady)

RNDr. Stanislav Dubnička, DrSc.

MEDICUS (funkcia: člen red. rady)

prof. Ing. Štefan Luby, DrSc.

Contemporary Materials (funkcia: člen red. rady)

Obzory matematiky, fyziky a informatiky (funkcia: Člen red. rady)

RNDr. Nad'a Mrk'vková, PhD.

Československý časopis pro fyziku (funkcia: editor)

doc. RNDr. Martin Plesch, PhD.

Scientific Reports (funkcia: člen Editorial board)

Prof. Yuriy Plevachuk, DrSc.

Journal of Physical Studies (funkcia: associate editor)

Ing. Peter Švec, DrSc.

Journal of Materials Science and Technology (funkcia: člen redakčnej rady)

PAR - Pomiary-Automatyka-Robotyka (funkcia: člen programového výboru)

7.6. Činnosť v domácich vedeckých spoločnostiach

Mgr. Erik Bartoš, PhD.

Slovenská fyzikálna spoločnosť (funkcia: hospodár)

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Beata Butvinová, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Slovenská magnetická spoločnosť pri SVTS (funkcia: člen)

RNDr. Stanislav Dubnička, DrSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Ing. Štefan Gmuca, CSc.

Slovenská fyzikálna spoločnosť (funkcia: predseda)

RNDr. Katarína Gmucová, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Mgr. Andrej Herzáň, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Monika Hofbauerová, PhD.

Slovenská chemická spoločnosť (funkcia: člen)

Ing. Matej Jergel, DrSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

Slovenská fyzikálna spoločnosť (funkcia: člen)

Učená spoločnosť Slovenska (funkcia: riadny člen)

RNDr. Pavol Kalinay, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Marián Krajčí, DrSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Dr. rer. nat. Ing. Andrej Liptaj, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

prof. Ing. Štefan Luby, DrSc.

Učená spoločnosť Slovenska (funkcia: emeritný člen)

RNDr. Eva Majková, DrSc.

Učená spoločnosť Slovenska (funkcia: emeritný člen)

doc. RNDr. Martin Plesch, PhD.

Odborná komisia Turnaja mladých fyzikov (funkcia: podpredseda)

Dr. rer. nat. Peter Šiffalovič, DrSc.

Učená spoločnosť Slovenska (funkcia: riadny člen)

prof. Ing. Ivan Štich, DrSc.

Učená spoločnosť Slovenska (funkcia: riadny člen)

Ing. Peter Švec, DrSc.

Učená spoločnosť Slovenska (funkcia: riadny člen)

Mgr. Martin Venhart, DrSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

7.7. Iné dôležité informácie o vedecko-organizačných a popularizačných aktivitách

8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné inštitúcie

8.1. Členstvo v poradných zboroch vlády SR, Národnej rady SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

Tabuľka 8a Členstvo v poradných zboroch Národnej rady SR, vlády SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

Meno pracovníka	Názov orgánu	Funkcia
Mgr. Erik Bartoš, PhD.	Výbor pre koordináciu spolupráce so SÚJV v Dubne	člen
Mgr. Andrej Herzáň, PhD.	Výbor pre spoluprácu SR s CERN	člen
	ISOLDE collaboration committee (ISCC)	zástupca SR
RNDr. Eva Majková, DrSc.	Komisia pre návrh štátnych vyznamenaní	člen
	Stála komisia Rady vlády pre vedu, techniku a inovácie	člen
	pracovná skupina pre hodnotenie OP Val	člen
Ing. Peter Švec, DrSc.	Atestačná komisia STU	člen
Mgr. Martin Venhart, DrSc.	Výbor pre spoluprácu SR s CERN	podpredseda Výboru
	Výbor pre koordináciu spolupráce so SÚJV v Dubne	člen
	Priemyselná rada FEI STU	člen
	Subatomic Physics Evaluation Section NSERC (Kanada)	člen

8.2. Expertízna činnosť a iné služby pre štátnu správu a samosprávy

Názov expertízy: Slovensko 2040

Adresát expertízy: Vláda SR

Spracoval: RNDr. Katarína Gmucová, CSc.

Stručný opis: členka pracovnej skupiny

8.3. Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Tabuľka 8b Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Meno pracovníka	Názov orgánu	Funkcia

8.4. Prehľad aktuálnych spoločenských problémov, ktoré riešilo pracovisko v spolupráci s Kanceláriou prezidenta SR, s vládnymi a parlamentnými orgánmi alebo pre ich potrebu

9. Aktivity v orgánoch SAV

9.1. Členstvo vo Výbore Snemu SAV

RNDr. Katarína Gmucová, CSc.

- členka
- predsedníčka I. komory

9.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

Mgr. Martin Venhart, DrSc.

- Člen Vedeckej rady SAV
- Podpredseda SAV pre 1. oddelenie vied
- Predseda SAV

9.3. Členstvo v komisiách SAV

RNDr. Katarína Gmucová, CSc.

- Bytová komisia SAV (členka)
- Komisia pre transformáciu SAV (členka)
- Komisia SAV pre hodnotenie vedy (členka)
- Legislatívna komisia SAV (členka)

Ing. Matej Jergel, DrSc.

- Komisia SAV pre vyhodnocovanie medzinárodných projektov (člen)

Ing. Peter Švec, DrSc.

- Komisia pre posudzovanie vedeckej kvalifikácie (člen)
- Komisia SAV pre rovnosť (člen)

Mgr. Martin Venhart, DrSc.

- Komisia pre stratégiu rozvoja SAV (člen)
- Komisia pre transformáciu SAV (člen)
- Komisia SAV pre ekonomické otázky (člen)
- Škodová komisia SAV (člen)

9.4. Členstvo v orgánoch VEGA

Mgr. Andrej Gendiar, PhD.

- Komisia č. 1, všeobecná fyzika a matematická fyzika (člen)

RNDr. Igor Mat'ko, CSc.

- Komisia č. 1 pre matematické vedy, počítačové a informatické vedy a fyzikálne vedy (člen)

Ing. Peter Švec, DrSc.

- Komisia č. 1 pre matematické vedy, počítačové a informatické vedy a fyzikálne vedy (člen)

10. Starostlivosť o ľudské zdroje, rodovú rovnosť, pracovné a sociálne podmienky zamestnancov a uplatňovanie ich práv

10.1. Uplatňovanie princípov stratégie ľudských zdrojov HRS4R

Uveďte stručnú charakteristiku a hodnotenie aktivít v oblasti HRS4R.

10.2. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

Stručné hodnotenie stavu uplatňovania princípov rodovej rovnosti v organizácii, súvisiace aktivity a opatrenia, návrhy na aktualizáciu Plánu rodovej rovnosti SAV.

10.2.1. Rodová skladba hlavných riešiteľov (vedúcich) projektov

Prípadný stručný komentár ako úvod (nepovinný).

Tabuľka 10a Rodová skladba hlavných riešiteľov domácich projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty VEGA	15	15	0	3	2	1
2. Projekty APVV	13	10	3	10	9	1
3. Projekty EŠIF	0	0	0	0	0	0
4. Projekty SASPRO	2	2	0	0	0	0
5. Projekty IMPULZ	2	2	0	0	0	0
6. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	2	2	0	0	0	0

Tabuľka 10b Rodová skladba hlavných riešiteľov medzinárodných projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu	Organizácia SAV je zmluvným partnerom

	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1a. Projekty Horizont 2020	0	0	0	0	0	0
1b. Projekty Horizont Európa	2	2	0	0	0	0
2. Projekty ERA.NET, ESA, JRP	1	1	0	0	0	0
3. Projekty COST	1	1	0	1	1	0
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	1	0	1	1	0
5. Projekty v rámci medzivládnych dohôd	0	0	0	0	0	0
6. Projekty Mobility, Mobility Basic, Open Mobility a Mobility Visit	0	0	0	0	0	0
7. Bilaterálne projekty ostatné	0	0	0	0	0	0
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	0	0	0	0
9. Podpora excelentného výskumu: SAS-UPJŠ ERC Visiting Fellowship Grants, Seal of Excellence, TANDEM	0	0	0	0	0	0
10. Iné projekty	0	0	0	2	2	0

10.2.2. Výskum zameraný na rodovú problematiku

Uveďte stručné, základné informácie o projektoch orientovaných na rodovú problematiku, ak organizácia takýto výskum realizuje. Informácie o financovaní a výsledkoch takýchto projektov sa nachádzajú v kapitole 2 a v prílohe A-3.

10.3. Informácie o pracovných a sociálnych podmienkach zamestnancov a uplatňovaní ich práv

Uveďte stručné, základné informácie k problematike.

11. Orgány v. v. i., ich skladba a činnosť, štrukturálne, organizačné a právne zmeny v organizácii

11.1. Správna rada - zloženie a základná informácia o činnosti

Zloženie:

- doc. Mgr. Mário Ziman, PhD. (predseda)
- Mgr. Andrej Herzáň, PhD.
- Ing. Matej Jergel, DrSc.
- Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.
- Ing. Peter Švec, DrSc.

11.2. Vedecká rada - zloženie a základná informácia o činnosti

Zloženie:

- Mgr. Erik Bartoš, PhD. (predseda)
- RNDr. Nad'a Mrk'ývková, PhD. (podpredsedkyňa)
- Ing. Irena Gejdoš Janotová, PhD.
- Mgr. Martin Venhart, PhD.
- Ing. Marián Deanko, PhD. (Vacuumschmelze, s. r. o.)
- Mgr. Martin Lištjak, PhD. (VÚJE, a. s.)
- doc. RNDr. Jozef Strečka, PhD. (UPJŠ)

11.3. Dozorná rada - zloženie a základná informácia o činnosti

Zloženie:

- prof. RNDr. Peter Samuely, DrSc. (predseda)
- Ing. Romana Jurkiewiczová
- prof. Ing. Vladimír Nečas, PhD.

11.4. Informácie o štrukturálnych a organizačných zmenách v organizácii

11.5. Zmeny zakladacej listiny, vnútorných predpisov organizácie alebo zakladateľ a

12. Činnosť knižnično-informačného pracoviska organizácie

12.1. Knižničný fond

Tabuľka 12a Knižničný fond

Knižničné jednotky spolu		
z toho	knihy a zviazané periodiká	
	audiovizuálne dokumenty	
	elektronické dokumenty (vrátane digitálnych)	
	mikroformy	
	iné špeciálne dokumenty - dizertácie, výskumné správy	
	Rukopisy, vzácne tlače	
Počet titulov dochádzajúcich periodík		
z toho zahraničné periodiká		
Ročný prírastok knižničných jednotiek		
v tom	kúpou	
	darom	
	výmenou	
	bezodplatným prevodom	
	náhradou	
Úbytky knižničných jednotiek		
Knižničné jednotky spracované automatizovane		

Výraz „**v tom**“ označuje úplné (vyčerpávajúce) údaje, ktorých súčet sa musí rovnať údaju v riadku „spolu“, čiže nadradenému riadku.

Výraz „**z toho**“ označuje neúplné (výberové) údaje, ktorých súčet sa nemusí rovnať údaju v riadku „spolu“.

12.2. Výpožičky a služby

Tabuľka 12b Výpožičky a služby

Výpožičky spolu (riadok 1)		
v tom z r. 1	prezenčné výpožičky	
	absenčné výpožičky	
v tom z r. 1	odborná literatúra pre dospelých	
	výpožičky periodík	
MVS iným knižniciam		
MVS z iných knižníc		
MMVS iným knižniciam		
MMVS z iných knižníc		
Počet vypracovaných bibliografií		

Počet vypracovaných rešerší	

12.3. Používatelia

Tabuľka 12c Používatelia

Registrovaní používatelia	
Návštevníci knižnice spolu (bez návštevníkov podujatí)	

12.4. Iné údaje

Tabuľka 12d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	
Náklady na nákup knižničného fondu v €	

12.5. Iné informácie o knižničnej činnosti

Elektronický katalóg Knižnice FÚ SAV je zabezpečený formou open source systému PhpMyBibli. Knižničný systém slúži na katalogizáciu knižničných jednotiek a evidenciu užívateľov Knižnice. Katalóg je prístupný na webovej adrese <http://kniznica.fu.sav.sk>.

13. Nadácie a fondy pri organizácii SAV

14. Realizácia Koncepcie dlhodobého rozvoja a Akčného plánu organizácie

14.1. Odporúčania z posledného pravidelného (akreditačného) hodnotenia organizácií SAV

FÚ SAV, v. v. i. bol na základe hodnotenia medzinárodného Metapanelu zaradený do kategórie s charakteristikou: "Výskum je viditeľný na európskej úrovni.

Organizácia prispieva hodnotnými výsledkami k rozvoju vednej oblasti v Európe" a získal celkové ocenenie "B".

Na základe výsledkov akreditácie pokračujeme v identifikovaní slabých a silných stránok ústavu a realizujeme konkrétne aktivity prispievajúce na rozvoj ústavu.

14.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

V r. 2025 sme pokračovali v napĺňaní hlavných bodov akčného plánu činnosťami:

- Prijali sme 5+2 nových PhD študentov, financovaných z rôznych zdrojov. Počty PhD študentov financovaných z centrálnych zdrojov SAV sa snažíma napĺňať na maximum, napriek zdĺhavejším administratívno-technickým problémom pri vybavovaní ich dokumentov (nostrifikácie diplomov atď.).
- Vo výberovom konaní na ústavom financovanú pozíciu „IP SAS Fellow“ uspel nový kandidát, S. Ullah nastúpil na oddelenie OMN.
- Boli odmenené publikácie s vysokým impakt faktorom a s vysokým počtom citácií na jednu publikáciu.
-

14.3. Aktualizácia Akčného plánu organizácie v roku 2025

V uplynulom roku bola sformulovaná nová koncepcia akčného plánu na roky 2030+40, ktorá bola prediskutovaná aj s medzinárodným poradným panelom. V r. 2026 sa očakáva jeho finálne potvrdenie. Ústav tiež pokračuje v napĺňaní cieľov výkonnostnej zmluvy o poskytnutí finančných prostriedkov na podporu vedy a výskumu v rámci Akčného plánu Národnej stratégie výskumu, vývoja a inovácií 2030. Aj v rámci monitoringu zo strany Predsedníctva SAV môžeme konštatovať, že realizované aktivity prispievajú k úspešnému naplneniu všetkých kvantitatívnych a kvalitatívnych ukazovateľov v zadefinovaných šiestich tematických okruhoch.

15. Iné významné činnosti organizácie

16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám

Uveďte informácie v súlade so zákonom č. 211/2000 Z.z. o slobodnom prístupe k informáciám.

17. Problémy organizácie a podnety pre Predsedníctvo SAV k činnosti SAV

Uveďte informácie a podnety v súlade s názvom kapitoly.

18. Vyjadrenia vedeckej rady organizácie k výsledkom výskumnej činnosti za uplynulý rok

Uvádzajte tu stručné rámcové hodnotenie výsledkov výskumnej činnosti schválené vedeckou radou organizácie a jej vyjadrenie k spôsobilosti organizácie vykonávať výskumnú činnosť.

Schválila vedecká rada organizácie SAV dňa 5.2.2025

Mgr. Erik Bartoš, PhD.
predseda vedeckej rady

Výročnú správu o činnosti organizácie za rok 2025 vypracoval(i):

Mgr. Erik Bartoš, PhD., 02/ 59410 kl. 512

Bratislava, 21.1.2026

doc. Mgr. Mário Ziman, PhD.
riaditeľ organizácie

PRÍLOHY k časti A

Príloha A-1

Zoznam zamestnancov a doktorandov organizácie k 31.12.2025

Zoznam zamestnancov podľa štruktúry

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	Prof. RNDr. Vladimír Bužek, DrSc.	100	1.00
2.	RNDr. Stanislav Dubnička, DrSc.	50	0.50
3.	Ing. Ján Ivančo, DrSc.	75	0.75
4.	Ing. Matej Jergel, DrSc.	100	1.00
5.	Ing. Ján Kliman, DrSc.	70	0.70
6.	RNDr. Marián Krajčí, DrSc.	100	1.00
7.	prof. Ing. Štefan Luby, DrSc.	50	0.50
8.	RNDr. Eva Majková, DrSc.	25	0.25
9.	Prof. Yuriy Plevachuk, DrSc.	100	1.00
10.	RNDr. Ladislav Šamaj, DrSc.	100	1.00
11.	Dr. rer. nat. Peter Šiffalovič, DrSc.	70	0.70
12.	prof. Ing. Ivan Štich, DrSc.	20	0.20
13.	Ing. Peter Švec, DrSc.	100	1.00
Samostatní vedeckí pracovníci			
1.	MSc. Djeylan Vincent Ceylan Aktas, PhD.	100	1.00
2.	Mgr. Erik Bartoš, PhD.	100	1.00
3.	Ing. Vlastimil Boháč, CSc.	100	1.00
4.	RNDr. Beata Butvinová, CSc.	100	1.00
5.	Gilberto Ferreira Borges, PhD.	100	1.00
6.	Mgr. Peter Filip, PhD.	20	0.20
7.	Ing. Irena Gejdoš Janotová, PhD.	100	1.00
8.	Mgr. Andrej Gendiar, PhD.	100	1.00
9.	Mgr. Seyed Arash Ghoreishi, PhD.	100	1.00
10.	Ing. Štefan Gmuca, CSc.	70	0.70
11.	RNDr. Katarína Gmucová, CSc.	100	1.00
12.	Ing. Yuriy Halahovets, PhD.	100	1.00
13.	Mgr. Andrej Herzán, PhD.	100	1.00

14.	RNDr. Monika Hofbauerová, PhD.	70	0.70
15.	RNDr. Ivan Horváth, PhD.	50	0.14
16.	Mgr. Adriana Hvizdošová Annušová, PhD.	50	0.50
17.	RNDr. Pavol Kalinay, CSc.	100	1.00
18.	doc. Mgr. Denis Kochan, PhD.	100	1.00
19.	Mgr. Roman Krčmár, PhD.	100	1.00
20.	Dr. rer. nat. Ing. Andrej Liptaj, PhD.	100	1.00
21.	RNDr. Lubomir Martinovič, CSc.	40	0.40
22.	RNDr. Igor Maťko, CSc.	100	1.00
23.	Ing. Vladislav Matoušek, CSc.	100	1.00
24.	RNDr. Marek Mihalkovič, CSc.	100	1.00
25.	MSci. Mohammad Hamed Mohammady, PhD.	100	1.00
26.	RNDr. Naďa Mrkývková, PhD.	50	0.50
27.	Ing. Vojtech Nádaždy, CSc.	100	1.00
28.	Mgr. Daniel Nagaj, PhD.	20	0.20
29.	RNDr. Emil Pinčík, CSc.	100	1.00
30.	doc. RNDr. Martin Plesch, PhD.	50	0.50
31.	RNDr. Anton Repko, PhD.	100	1.00
32.	Saeid Salari, PhD.	100	1.00
33.	Mgr. Michal Sedlák, PhD.	100	1.00
34.	Ing. Mgr. Peter Staňo, PhD.	52	0.52
35.	RNDr. Ondrej Šauša, CSc.	100	1.00
36.	Ing Peter Švec Jr., PhD.	100	1.00
37.	RNDr. Kamil Tokár, PhD.	30	0.30
38.	Ing. Igor Travěnek, CSc.	100	1.00
39.	RNDr. Robert Turanský, PhD.	80	0.80
40.	Mgr. Karol Végső, PhD.	90	0.90
41.	Mgr. Martin Venhart, DrSc.	50	0.50
42.	Ing. Viliam Vretenár, PhD.	25	0.25
43.	doc. Mgr. Mário Ziman, PhD.	100	1.00
Vedeckí pracovníci			
1.	David Amaro Alcala, PhD.	100	0.58
2.	RNDr. Róbert Brunner, CSc.	100	1.00
3.	Mgr. Jozef Genzor, PhD.	100	1.00
4.	MSc. Azadeh Ghannadan, PhD.	100	1.00

5.	Ing. Ján Hudec, PhD.	34	0.34
6.	Ing. Anna Kálosi, PhD.	30	0.30
7.	RNDr. Dušan Lorenc, PhD.	50	0.25
8.	Mgr. Ivana Miháliková	40	0.20
9.	Mgr. Ijaz Ahamed Mohammad, PhD.	100	0.51
10.	Mgr. Natalia Salomé Móller, PhD.	100	1.00
11.	Mgr. Peter Nádaždy, PhD.	50	0.50
12.	Mgr. Peter Rapčan, PhD.	100	1.00
13.	Ing. Jaroslav Rusnák, PhD.	100	1.00
14.	Samiullah Samiullah, PhD.	100	0.80
15.	Ing. Matúš Sedlák, PhD.	100	1.00
16.	Konrad Jan Szymański, PhD.	100	0.83
17.	Ing. Vladimír Štofanič, PhD.	25	0.25
18.	Mgr. Rupali Tiwari, PhD.	20	0.20
19.	Dr. Sebastian Vielhauer, PhD.	100	1.00

Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)

1.	RNDr. Dušan Janičkovič	100	1.00
2.	Mgr. Ivan Klábik	100	1.00
3.	Ing. Dušan Lacko	25	0.25
4.	doc. Ing. Peter Lacko, PhD.	25	0.25
5.	Matej Moško, MPhil	5	0.05
6.	Mgr. Magdaléna Šolcová	5	0.05
7.	Mgr. Iryna Timchenko Prihodko, PhD.	100	1.00
8.	Mgr. Filip Varhaník	5	0.01

Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)

1.	Mgr. Radka Hovorková	100	1.00
2.	Mgr. Andrea Korenková	100	1.00
3.	Mgr. Katarína Slezáková	100	1.00
4.	Ing. Beata Solčianska	100	1.00
5.	Ing. Bc. Mária Sovová	25	0.25
6.	Mgr. Mária Surovcová, PhD.	100	1.00
7.	Bc. Mária Švančarová	100	1.00
8.	Mgr. Angelika Winczerová	100	1.00

Odborní pracovníci ÚSV

1.	Silvia Bačová	100	1.00

2.	Michal Halász	100	1.00
3.	Emília Hoffmannová	100	1.00
4.	Karmen Chorvátová	100	0.42
5.	Jana Koláriková	100	1.00
6.	Marian Markovič	100	1.00
7.	Ivan Sabo	60	0.60
8.	Oľga Švančarová	30	0.30
9.	Zuzana Válekova	100	0.58
10.	Zita Vaňovičová	100	1.00
Ostatní pracovníci			
1.	Róbert Kostka	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Samostatní vedeckí pracovníci			
1.	RNDr. Beata Butvinová, CSc.	31.12.2025	1.00
2.	doc. Mgr. Taras Kavetsky, PhD.	31.8.2025	0.67
Vedeckí pracovníci			
1.	RNDr. Róbert Brunner, CSc.	31.12.2025	1.00
2.	Mgr. Ryszard Pawel Kostecki, PhD.	30.4.2025	0.33
3.	Mgr. Leevi Ilmari Leppäjärvi, PhD.	31.1.2025	0.08
4.	MSc. Fereshte Shahbeigi, PhD.	10.3.2025	0.19
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Lukáš Holka	31.8.2025	0.03
2.	Mgr. Nikolas Masničák	31.8.2025	0.00
3.	MSc. Nana Siddhartha Yenamandala	31.1.2025	0.00
4.	Mgr. Shima Sousani	31.1.2025	0.00
5.	Mgr. Daniel Truchan	31.8.2025	0.03
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Jana Kováčová	30.11.2025	0.92
2.	Bc. Ivana Kúdelová	31.1.2025	0.08
3.	Ing. Denisa Melišková	28.2.2025	0.17
Odborní pracovníci ÚSV			
1.	Michal Halász	31.12.2025	1.00
2.	Emília Hoffmannová	31.12.2025	1.00

3.	Jana Zvončeková	12.1.2025	0.03

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostředkov SAV			
1.	MSc. Ieline Ahmed	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
2.	MSc. Poongodi Ayyanusamy	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
3.	Ing. Monika Bírová	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
4.	MSc. Shuang Deng	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
5.	Mgr. Yuri Chernyak	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
6.	MSc. Kartik Nanasaheb Kakade	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
7.	Mgr. Denisa Lampášová	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
8.	Mgr. Mumtaz Manzoor	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
9.	MSc. Soundarya Neelananarayanan	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
10.	MSc. Samgeeth Puliyl	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
11.	MSc. Ricardo Rivera Cardoso	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
12.	MSc. Soham Sau	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
13.	MSc. Aneesha Senthilkumar	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
14.	MSc. Nana Siddhartha Yenamandala	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
15.	Mgr. Magdaléna Šolcová	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
16.	Mgr. Filip Varhaník	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
17.	MSc. Noel Vincze	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
18.	MSc. Saadat Salman Shariff Wahid Shariff	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
Interní doktorandi hrazení z iných zdrojov			
1.	MSc. Ardra Ajitha Vijayan	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
2.	MSc. Miquel Jorquera Riera	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
3.	Mgr. Ivan Andreevič Kovalev	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
4.	Mphil. Matej Moško	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
5.	MSc. Muhammad Arslan Raza	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
Externí doktorandi			
<i>organizácia nemá externých doktorandov</i>			

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi
1.	Doc. RNDr. Emil Běták, DrSc.
2.	RNDr. Juraj Boháčik, CSc.
3.	RNDr. Pavol Butvin, CSc.
4.	RNDr. Emília Illeková, DrSc.
5.	Ing. Ľudovít Kubičár, DrSc.
6.	Ing. Štefan Lányi, DrSc.
7.	Prof., RNDr. Eva Majerníková, DrSc.
8.	RNDr. Peter Mrafko, CSc.
9.	RNDr. Anton Šurda, CSc.
10.	Ing. Ivan Turzo, CSc.

Príloha A-2

Projekty riešené v organizácii

Medzinárodné projekty

Programy: COST

1.) Základné výzvy v teoretickej fyzike

Zodpovedný riešiteľ:	Michal Sedlák
Trvanie projektu:	1.10.2023 / 31.10.2027
Evidenčné číslo projektu:	CA22113
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

2.) Uhlíkové molekulárne nanoštruktúry vo vesmíre (*Carbon molecular nanostructures in space*)

Zodpovedný riešiteľ:	Peter Šiffalovič
Trvanie projektu:	27.10.2022 / 26.10.2026
Evidenčné číslo projektu:	CA21126
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

V roku 2025 sme pokročili v systematickej charakterizácii materiálov na báze uhlíka využitím multimodálneho spektroskopického prístupu. Použili sme nanoFTIR mapovanie na dosiahnutie chemického zobrazovania na nanometrovej úrovni. Súčasne bola implementovaná konfokálna Ramanova spektroskopia ako komplementárna metodika na vyhodnotenie štruktúrneho usporiadania a hustoty defektov uhlíkových materiálov. Integrácia týchto techník – preklenujúca medzeru medzi nano- a mikro-rozmermi – ponúka diagnostický rámec pre komplexnú analýzu foriem uhlíka v študovaných vzorkách.

Programy: NATO

3.) Bezpečnostná komunikácia prostredníctvom klasických a kvantových technológií (*Secure Communication via Classical and Quantum Technologies*)

Zodpovedný riešiteľ:	Djeylan Vincent Ceylan Aktas
Trvanie projektu:	30.3.2023 / 28.2.2026
Evidenčné číslo projektu:	NATO SPS G5985

Organizácia je koordinátorom projektu: nie
Koordinátor: University of Alabama in Huntsville
Počet spoluriešiteľských inštitúcií: 9 - Španielsko: 2, Fínsko: 2, Slovensko: 3, USA: 2
Čerpané financie: -

Dosiahnuté výsledky:

Programy: ERANET

4.) Germánum MOSFET pre kvantové počítanie (*Germanium MOSFETs for quantum computation*)

Zodpovedný riešiteľ: Peter Staňo
Trvanie projektu: 1.8.2024 / 31.7.2027
Evidenčné číslo projektu: GA No 101017733
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 4 - Nemecko: 2, Švajčiarsko: 2
Čerpané financie: -
Podpora medzinárodnej spolupráce z národných zdrojov: 25000 €

Dosiahnuté výsledky:

V priebehu roka 2025 dosiahlo konzorcium niekoľko významných výsledkov. TEM štúdie potvrdili, že vo vzorkách vyrobených konzorciom tvorí MgO kryštalickú, epitaxne usporiadanú vrstvu. Pre tieto vzorky sme zmerali typické hodnoty hustoty a mobility dier. Zároveň sme vykonali porovnávacie štúdie analyzujúce vplyv zloženia oxidu, podmienok rastu a výrobných metód na výkon zariadenia. Teoreticky sme sa venovali fyzikálnym modelom a pokročilým numerickým simuláciám toho ako materiálové napätia, deformácia a elektrické polia ovplyvňujú hmotnosť a ďalšie parametre dier. Okrem toho sme začali s 3D simuláciami, pre modelovanie termálnych, štruktúrnych a elektrostatických podmienok v reálnych zariadeniach.

Programy: Iné

5.) Trvalo udržateľná investícia do inovácií – Katapult pre permanentné magnety (*Sustainable Innovation investment Catapult for Permanent Magnets*)

Zodpovedný riešiteľ: Peter Švec
Trvanie projektu: 1.10.2024 / 31.3.2027
Evidenčné číslo projektu: 101160837
Organizácia je koordinátorom projektu: nie
Koordinátor: Universidad de Jaen
Počet spoluriešiteľských inštitúcií: 10 - Španielsko: 4, Francúzsko: 1, Chorvátsko: 1, Slovinsko: 4
Čerpané financie: MVTS: 4603 €

Dosiahnuté výsledky:

Adaptovali sme proces prípravy predzliatin /vstupných materiálov pre prípravu systémov na báze NdFeB využívajúci recyklované magnety. Implementovali sme proces vodíkovej dekrepitácie (rozpad materiálu v dôsledku prenikaniu vodíka do štruktúry – hydrogen decrepitation), skonštruovali sme jednoduchý reaktor pracujúci do 200 oC / 5 atm H₂, krátkodobým tepelným spracovaním je možné dosiahnuť odstránenie povrchovej ochrany – vrstvy Ni – a vytvorenie práškoveho Nd-Fe-B s rozmermi ~50 um vhodnými na ďalšie spracovanie.

6.) Vývoj vysoko-citlivého magnetického gradiometra na báze nových magnetických materiálov (*Design of novel materials-based high performance magnetic gradiometer*)

Zodpovedný riešiteľ: Peter Švec
Trvanie projektu: 1.4.2024 / 31.3.2027
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: nie
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Turecko: 1
Čerpané financie: MVTs: 12500 €

Dosiahnuté výsledky:

Zamerali sme sa metodicky na návrh, výrobu, kalibráciu a komplexnú charakterizáciu domáceho trojosového fluxgate magnetometra. Magnetometer využívajúci konfiguráciu s kruhovým jadrom bol vyvinutý na meranie ultranízkych magnetických polí s vysokou citlivosťou a stabilitou. Podrobne sme rozobrali kritické fázy od výberu materiálu až po optimalizáciu geometrie senzora. Vykonalí sme sériu kritických charakterizačných procesov vrátane určenia napätia v nulovom poli, výpočtu mierkového faktora, merania rozlíšenia, analýzy šumu, posúdenia predpätia, vyhodnotenia vplyvu krížového poľa, teplotnej závislosti a určenia šírky pásma senzora. Senzor dosiahol minimálne detekovateľné rozlíšenie magnetického poľa 2.2 nT s úrovňou šumu 1.1 nT/√Hz pri 1 Hz. Testy teplotnej závislosti odhalili minimálny vplyv na výstup senzora s maximálnym posunom 120 nT v rozsahu 60 °C, ktorý bol efektívne kompenzovaný kalibráciou na menej ako 5 nT. V práci sme zaviedli modelovú funkciu v maticovej forme na koreláciu a prepočet výstupného napätia magnetometra na merané magnetické pole vrátane teplotnej závislosti. Významným aspektom práce je dôraz na dôležitosť precíznej kalibrácie a optimalizácie pri vývoji fluxgate magnetometrov vhodných pre rôzne aplikácie od prieskumu vesmíru až po biomedicínsku diagnostiku.

Programy: Horizont Európa

7.) Novel polymer matrixes and micro/nanocarriers for biosensing improvement (*Novel polymer matrixes and micro/nanocarriers for biosensing improvement*)

Zodpovedný riešiteľ: Ondrej Šauša
Trvanie projektu: 1.7.2023 / 30.6.2025
Evidenčné číslo projektu: 1128327
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

8.) Siet' PERmanentných MAgnetov pre prechod do Európy (*PERmanent MAgnet Network for the European Transition*)

Zodpovedný riešiteľ: Peter Švec
Trvanie projektu: 1.11.2024 / 28.2.2028
Evidenčné číslo projektu: 101178444
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: MVTs: 10840 €

Dosiahnuté výsledky:

Na vyvinutom reaktore umožňujúcom rozpad materiálu v dôsledku prenikaniu vodíka do štruktúry sme pripravili z recyklovaných magnetov vzorky Nd-Fe-B v práškovej forme. Pomocou opakovanej rtg. difrakcie sme overili možnosť dlhodobej expozície materialu mimo ochrannej atmosféry

Programy: Digital Europe Programme

9.) Slovenská kvantová komunikačná infraštruktúra (*Slovak quantum communication infrastructure*)

Zodpovedný riešiteľ: Djeylan Vincent Ceylan Aktas
Trvanie projektu: 1.1.2023 / 31.12.2025
Evidenčné číslo projektu: DIGITAL-2021-QCI-01 No. 101091548
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

Domáce projekty

Programy: VEGA

1.) Zdroje previazaných párov fotónov pre základné štúdie, metrológiu a kvantovú komunikáciu (*Entangled Photon pairs Sources for fundamental studies, metrology and quantum communication Beyond QKD*)

Zodpovedný riešiteľ: Djeylan Vincent Ceylan Aktas
Trvanie projektu: 1.1.2025 / 31.12.2028
Evidenčné číslo projektu: 2/0157/25
Organizácia je áno

koordinátorom projektu:**Koordinátor:** Fyzikálny ústav SAV, v. v. i.**Počet spoluriešiteľských** 0**inštitúcií:****Čerpané financie:** -Dosiahnuté výsledky:**2.) Fenomenologické modelovanie štruktúry častíc** (*Phenomenological modeling of particle structure*)**Zodpovedný riešiteľ:** Erik Bartoš**Trvanie projektu:** 1.1.2025 / 31.12.2028**Evidenčné číslo projektu:** 2/0084/25**Organizácia je** áno**koordinátorom projektu:****Koordinátor:** Fyzikálny ústav SAV, v. v. i.**Počet spoluriešiteľských** 0**inštitúcií:****Čerpané financie:** VEGA SAV: 9356 €Dosiahnuté výsledky:

Bol preskúmaný problém existencie tlmených oscilujúcich štruktúr pre efektívne elektromagnetické formfaktory deuterónu, využitím rovnakej procedúry ako v prípade protónov, napriek tomu, že neexistujú experimentálne údaje pre totálny účinný prierez $e+e^- \rightarrow D \text{ bar} D$. Spoločný výsledok deuterónových, kaónových a nukleónových analýz indikuje, že zdanlivé tlmené oscilujúce štruktúry nie sú reálne a sú výsledkom veľmi zjednodušeného teoretického popisu založeného na elementárnom trojparametrovom modeli. Na druhej strane použitý unitárny a analytický model demonštruje svoje schopnosti byť aplikovaný na opis rôznych hadrónových procesov.

V rámci kovariantného kvarkového modelu bol analyzované šírky leptonického rozpadu ťažkých kvarkónií, najmä B^0 a B^+ , ako komplementárne pozorovateľné prvky k semileptonickým rozpadom ťažkých mezónov.

Boli publikované štyri publikácie a dva konferenčné príspevky. Práce zahŕňajú aj publikáciu venovanú konštrukcii aproximáciám derivácie, ktoré sa konštruujú ako mocninné rady zostavené z rôznych funkcií.

3.) Progresívne prírodné izolačné materiály pre drevostavby - laboratórny a in-situ výskum vlastností**Zodpovedný riešiteľ:** Vlastimil Boháč**Trvanie projektu:** 1.1.2025 / 31.12.2028**Evidenčné číslo projektu:** 1/0179/25**Organizácia je** áno**koordinátorom projektu:****Koordinátor:** Fyzikálny ústav SAV, v. v. i.**Počet spoluriešiteľských** 0**inštitúcií:****Čerpané financie:** -

Dosiahnuté výsledky:

4.) Kvantové simulácie a modelovanie interakčných sietí (*Quantum Simulations and Modelling of Interaction Networks*)

Zodpovedný riešiteľ: Andrej Gendiar
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: 2/0156/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

5.) Tvarová koexistencia v atómových jadrách (*Shape coexistence in atomic nuclei*)

Zodpovedný riešiteľ: Andrej Herzán
Trvanie projektu: 1.1.2024 / 31.12.2026
Evidenčné číslo projektu: 2/0175/24
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

6.) 3D tlač filamentov s „nevšednými“ plnivami pre špeciálne aplikácie (*3D printing of filaments with "non-conventional" fillers for special applications*)

Zodpovedný riešiteľ: Adriana Hvizdošová Annušová
Trvanie projektu: 1.1.2024 / 31.12.2027
Evidenčné číslo projektu: VEGA 2/0056/24
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav polymérov
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

V druhom roku projektu sme pokračovali v príprave nanočastíc MoOx využitím dvoch prístupov: mikrovlnnej sol gel metódy a kontrolovanej chemickej redukcie z MoO₃, ktoré umožnili získať materiál vo vyšších koncentráciách. Pripravené nanomateriály boli následne zapracované ako funkčné plnivá do rôznych polymérnych filamentov s cieľom posúdiť ich vhodnosť pre aplikácie

v 3D tlači. Všetky vzniknuté kompozity boli podrobené charakterizácii zameranej na ich štruktúrne, optické a mechanické vlastnosti, čím sa vytvoril pevný základ pre ďalšiu optimalizáciu materiálov.

7.) Analýza mechanizmu detekcie chemoodporových nanoštruktúrovaných senzorov na báze oxidov kovov (*On sensing mechanism of chemiresistive nanostructured sensors based on metal oxides*)

Zodpovedný riešiteľ: Ján Ivančo
Trvanie projektu: 1.1.2023 / 31.12.2025
Evidenčné číslo projektu: 2/0142/23
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 4917 €

Dosiahnuté výsledky:

Trioxid volfrámu (WO₃) je polymorf. Nízкотеплотná fáza epsilon, ktorá je v objemovom WO₃ stabilná iba pri teplotách <-40°C, je sľubným aktívnym materiálom. Posun stability tejto fázy do vyšších teplôt sa dosahuje napr. mikrokryštalickou morfológiou a dopovaním. Projekt sa venoval štruktúre mikrokryštalického WO₃ dopovaného chrómom. Simultánnym použitím pomocou viacerých metód (Ramanova spektroskopia, röntgenová difrakcia, rastrovací a transmisný elektrónový mikroskop) sme identifikovali charakteristické frekvencie fázy epsilon v oblasti nízkych frekvencií Ramanovho spektra, ktoré umožňujú stanoviť obsah fázy epsilon v polykryštalickom WO₃.

Š. Luby, Proc. ADEPT 2025, ISBN 978-80-554-2208-4, pp. 12-17.

8.) Dimenzionálna redukcia transportných rovníc v priestorovo obmedzených systémoch

Zodpovedný riešiteľ: Pavol Kalinay
Trvanie projektu: 1.1.2024 / 31.12.2026
Evidenčné číslo projektu: 2/0020/24
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 2400 €

Dosiahnuté výsledky:

Difúzia častice v nehomogénnych kvázi-1D kanáloch za pôsobenia reálnej alebo aj efektívnej sily sa dá popísať zovšeobecnenou Fick-Jacobsovou (FJ) rovnicou s efektívnym difúznym koeficientom a potenciálom závisiacim od polohy a času. Asymetria kanálu za pôsobenia periodickej sily môže stochastický pohyb častice usmerniť, vzniká tzv. rocking ratchet effect. Našli sme asymptotické riešenie príslušnej FJ rovnice, dávajúce ratchet prúd v celom frekvenčnom rozsahu pre širokú triedu ratchet modelov.

9.) Časticové mikro- a mezopórovité materiály na báze uhlíka z prírodných prekursorov (*Carbon-based particulate micro- and mesoporous materials from natural precursors*)

Zodpovedný riešiteľ: Igor Mat'ko
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: 2/0166/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 3944 €

Dosiahnuté výsledky:

Pokračovala širšia štúdia kompozitov, kde sú využité uhlíkové vlákna pripravené karbonizáciou delignifikovanej celulózy ako nosiče čiastočiek aktívnej substancie, konkrétne povrchovo vyprecipitované čiastočky oxidu vybraných kovov. Štúdia sa zamerala na hlbšiu charakterizáciu štruktúry a zloženia aktívnej substancie.

Súhrn výsledkov bol publikovaný v príspevku na seminári "Termoanalytický seminár 2025".

V rámci spolupráces domácimi partnermi bola charakterizovaná aj mikroštruktúra kompozitov, kde ako nosič aktívnej substancie slúži iný organický prekursor, konkrétne sa jednalo o spóry vybraných druhov húb, prípadne drť karbonizovaného bambusu. Výsledky sú publikované v jednej CC publikácii, ďalšia je v procese prípravy.

Do tlače bola zaslaná CC publikácia prezentujúca poznatky o súvislosti použitej techniky prípravy a charakteru poróznej štruktúry pripraveného materiálu pre rozličné org. prekursory.

Pokračovali aj štúdie v rámci medzinárodnej spolupráce. Najvýznamnejší dosiahnutý výsledok je ukážka syntézy a charakterizácia antibakteriálnych účinkov kompozitu, kde ako aktívna substancia slúžia častice oxidu železa pokryté vrstvou striebra. Výsledky sú publikované v CC publikácii.

10.) Hľadanie optimálnych štruktúrnych a elektronických vlastností organických polovodičových vrstiev (*Search for optimal structural and electronic properties of organic semiconductor thin films*)

Zodpovedný riešiteľ: Vojtech Nádaždy
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: 2/0165/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: VEGA: 12239 €

Dosiahnuté výsledky:

11.) Výskum a optimalizácia vlastností štruktúr na báze čierneho c-Si a čierneho poly-Si pre výrobu veľkoplošných vysokoúčinných slnečných článkov

Zodpovedný riešiteľ: Emil Pinčík
Trvanie projektu: 1.1.2023 / 31.12.2025
Evidenčné číslo projektu: 2/0007/23
Organizácia je koordinátorom projektu: áno

Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

12.) Efektívne algoritmy pre kvantové počítanie v ére NISQ (*Resource Efficient Algorithms for Quantum Computers in NISQ Era*)

Zodpovedný riešiteľ: Martin Plesch
Trvanie projektu: 1.1.2023 / 31.12.2026
Evidenčné číslo projektu: 2/0055/23
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

13.) Rast a optická charakterizácia 2D materiálov: MoTe₂, WTe₂, PtTe₂ (*Growth and optical characterization of 2D materials: MoTe₂, WTe₂, PtTe₂*)

Zodpovedný riešiteľ: Lenka Pribusová Slušná
Zodpovedný riešiteľ v organizácii SAV: Karol Végső
Trvanie projektu: 1.1.2023 / 31.12.2025
Evidenčné číslo projektu: 2/0046/23
Organizácia je koordinátorom projektu: nie
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

14.) Kvantové štruktúry (*Quantum Structures*)

Zodpovedný riešiteľ: Michal Sedlák
Trvanie projektu: 1.1.2025 / 31.12.2028
Evidenčné číslo projektu: 2/0164/25
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0

Čerpané financie: -

Dosiahnuté výsledky:

15.) Efektívne interakcie v nízкотеплотnej termodynamike coulombovských systémov

Zodpovedný riešiteľ: Ladislav Šamaj
Trvanie projektu: 1.1.2024 / 31.12.2026
Evidenčné číslo projektu: VEGA 2/0089/24
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 5997 €

Dosiahnuté výsledky:

Pre základný stav jednorozmerných fluidov s párovými interakciami medzi časticami bola dokumentovaná možnosť spontánneho narušenia translačnej symetrie, konkrétne prechodu medzi ekvidištančným a bipartitným základným stavom. V oblasti termodynamiky jednorozmerných fluidov bolo ukázané, že anomálny jav zmenšovania objemu so zvyšovaním teploty existuje aj v prípade presne riešiteľného modelu s interakciami medzi najbližšími susedmi. Pre kulombovské systémy s modulovaným povrchovým nábojom bol dokázaný teorém spájajúci hustotu náboja na a v blízkosti povrchu s modulovaným povrchovým nábojom. Výsledky boli publikované vo forme 3 publikácií v CC časopisoch.

16.) Fyzikálne vlastnosti nových kryoprotektívnych materiálov inšpirovaných prírodnými kryoprotektantami

Zodpovedný riešiteľ: Ondrej Šauša
Trvanie projektu: 1.1.2025 / 31.12.2028
Evidenčné číslo projektu: 2/0131/25
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

17.) Analýza tvorby mikroštruktúry a jej vplyv na vybrané vlastnosti bezolovnatých spájk (Analysis of microstructure formation and its influence on selected properties of lead-free solders)

Zodpovedný riešiteľ: Peter Švec
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: 1/0389/22
Organizácia je koordinátorom projektu: nie
Koordinátor: Fyzikálny ústav SAV, v. v. i.

Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 3568 €

Dosiahnuté výsledky:

Kritický aspekt spájok je spoľahlivosť spájkovaných spojov v širokom rozsahu prevádzkových teplôt, ktorý sa rozširuje aj na teploty pod bodom mrazu. Na základe predchádzajúcich pozitívnych výsledkov v spevňovaní spájkovaných spojov pri zvýšených teplotách po pridaní keramických nanočastíc do kovovej matrice spájky sa uskutočnila štúdia vplyvu niklom potiahnutých nanočastíc SiO₂ prímеси v bezolovnatých spájkach Sn–3,5Ag–0,5Cu po dlhodobom vystavení teplotám pod bodom mrazu (Journal of Materials Science: Materials in Electronics). Povlakovanie nanočastíc SiO₂ niklom sa uskutočnilo metódou povrchovej modifikácie, ktorá vyriešila problém výroby kompozitných spájok spojený s nemiešaním nereaktívnych oxidov a kovovej matrice. Výskum sa zameriaval na mikroštruktúru a šmykovú pevnosť spájkovaných spojov vytvorených medzi nanokompozitnou spájkou a dvoma medenými substrátmi, a to ako pri izbovej teplote, tak aj po 4 mesiacoch uchovávaní pri teplote –20 °C. Výsledky experimentálnych štúdií naznačujú, že pridanie niklom zdobených nanorozmerných keramických nečistôt do hlavnej spájkovacej matrice vedie k zníženiu rýchlosti rastu intermetalických vrstiev v spájkovaných spojoch. Údaje z testov vykonaných na vzorkách po vystavení teplotám pod bodom mrazu nepreukázali žiadny významný pokles šmykovej pevnosti, čo dokazuje ich účinnosť pri spájkovaní súčiastok v elektronických zariadeniach, ktoré môžu pracovať v širokom rozsahu od mínusových až po zvýšené teploty.

18.) Implementácia konceptu substitúcie HEA atómov pri vývoji nových materiálov pripravených rôznymi ochladzovacími a žihacími rýchlosťami (*Implementation of the concept of HEA atoms substitution in development of new materials prepared by different quenching and processing rates*)

Zodpovedný riešiteľ: Peter Švec
Trvanie projektu: 1.1.2025 / 31.12.2028
Evidenčné číslo projektu: 2/0120/25
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 20490 €

Dosiahnuté výsledky:

Detailne sme preskúmali magneticky mäkké amorfné zliatiny typu HITPERM (Fe₈₁?xCo_xNb₇B₁₂) pomocou difrakcie synchrotrónového žiarenia v kombinácii s analýzou párovej distribučnej funkcie (PDF) s cieľom určiť lokálnu atomárnu štruktúru tejto technologicky dôležitej skupiny magneticky mäkkých materiálov (Appl. Phys. Lett.). Analýzou vzoriek s rôznymi pomermi Fe/Co sme pomocou PDF analýzy v kombinácii s RMC modelovaním ukázali, že existuje výrazná tendencia atómov Fe a Co lokálne sa asociovať v okolí ekvatomárneho zloženia Fe/Co, čo naznačuje existenciu zhlukovania alebo usporiadania na krátke vzdialenosti v skúmanej oblasti zložení.

Na súbore magneticky mäkkých vzoriek systému Fe-Co-B+Cu pripravenom v predošlom období sme preskúmali vplyv legovania malým množstvom Cu a žihania metódami stredne krátkych žihacích časov (~ niekoľko sekúnd) pri zvýšených teplotách na výsledné magnetické vlastnosti. Overovali sme aj efekt prítlaku pri tepelnom spracovaní na magnetické parametre vzoriek. Získané výsledky zdôrazňujú o.i. aj význam prítomnosti malého množstva Cu na výslednú štruktúru a magnetické vlastnosti týchto nanomateriálov.

Práce zamerané na prvoprincípové štúdie špeciálne usporiadaných štruktúr, ktoré následne poskytujú nevyhnutnú fyzikálnu a termodynamickú metodiku pre riešenia štruktúr a vlastností skúmaných materiálov, predstavujú neoddeliteľnú a priebežne dopĺňovanú expertízu pre pochopenie pozorovaných fundamentálnych javov v týchto systémoch. Práce v Phys. Rev. B (2x) a J. Phys.: Cond. Matter predstavujú prínos k poznaniu usporiadania v systémoch na báze Al-Mn, ktoré sú predmetom skúmania ako perspektívne magneticky tvrdé materiály na báze Al₄₅Mn₅₅. Zliatiny typu HEA sa vynikajúco hodia pre koncept ladenia fyzikálnych (a technických) vlastností vhodným výberom série atómov a ich vzájomného pomeru. Využili sme tento koncept o.i. pri skúmaní vlastností (elektrická vodivosť, teploty tavenia, fázové prechody) perspektívnych materiálov pre nízkotavitelné bezolovnaté spájky (Journal of Physical Studies). Tieto hrajú kľúčovú úlohu v procese postupného spájkovania, ktoré sa bežne používa pri výrobe viacčipových modulov ako aj optoelektronických súčiastok. Keďže takéto spájky pomáhajú minimalizovať tepelné poškodenie, používajú sa aj na spájanie teplotne citlivých súčiastok vo vysoko spoľahlivej elektronike. Preskúmali sme elektrický odpor ekvatomárnych viaczložkových zliatin Bi-In-Sn-Zn, Bi-In-Zn-Sn-Cu a Bi-In-Sn-Zn-Cu-Ag, ako kľúčovú charakteristiku spájok v širokom rozsahu teplôt od izbovej teploty až po kvapalný stav (roztavená spájka) so zameraním na oblasť topenia a tuhnutia. Teplotné závislosti elektrického odporu v rozsahu teplôt topenia a tuhnutia boli potvrdené kalorimetriou a rtg. analýzou. Získané výsledky naznašujú, že modifikácia binárnych a ternárnych zliatin na báze Sn, Ag a Cu ďalšími prvkami (Bi, In, Zn) môže vhodne ovplyvniť (znížiť) teploty potrebné pre priemyselné spájkovanie.

Programy: APVV

19.) Platforma fotonických previazaných quditov pre kvantové technológie

Zodpovedný riešiteľ:	Djeylan Vincent Ceylan Aktas
Trvanie projektu:	1.9.2025 / 31.8.2029
Evidenčné číslo projektu:	APVV-24-0661
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

20.) Využitie nanomedicíny v boji proti rakovine pankreasu prostredníctvom zacielenia nádorovo-asociovej karbonickej anhydrázy IX. (*Nanomedical approach to fight pancreatic cancer via targeting tumor-associated carbonic anhydrase IX*)

Zodpovedný riešiteľ:	Lucia Csáderová
Zodpovedný riešiteľ v organizácii SAV:	Adriana Hvizdošová Annušová
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0485
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Biomedicínske centrum SAV, v. v. i.
Počet spoluriešiteľských	0

inštitúcií:

Čerpané financie: -

Dosiahnuté výsledky:

V poslednej etape projektu v roku 2025 prebiehali pokročilé biologické experimenty – 3D sferoidové modely a in vivo testy – ktoré si vyžadovali kontinuálnu prípravu biokonjugátov MoOx? ABPA?M75. Pri ich príprave sme postupovali podľa protokolu vypracovaného v predchádzajúcej fáze riešenia projektu a fyzikálno?chemické vlastnosti konjugátov sme priebežne monitorovali. Vďaka cielene navrhutej štruktúre sa konjugát ukázal ako mimoriadne účinný: vykazuje preferenčnú väzbu na rakovinové bunky a po aplikácii 808 nm žiarenia ich efektívne deštruuje. Na xenograftových modeloch sme po intratumorálnej injekcii pozorovali výrazné zmenšenie nádorov. Projekt sa uzavrel úspešne, s množstvom publikácií a konferenčných príspevkov, a zároveň inšpiroval vznik ďalších vedeckých spoluprác.

21.) Neutrónová defektoskopia perspektívnych tepelných výmenníkov (Neutron Radiography for Advanced Heat Exchangers)

Zodpovedný riešiteľ: Andrej Herzáň

Trvanie projektu: 1.7.2023 / 31.12.2026

Evidenčné číslo projektu: APVV-22-0304

Organizácia je nie

koordinátorom projektu:

Koordinátor: Slovenská technická univerzita v Bratislave - Fakulta elektrotechniky a informatiky

Počet spoluriešiteľských 0

inštitúcií:

Čerpané financie: -

Dosiahnuté výsledky:

22.) Biologický osud nanokomplexov oxidu železa a molybdén oxidu a ich využiteľnosť v terapii (Biological fate and therapeutic applicability of iron oxide-molybdenum oxide nanocomplexes)

Zodpovedný riešiteľ: Adriana Hvizdošová Annušová

Trvanie projektu: 1.7.2023 / 30.6.2025

Evidenčné číslo projektu: SK-FR-22-0012

Organizácia je áno

koordinátorom projektu:

Koordinátor: Fyzikálny ústav SAV, v. v. i.

Počet spoluriešiteľských 2 - Francúzsko: 2

inštitúcií:

Čerpané financie: -

Dosiahnuté výsledky:

V poslednej etape riešenia bilaterálneho projektu sme sa sústredili na novú metódu prípravy nanočastíc MoOx pomocou mikrovlnnej sol gel syntézy (Truychan et al. 2025, Discover Nano). Ďalej sme pokračovali v príprave a charakterizácii konjugátov na báze MoOx a FeOx. Za účelom rozšírenia aplikačného potenciálu boli do syntézy nanočastíc zahrnuté aj rastlinné extrakty v rámci programu Štefánik+ (Ivashchenko et al. 2026, Biological Advances). Projekt sme uzavreli ako úspešný. Riešenie projektu viedol k publikovaniu štyroch vedeckých článkov, viacerých

konferenčných príspevkov a k rozvoju pokračujúcej spolupráce, vrátane získania projektu Dunajskej stratégie a európskeho výskumného projektu v schéme ERA Net.

23.) Fototerapia rekurentných glioblastómov s nádorovo špecifickým trójskym hybridom optimalizovaným na nano-úrovni (*Nanoengineered Trojan hybrid for site-responsive phototherapy of recurrent glioblastomas*)

Zodpovedný riešiteľ: Adriana Hvizdošová Annušová
Zodpovedný riešiteľ v organizácii SAV: Matej Jergel
Trvanie projektu: 1.9.2024 / 30.6.2028
Evidenčné číslo projektu: APVV-23-0535
Organizácia je koordinátorom projektu: nie
Koordinátor: Centrum pre využitie pokročilých materiálov SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 15561 €

Dosiahnuté výsledky:

V roku 2025 sme sa zamerali na prípravu a charakterizáciu nanočastíc MoOx dvomi metódami: exfoliáciou v tekutej fáze a novovyvinutou mikrovlnami asistovanou sol gel metódou. Pripravili sme konjugáty MoOx RGD a skúmali fyzikálno chemické vlastnosti MoOx aj MoOx RGD z hľadiska ich vhodnosti na zabudovanie do hydrogelových matíc. Nanočastice MoOx sme následne zabudovávali do hydrogelov na báze kopolyméru poly(iPOx co MBL) za rôznych podmienok a vyhodnotili sme účinnosť ich integrácie do polymérnej matrice, ako aj fyzikálno chemické vlastnosti vzniknutého „trojského koňa“ pre protinádorové aplikácie.

24.) pH-závislá fázová premena polyoxomolybdénových nanomateriálov a ich biologická cesta (*pH-triggered Phase Transition of Polyoxomolybdate-Based Nanomaterials and Their Bio Journey*)

Zodpovedný riešiteľ: Adriana Hvizdošová Annušová
Trvanie projektu: 1.7.2025 / 30.6.2027
Evidenčné číslo projektu: DS-FR-24-0051
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 2 - Rakúsko: 1, Francúzsko: 1
Čerpané financie: -

Dosiahnuté výsledky:

V prvej etape projektu sme charakterizovali optické vlastnosti dvoch typov polyoxometalát (POM) materiálov (K₄[PVW₂O₄₀], K₄[SiMoW₂O₄₀]), pripravených rakúskym partnerom projektu, pomocou konfokálnej Ramanovej mikrospektroskopie (CRM). Okrem toho sme pomocou CRM študovali lokalizáciu týchto nanoklástrov v dvoch typoch buniek. Na ďalšie štúdium sme pripravili aj nanočastice MoOx, ktorých vlastnosti boli analyzované pomocou NMR.

25.) Navrhovanie kvantových štruktúr vyššieho rádu (*Designing quantum higher order structures*)

Zodpovedný riešiteľ: Anna Jenčová

Zodpovedný riešiteľ v organizácii SAV: Mário Ziman
Trvanie projektu: 1.7.2023 / 30.6.2026
Evidenčné číslo projektu: APVV-22-0570
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

26.) Ternárne chalkogenidové perovskity pre fotovoltaiiku (*Ternary chalcogenide perovskites for photovoltaics*)

Zodpovedný riešiteľ: Matej Jergel
Trvanie projektu: 1.7.2024 / 30.6.2028
Evidenčné číslo projektu: APVV-23-0202
Organizácia je koordinátorom projektu: nie
Koordinátor: Univerzita Komenského v Bratislave, Prírodovedecká fakulta
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 7562 €

Dosiahnuté výsledky:

Chalkogenidové perovskity, konkrétne BaZrS₃, sa profilujú ako stabilné a netoxické alternatívy k olovnatým halogenidovým perovskitom pre fotovoltiku novej generácie. Tento projekt sa zameriava na optimalizáciu prípravy tenkých vrstiev BaZrS₃ s cieľom zhodnotiť ich základné fotoelektrické vlastnosti. Využitím zjednodušenej architektúry kov-polovodič-kov ITO/BaZrS₃/Ag sme skúmali mechanizmy fotogenerácie excitónov a rýchlosti rekombinácie závislé od elektrického poľa pri rôznych hodnotách predpätia. Tieto zistenia poskytujú kľúčové poznatky o dynamike nosičov náboja v BaZrS₃, čím vytvárajú základ pre vývoj vysokoúčinných solárnych článkov na báze chalkogenidov.

27.) Spintronika korelovaných systémov v materiáloch s proximity efektom

Zodpovedný riešiteľ: Denis Kochan
Trvanie projektu: 1.9.2025 / 31.8.2028
Evidenčné číslo projektu: APVV-24-0134
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

28.) Optimálna transportná vzdialenosť pre kvantové merania (*Optimal transport distance for quantum measurements*)

Zodpovedný riešiteľ: Leevi Ilmari Leppäjärvi
Trvanie projektu: 1.7.2023 / 30.6.2025
Evidenčné číslo projektu: SK-FR-22-0018
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Francúzsko: 1
Čerpané financie: APVV: 1325 €

Dosiahnuté výsledky:

29.) Pokročilé perovskitové solárne články s optimalizovanou pasiváciou a štruktúrou (*Towards Superior Perovskite-based Solar Cells via Optimized Passivation and Structure*)

Zodpovedný riešiteľ: Nad'a Mrk'ývková
Trvanie projektu: 1.7.2022 / 30.6.2026
Evidenčné číslo projektu: APVV-21-0297
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 29190 €

Dosiahnuté výsledky:

V roku 2025 boli realizované tieto aktivity a dosiahnuté výsledky:

- Pasiváciu defektov počas vzniku perovskitových vrstiev anorganickými prímiesmi
- Zlepšovanie optoelektronických a štruktúrnych vlastností tenkých perovskitových vrstiev pomocou nízkodimenzionálnych perovskitov s rôznou priestorovou orientáciou
- Povrchová pasivácia perovskitových vrstiev v solárnych článkoch s invertovanou architektúrou (p-i-n)
- Optimalizácia prenosu náboja v p-typovej vrstve v (celoperovskitových) tandemových solárnych článkoch
- Účasť na vedeckých konferenciách a prezentácia dosiahnutých výsledkov
- Publikácia nameraných výsledkov:

1. Huagui Lai, Jingwei Zhu, Rui-Tung Kuo, Urs Aeberhard, Zhan-Hong Lin, Nada Mrkyvkova, Jincheng Luo, Severin Siegrist, Philipp Wechsler, Chih-Jen Shih, Peter Siffalovic, Cong Chen, Ayodhya Tiwari, Tzu-Ying Lin, and Dewei Zhao: Tailored PEDOT:PSS Phase Segregation for High-Efficiency Flexible All-Perovskite Tandem Solar Cells and Mini-Modules. Nat. Commun. 2025, 16, 11468.
DOI: 10.1038/s41467-025-66479-0
IF: 15.7

2. Francesco Toniolo, Lorenzo Pancini, Aleksandra Oranskaia, Nada Mrkyvkova, Peter Siffalovic, Riccardo Pallotta, Matteo Degani, Filippo Doria, Udo Schwingenschlögl, and Giulia Grancini: Core Extended Conjugation in Thiophene-Based Cations Enables Open-Circuit Voltage Improvement in

Inverted Perovskite Solar Cells. Solar RRL 2025, 0:e202500582.
DOI: 10.1002/solr.202500582
IF: 4.7

3.Dmytro Vorontsov, Martin Ledinsky?, Ales? Vlk, Robert Hlavác?, Lucie Landová, Tereza Kos? utová, Karel Kníz?ek, Anna Fuc?íková, Nada Mrkyvkova, Peter Siffalovic, and Jan Valenta: Photoluminescence Quantum Yield Enhancement of FAPbBr₃ Thin Films via Ce Doping. J. Phys. Chem. C 2025, 129, 14190?14195.
DOI: 10.1021/acs.jpcc.5c03090
IF: 3.2

4.Vladimir Held, Nada Mrkyvkova, Yuriy Halahovets, Peter Nádaždy, Karol Vegso, Aleš Vlk, Martin Ledinský, Andrei Chumakov, Matthias Schwartzkopf, Frank Schreiber, and Peter Siffalovic: KCl-Mediated Defect Passivation in Vapor-Deposited Perovskites. ACS Appl. Mater. Interfaces 2025, 17, 30, 43877–43884.
DOI: 10.1021/acsami.5c09426
IF: 8.2

5.Junia S. Solomon, Nada Mrkyvkova, Vojt?ch Kliner, Tatiana Soto-Montero, Ismael Fernandez-Guillen, Martin Ledinský, Pablo P. Boix, Peter Siffalovic & Monica Morales-Masis: Oriented 2D Ruddlesden-Popper metal halides by pulsed laser deposition. NPJ 2D Mater. Appl. 2025, 9, 50.
DOI: 10.1038/s41699-025-00571-3
IF: 8.8

30.) Bezanódové tuholátkové lítiové batérie (*Zero-excess solid-state lithium batteries*)

Zodpovedný riešiteľ:	Vojtech Nádaždy
Trvanie projektu:	1.7.2023 / 31.12.2026
Evidenčné číslo projektu:	APVV-22-0132
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 29160 €

Dosiahnuté výsledky:

Náš výskum sa zameriaval na experimentálnu charakterizáciu kinetiky nukleácie a rastu lítia na čistých medených kolektoroch v porovnaní s med'ou modifikovanou tenkou vrstvou ITO. Identifikovali sme dva odlišné režimy rastu: počiatočný 3D ostrovčekovitý rast (Volmerov-Weberov mechanizmus), po ktorom nasleduje koalescencia týchto ostrovčekov do súvislého lítiového filmu. Tento prechod bol priamo vizualizovaný pomocou operando optickej mikroskopie a následne validovaný prostredníctvom fitovania operando EIS spektier pomocou náhradných elektrických obvodov. Okrem toho poskytla operando Ramanova spektroskopia komplementárne dôkazy o týchto štádiách rastu. Tu vyvinutá multimodálna operando platforma poskytuje robustný rámec pre racionálny návrh a výber litiofilných medzivrstiev pre bezanódové batérie s pevným elektrolytom.

31.) Zmeny mikroštruktúry a fyzikálnych vlastností zosieťovaných polymérov v objeme a v uväznených podmienkach makro- a mezopórov (*Changes of microstructure and physical properties of crosslinked polymers in bulk and under confined conditions of macro- and mesopores*)

Zodpovedný riešiteľ: Ondrej Šauša
Trvanie projektu: 1.7.2022 / 30.6.2026
Evidenčné číslo projektu: APVV-21-0335
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

32.) Konfigurácia viacerých laserov na doplnenie emisnej spektroskopie pre štúdie interakcií plazmy so stenou MW zosilnenie, fluorescencia a Raman (*Multi Laser Configuration to Complement Emission Spectroscopy for Plasma Wall Interaction Studies; MW Enhancement, Fluorescence and Raman*)

Zodpovedný riešiteľ: Peter Šiffalovič
Trvanie projektu: 1.7.2023 / 30.6.2027
Evidenčné číslo projektu: APVV-22-0548
Organizácia je koordinátorom projektu: nie
Koordinátor: Univerzita Komenského v Bratislave - Fakulta matematiky, fyziky a informatiky
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

V roku 2025 sme v spolupráci s hlavným riešiteľom uskutočnili analýzu pomocou Ramanovej spektroskopie na vrstvách deponovaných na komponentoch fúzneho zariadenia Joint European Torus (JET), ktoré sú v priamom kontakte s plazmou. Naše zistenia naznačujú, že Ramanova spektroskopia predstavuje komplementárnu metodiku k spektroskopii laserom indukovanej plazmy (LIBS). Integrácia týchto techník umožňuje komplexnejšie pochopenie chemického zloženia povrchových vrstiev, čo je kľúčové pre monitorovanie erózie materiálu vo fúzných reaktoroch.

33.) Mikrokapsuly na báze alginátu so zvýšenou stabilitou a biokompatibilitou pre enkapsuláciu pankreatických ostrovčiek v liečbe cukrovky (*Alginate-based microcapsules with enhanced stability and biocompatibility for encapsulation of pancreatic islets in diabetes treatment*)

Zodpovedný riešiteľ: Peter Šiffalovič
Trvanie projektu: 1.7.2023 / 30.6.2027
Evidenčné číslo projektu: APVV-22-0565
Organizácia je nie

koordinátorom projektu:**Koordinátor:** Ústav polymérov SAV, v. v. i.**Počet spoluriešiteľských** 0**inštitúcií:****Čerpané financie:** -Dosiahnuté výsledky:

V roku 2025 sme pokročili v systematickej charakterizácii polymérnych mikročastíc (beads) s využitím konfokálnej laserovej skenovacej mikroskopie (CLSM) a konfokálnej Ramanovej mikroskopie (CRM). Integrácia CLSM zobrazovania s vysokým rozlíšením a molekulárnej špecifickosti CRM umožňuje multidimenzionálnu analýzu vnútornej štruktúry častíc. Korelácia týchto súborov dát poskytuje kľúčové poznatky o mechanizmoch tvorby, ktoré určujú rôzne koncentračné profily. Tieto zistenia slúžia ako spätná väzba umožňujúca optimalizáciu a vývoj polymérnych riešení šitých na mieru pre konkrétne aplikácie.

34.) Pokročilé lítiové batérie s dlhou životnosťou (*Towards lithium based batteries with improved lifetime*)**Zodpovedný riešiteľ:** Peter Šiffalovič**Zodpovedný riešiteľ v** Peter Šiffalovič**organizácii SAV:****Trvanie projektu:** 1.7.2021 / 30.6.2025**Evidenčné číslo projektu:** APVV-20-0111**Organizácia je** nie**koordinátorom projektu:****Koordinátor:** Centrum pre využitie pokročilých materiálov SAV, v. v. i.**Počet spoluriešiteľských** 0**inštitúcií:****Čerpané financie:** -Dosiahnuté výsledky:

V roku 2025 sme úspešne ukončili tento projekt, pričom sme dosiahli dva kľúčové míľniky. Po prvé, zdokonalili sme metodiku operando röntgenovej difrakcie (XRD), ktorá umožňuje v reálnom čase monitorovať fázové premeny v lítium-železo-fosfátových (LFP) katódach počas elektrochemického cyklovania. Po druhé, úspešne sme implementovali technológiu atómovej depozície vrstiev (ALD) na vytvorenie konformných, ultratenkých ochranných vrstiev na LFP materiáloch. Tieto vrstvy výrazne potláčajú parazitné reakcie, čím zvyšujú cyklickú stabilitu a prevádzkovú životnosť LFP batériových systémov novej generácie.

35.) Pokročilé monitorovanie tuhohlátkových batérií v reálnom čase s cieľom zvýšiť ich výkon (*Operando Tracking of Solid-State Batteries for Enhanced Performance*)**Zodpovedný riešiteľ:** Peter Šiffalovič**Trvanie projektu:** 1.9.2025 / 31.8.2029**Evidenčné číslo projektu:** APVV-24-0321**Organizácia je** áno**koordinátorom projektu:****Koordinátor:** Fyzikálny ústav SAV, v. v. i.**Počet spoluriešiteľských** 0**inštitúcií:****Čerpané financie:** -

Dosiahnuté výsledky:

V počiatočnej fáze projektu sme zdokonalili metodiku pre operando XRD/GEIS charakterizáciu batérií s pevným elektrolytom (SSB). Optimalizovali sme operando cely s cieľom zvýšiť priepustnosť röntgenového žiarenia pri energii 22 keV (Ag Ka), čím sme zabezpečili lepší pomer signálu k šumu pre merania v laboratórnych podmienkach. Prvotná validácia sa uskutočnila na systéme NCM/LPSCI/InLi, pričom časovo rozlíšené XRD záznamy boli porovnané s referenčnými dátami zo synchrotrónu. Výsledky potvrdzujú, že v laboratórnom prostredí je možné získať vysokokvalitné štruktúrne informácie s časovým rozlíšením 300 sekúnd. Integrácia metódy operando GEIS navyše umožňuje sledovať vývoj elektrochemickej impedancie.

36.) Štúdium elektrónových vlastností 2D materiálov ultra presnými metódami kvantového Monte Carla (*Ultra high accuracy quantum Monte-Carlo study of electronic properties of 2D materials*)

Zodpovedný riešiteľ:	Ivan Štich
Zodpovedný riešiteľ v organizácii SAV:	Ivan Štich
Trvanie projektu:	1.7.2022 / 30.6.2025
Evidenčné číslo projektu:	APVV-21-0272
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav informatiky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 937 €

Dosiahnuté výsledky:

37.) Nové zliatiny s viacerými základnými prvkami – dizajn, charakterizácia a vlastnosti (*Novel multi-principal element alloys – design, characterization and properties*)

Zodpovedný riešiteľ:	Peter Švec
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0124
Organizácia je koordinátorom projektu:	nie
Koordinátor:	MTF STU Trnava
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 9357 €

Dosiahnuté výsledky:

Pomocou obecné platnej vyvinutej metodiky selekcie zložení a prípravy stredno a vysokoentropických zliatin (HEA) s využitím širokej škály ochladzovacích rýchlostí roztavenej zliatiny (rýchlym ochladením taveniny, liatím do kokíl rôznych foriem – valcové, kónické) sme v spolupráci vyvinuli systém strednoentropických zliatin Co-Ni-Cu v matici Zn. Z nich sme získali odstránením Zn pomocou tzv. vapor-phase de-alloying (VPD) pórovité viaczložkové 3d zliatiny prechodných kovov (Journal of Physical Studies a prednáška na konf. ISMANAM2025). Pomocou rtg. difrakcie sme ukázali, že v HEA skelete vzniká niekoľkých plošne orientovaných tuhých roztokov atómov prechodných kovov s malým množstvom ZnO. Ako prekursorové zliatiny boli použité tenké plechy vyrezané z objemových ingotov, ktoré odhalili výrazné výhody oproti

rýchlochladeným páskam použitým v našej predchádzajúcej práci. Najmä zloženie prekursorových ingotov je predvídateľnejšie, a teda bližšie k nominálnemu, čo umožňuje presnejšiu kontrolu chemického zloženia výsledných pórovitých zliatin po odparení zinku. Vyrobené pórovité materiály Co-Ni-Cu majú otvorenú poróznu štruktúru, čo z nich robí veľmi sľubných kandidátov na použitie ako katalyzátory v elektrochemických procesoch. Ukázalo sa, že pórovité zliatiny bohaté na nikel vykazujú katalytickú aktivitu v procesoch HER (reakcia vývoja vodíka) a OER (reakcii vývoja kyslíka). Sľubný výsledok sa dosiahol aj v súvislosti s aktivitou pórovitej zliatiny s prevažujúcim obsahom Co v reakcii OER.

38.) Príprava a vlastnosti magneticky tvrdých a mäkkých materiálov bez kritických prvkov pre trvalo udržateľný rozvoj (*Processing and performance of critical-elements-free hard and soft magnetic materials for sustainable development*)

Zodpovedný riešiteľ:	Peter Švec
Trvanie projektu:	1.7.2024 / 31.12.2027
Evidenčné číslo projektu:	APVV-23-0281
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 22280 €

Dosiahnuté výsledky:

Dopracovali a publikovali sme (Metals, 2025, 15, 966) detailnú štúdiu zameranú na overenie uskutočniteľnosti prípravy magneticky tvrdých fáz typu L10 FeNi v binárnom Fe-Ni a ternárnom Fe-Ni legovanom tretím prvkom (cca 5 at.% Mo alebo Al). Vzorky boli pripravené konvenčným odlieváním, liatím do kónickej kokily a rýchlym ochladením na overenie atomárneho usporiadania fáz Fe-Ni vznikajúcich v dôsledku rôznych metód odlievania a termomechanického spracovania (žíhanie, žíhanie v magn. poli, mechanické mletie pri rôznych teplotách a ultrarýchle mletie pri kryoteplotách. Cieľom bolo preskúmanie širokej škály energetických podmienok usporiadavania Fe a Ni na vznik usporiadania L10. Výsledná štruktúra a usporiadanie spracovaných vzoriek boli detailne analyzované o.i. pomocou in-situ difrakcie synchrotrónového žiarenia, metód chemicky rozlíšenej rastrovacej transmisnej elektrónovej mikroskopie (STEM/EDS, HAADF, ABF, ADF, SAED) a zobrazovaním pomocou metódy diferenciálneho fázového kontrastu (DPC-STEM – differential phase contrast) využívajúcej 4-kvadrantový detektor ADF (annular dark-field detector) zobrazujúcej aj malé zmeny elektrických a magnetických polí. Aj napriek získaniu cenných detailných informácií o mikroštruktúre na atomárnej úrovni a o lokálnom rozložení elektrických a magnetických polí a ich zmenách pod vplyvom rôznych použitých mechanizmov deformácií a anihilácii takýchto deformačných efektov termomechanickým spracovaním sa nepodarilo získať indikáciu prítomnosti hľadanej fázy L10. Je to aj indikácia, že ani takéto široké rozsahy použitých deformácií nie sú postačujúce na zvýšenie mobility Fe a Ni atómov potrebnej na vznik hľadaného usporiadania.

Podobnú štúdiu sme vykonali (ako súčasť pobytu stážistu – doktoranda z IMDEA Nanociencia/UA Madrid, konferenčné príspevky ISMANAM 2025, JEMS 2025) na rýchlochladených vzorkách Fe-Ni-P-C, kde sme pokúsili požadovaný efekt zvýšenia mobility Fe a Ni a “magnetické stvrdnutie” dosiahnuť riadením zmien štruktúry a žíhacích parametrov; i napriek absencii dôkazov o existencii fázy L10 sa podarilo dosiahnuť zvýšené hodnoty koercivity a magnetizácie v nasýtení (55.7 kA/m a 76-95 Am²/kg).

39.) Perspektívne elektrónové spinové systémy pre budúce kvantové technológie (*Perspective*

electronic spin systems for future quantum technologies)

Zodpovedný riešiteľ: Hana Vargová
Zodpovedný riešiteľ v organizácii SAV: Andrej Gendiar
Trvanie projektu: 1.7.2021 / 30.6.2025
Evidenčné číslo projektu: APVV-20-0150
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

40.) Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier
(Experimental investigation of deformation and electromagnetic properties of atomic nuclei)

Zodpovedný riešiteľ: Martin Venhart
Trvanie projektu: 1.7.2021 / 30.6.2025
Evidenčné číslo projektu: APVV-20-0532
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

41.) Mnonásobná tvarová koexistencia v nepárnych atómových jadrách

Zodpovedný riešiteľ: Martin Venhart
Trvanie projektu: 1.9.2025 / 30.6.2029
Evidenčné číslo projektu: APVV-24-0516
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

Programy: SASPRO

42.) Chrbticová sieť medzinárodnej kvantovej siete *(Backbone of an International Quantum Network)*

Zodpovedný riešiteľ: Djeylan Vincent Ceylan Aktas
Trvanie projektu: 1.10.2022 / 30.9.2025
Evidenčné číslo projektu: 1156/01/01
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

43.) Sekvenčné merania a nekompatibilita v operačných teóriách (*Sequential measurements and incompatibility in operational theories*)

Zodpovedný riešiteľ: Leevi Ilmari Leppäjärvi
Trvanie projektu: 1.9.2022 / 31.8.2025
Evidenčné číslo projektu: 1372/03/01
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

Programy: DoktoGrant

44.) Harmonic oscillator-inspired Particle Swarm Optimization applied to the Variational Quantum Eigensolver (*Harmonic oscillator-inspired Particle Swarm Optimization applied to the Variational Quantum Eigensolver*)

Zodpovedný riešiteľ: Yuri Chernyak
Trvanie projektu: 1.1.2025 / 31.12.2025
Evidenčné číslo projektu: APP0683
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

Programy: Ministerstvo školstva, vedy, výskumu a športu

45.) Tvarová koexistencia v izotopoch zlata (*Shape coexistence in odd-Au isotopes*)

Zodpovedný riešiteľ: Martin Venhart
Trvanie projektu: 1.1.2022 / 31.12.2026
Evidenčné číslo projektu:
Organizácia je áno
koordinátorom projektu:
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: -

Dosiahnuté výsledky:

Programy: IMPULZ

46.) Emergentné javy a spintronika supravodičov v systémoch s redukovanou dimenziou (*Superconducting spintronics and emergent phenomena in low/dimensional superconductors*)

Zodpovedný riešiteľ: Denis Kochan
Trvanie projektu: 1.5.2022 / 30.4.2027
Evidenčné číslo projektu: IM-2021-26
Organizácia je áno
koordinátorom projektu:
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: -

Dosiahnuté výsledky:

47.) Operačná kvantová termodynamika

Zodpovedný riešiteľ: Mohammad Hamed Mohammady
Trvanie projektu: 1.9.2024 / 31.8.2029
Evidenčné číslo projektu: IM-2023-79
Organizácia je áno
koordinátorom projektu:
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: -

Dosiahnuté výsledky:

Programy: Plán obnovy EÚ

48.) Tensor Network States: Algorithms and Applications (*Tensor Network States: Algorithms and Applications*)

Zodpovedný riešiteľ: Jozef Genzor
Trvanie projektu: 1.7.2024 / 30.6.2026
Evidenčné číslo projektu: 09I03-03-V04-00682
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

V rámci projektu sme dosiahli metodické aj aplikačné výsledky v oblasti tensor network algoritmov. Pripravili sme a sprístupnili 3 vedecké práce (arXiv:2506.17194; arXiv:2506.17053; arXiv:2003.09604).

Zverejnili sme aj otvorené numerické dáta k HOTRG výpočtom pre Isingov model na 3D fraktálnej mriežke (Zenodo DOI: 10.5281/zenodo.18099882).

Paralelne prebiehali práce na rukopise o 1D Hubbardovom modeli so spin-orbit coupling riešenom metódou DMRG (manuskript v príprave).

49.) Indefinite Order Beyond Low Energy (*Indefinite Order Beyond Low Energy*)

Zodpovedný riešiteľ: Natalia Salomé Móller
Trvanie projektu: 1.7.2024 / 30.6.2026
Evidenčné číslo projektu: 09I03-03-V04-00679
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

50.) Founding of A Quantum Computer group at IPSAS (*Founding of A Quantum Computer group at IPSAS*)

Zodpovedný riešiteľ: Martin Plesch
Trvanie projektu: 1.9.2024 / 31.8.2026
Evidenčné číslo projektu: 09I03-03-V04-00685
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

51.) Štipendiá pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine č. 1025/2022

Zodpovedný riešiteľ: Yuriy Plevachuk
Trvanie projektu: 1.1.2023 / 31.12.2025
Evidenčné číslo projektu: 09I03-03-V01-00047
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

52.) Štipendia pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine č. 1026/2022

Zodpovedný riešiteľ: Iryna Timchenko Prihodko
Trvanie projektu: 1.11.2022 / 31.10.2025
Evidenčné číslo projektu: 09I03-03-V01-00069
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

53.) Quantum entanglement network applications (Quantum entanglement network applications)

Zodpovedný riešiteľ: Mário Ziman
Trvanie projektu: 1.8.2024 / 31.7.2026
Evidenčné číslo projektu: 09I03-03-V04-00777
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

54.) Štipendia pre excelentných PhD. študentov a študentky (R1)

Zodpovedný riešiteľ: Mário Ziman
Trvanie projektu: 28.10.2023 /
Evidenčné číslo projektu: 09I03-03-V02-00015
Organizácia je koordinátorom projektu: áno

Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

Publikačná činnosť organizácie

Príloha je generovaná z ARL.

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

- ADCA01 ABRAHAM, Jisha Annie - MANZOOR, Mumtaz - SHARMA, Ramesh - SRIVASTAVA, Vipul - KUMAR, Abhinav - AL-BURIAHI, M. S. - ALI, H. Elhosiny. Computational Prediction on the Stability, Opto-electronic and Thermoelectric Properties of Double Perovskite Compound $\text{Sr}_2\text{CrBiO}_6$: a First Principles Investigation. In Journal of Inorganic and Organometallic Polymers and Materials, 2025, vol. 35, no. 5, p. 3896-3912. (2024: 4.9 - IF, Q1 - JCR, 0.697 - SJR, Q2 - SJR). ISSN 1574-1443. Dostupné na: <https://doi.org/10.1007/s10904-024-03500-x>
- ADCA02 ABRAHAM, Jisha Annie - SAXENA, Arti - KUMBHAKAR, Jaidev - SRIVASTAVA, Anshuman - IBRAHIM, Ahmed Ahmed - EL-MELIGY, Mohammed - MANZOOR, Mumtaz - SHARMA, Ramesh. First Principles Calculation on the Physical Attributes of Cubic Perovskites SbXO_3 (X = Al and Ga) for Renewable Energy Devices Application. In Journal of Inorganic and Organometallic Polymers and Materials, 2025, vol. 35, no. 7, p. 5876-5889. (2024: 4.9 - IF, Q1 - JCR, 0.697 - SJR, Q2 - SJR). ISSN 1574-1443. Dostupné na: <https://doi.org/10.1007/s10904-025-03628-4>
- ADCA03 ABRAHAM, Jisha Annie - MANZOOR, Mumtaz - AL-ASBAHI, Bandar Ali - SHARMA, Ramesh. Tweaking the structural, mechanical, electronic and thermodynamic features of rare earth based anti-perovskite nitrides ANLu_3 (A = Al, Ga). In Materials Today Communications, 2025, vol. 43, no. 11, art. no. 111684. (2024: 4.5 - IF, Q2 - JCR, 0.788 - SJR, Q1 - SJR). ISSN 2352-4928. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2025.111684>
- ADCA04 ALAYED, B. - PAGE, R. D. - JOSS, D. T. - UUSITALO, J. - QI, C. - BRISCOE, A. D. - ALAQEEL, M. A. M. - ANDEL, B. - ANTALIC, S. - AURANEN, K. - AYATOLLAHZADEH, H. - BADRAN, H. - BARBER, L. - BEETON, G. - BÍROVÁ, Monika - BOGDANOFF, V. - CUBISS, J. G. - CULLEN, D. M. - DEARY, J. - FORSBERG, U. - GRAHN, T. - GREENLEES, P. T. - HILTON, J. B. - ILLANA, A. - JOUKAINEN, H. - JUDSON, D. S. - JULIN, R. - JUTILA, H. - KEATINGS, J. M. - LABICHE, M. - LEINO, M. - LEWIS, M. C. - LOUKO, J. - LUOMA, M. - MARTEL, I. - MCCARTER, A. - MCKEE, P. P. - MOSAT, P. - NATHANIEL, S. N. - NEUVONEN, O. - O'DONNELL, D. - OJALA, J. - PAGE, C. A. A. - PLAZA, A. M. - PAKARINEN, J. - PAPADAKIS, P. - PARR, E. - PARTANEN, J. - RAHKILA, P. - ROMERO, J. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - SAYGI, B. - SMALLCOMBE, J. - SMITH, J. F. - SORRI, J. - SULLIVAN, C. M. - SZWEC, S. - TANN, H. - TOLOSA-DELGADO, A. - UUSIKYLÄ, E. - VENHART, Martin - WARING, L. J. - ZIMBA, G. Decay of a microsecond seniority 3 isomeric state in ^{155}Hf . In Physical Review C, 2024, vol. 110, no. 3, art. no. 034303. (2023: 3.2 - IF, Q2 - JCR, 1.223 - SJR, Q1 - SJR). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.034303>
- ADCA05 ALBUHAIRAN, Hassan Y. - MIHALKOVIČ, Marek - WIDOM, Michael. First-principles thermodynamics of Al_{10}V : An analytical treatment of localized anharmonic modes. In Physical Review B, 2025, vol. 112, no. 17, art. no. 174101. (2024: 3.7 - IF, Q2 - JCR, 1.303 - SJR, Q1 - SJR). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/pmhq-zhl9>

- ADCA06 ALI, Muhammad - KHAN, Qaisar - DIN, Muhammad Faraz Ud - KASI, Jafar Khan - KASI, Ajab Khan - ALI, Asif - ULLAH, Sami**. Simulation-based optimization of CdS/CdTe solar cells incorporating MXene-enhanced SnO₂ buffer layer: insights from experimentally validated material properties. In Solar Energy, 2025, vol. 294, art. no. 113510. (2024: 6.6 - IF, Q2 - JCR, 1.314 - SJR, Q1 - SJR). ISSN 0038-092X. Dostupné na: <https://doi.org/10.1016/j.solener.2025.113510>
- ADCA07 AMARO-ALCALÁ, David. Characterisation of Individual Gates Using Twirling Circuits. In Open Systems and Information Dynamics, 2025, vol. 32, no. 4, art. no. 2550016 [15] p. (2024: 1.6 - IF, Q2 - JCR, 0.533 - SJR, Q2 - SJR). ISSN 1230-1612. Dostupné na: <https://doi.org/10.1142/S1230161225500167>
- ADCA08 ASLAM, Muhammad - WASEEM, Zubair - JAMIL, Muhammad - MANZOOR, Mumtaz** - ZATSEPIN, Anatoly - ALMEER, Rafa - KUMAR, Yedluri Anil - SHARMA, Ramesh. Effect of Anion on Optoelectronic and Thermoelectric Properties Cubic Double Perovskites A₂(Sr, Ba)WMgO₆ for Low-Cost Energy Technologies: A Computational Simulation Study. In Journal of Inorganic and Organometallic Polymers and Materials, 2025, vol. 35, no. 4, p. 2440-2455. (2024: 4.9 - IF, Q1 - JCR, 0.697 - SJR, Q2 - SJR). ISSN 1574-1443. Dostupné na: <https://doi.org/10.1007/s10904-024-03376-x>
- ADCA09 BAGALE, Rupali - YESUPATHAM, Manova Santhosh - HAMBLI, Abdellah - SAHU, Subhankar** - RITZENTHALER, Christophe - AMIRI, Mandana - SPAGNOLO, Sandro - KÁLOSI, Anna - BASINI, Francesco - HAPPY, Henri - BOUKHERROUB, Rabah - KNOLL, Wolfgang - HIANIK, Tibor - MAJKOVÁ, Eva - ŠIFFALOVÍČ, Peter - CORRADINI, Roberto - MONTAIGNE, David - WOITRAIN, Eloise - HVIZDOŠOVÁ, Adriana, Annušová** - SZUNERITS, Sabine. Point-of-care applicability of graphene-based field effect transistors upon modification with a pyrene-tagged antifouling copolymer: Application for cTnI sensing in blood. In ACS Sensors, 2025, vol. 10, no. 9, p. 7072-7083. (2024: 9.1 - IF, Q1 - JCR, 1.757 - SJR, Q1 - SJR). ISSN 2379-3694. Dostupné na: <https://doi.org/10.1021/acssensors.5c02191>
- ADCA10 BARTOŠ, Erik** - DUBNIČKA, Stanislav - DUBNIČKOVÁ, Anna Zuzana - HOLKA, Lukáš. Prediction of Some Meson Physical Quantities by Analytic Continuation from Time-Like to Space-Like Region. In International Journal of Theoretical Physics, 2025, vol. 64, no. 12, art. no. 324. (2024: 1.7 - IF, Q3 - JCR, 0.276 - SJR, Q3 - SJR). ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-025-06197-x>
- ADCA11 BERONSKÁ, Nad'a - GEBURA, Marek** - DVORÁK, Tomáš - ČAVOJSKÝ, Miroslav - HÁJOVSKÁ, Zuzana - ŠVEC, Peter Jr. - ŠVEC, Peter - KARAFFA, Lukáš - POSPÍŠILOVÁ, Eva. Performance evaluation and oxide layer characterization of self-protective Cu/W–La₂O₃ composite electrodes prepared by gas pressure infiltration for continuous arcing in air. In Journal of Physics D: Applied Physics, 2025, vol. 58, art. no. 185307. (2024: 3.2 - IF, Q2 - JCR, 0.65 - SJR, Q1 - SJR). ISSN 0022-3727. Dostupné na: <https://doi.org/10.1088/1361-6463/adc316>
- ADCA12 BERTOLLA, Luca** - TAVERI, Gianmarco - MÁCOVÁ, P. - SOTIRIADIS, K. - ŠIŠKA, F. - NÁDAŽDY, Vojtech. Improving the cellulose/metakaolin geopolymer composite properties through a novel low-water approach. In Materials Letters, 2025, vol. 383, art. no. 137967. (2024: 2.7 - IF, Q3 - JCR, 0.591 - SJR, Q2 - SJR). ISSN 0167-577X. Dostupné na: <https://doi.org/10.1016/j.matlet.2024.137967>
- ADCA13 BÉTERMIN, Laurent - ŠAMAJ, Ladislav - TRAVĚNEC, Igor. Equidistant versus bipartite ground states for 1D classical fluids at fixed particle density. In Analysis and Mathematical Physics, 2025, vol. 15, no. 4, art. no. 88. (2024: 1.6 - IF, Q1 - JCR, 0.846 - SJR, Q1 - SJR). ISSN 1664-2368. Dostupné na: <https://doi.org/10.1007/s13324-025-01076-4>

- ADCA14 BINDI, Luca - CABRI, Louis J. - MIHALKOVIČ, Marek - LAUFEK, Frantisek - KRIVOVICHEV, Sergey V. Discovery of an Earthborn quasicrystal approximant. In American Mineralogist, 2025, vol. 110, no. 4, p. 650-654. (2024: 2.3 - IF, Q2 - JCR, 0.982 - SJR, Q1 - SJR). ISSN 0003-004X. Dostupné na: <https://doi.org/10.2138/am-2024-9679>
- ADCA15 BLUHM, Andreas - LEPPÄJÄRVI, Leevi - NECHITA, Ion. On the simulation of quantum multimeters. In Quantum : the open journal for quantum science, 2025, vol. 9, art. no. 1608. (2024: 5.4 - IF, Q1 - JCR, 2.526 - SJR, Q1 - SJR). ISSN 2521-327X. Dostupné na: <https://doi.org/10.22331/q-2025-01-27-1608>
- ADCA16 BOHÁČIK, Juraj** - PREŠNAJDER, P. Summation of the infinite series in path integral of ϕ^4 theory. In Journal of Mathematical Physics, 2025, vol. 66, no. 11, art. no. 113501. (2024: 1.4 - IF, Q3 - JCR, 0.647 - SJR, Q2 - SJR). ISSN 0022-2488. Dostupné na: <https://doi.org/10.1063/5.0248182>
- ADCA17 BUJDÁK, Radovan - DERZSI, Mariana - TOKÁR, Kamil. Identity of Oxygen-Rich Nickel Oxides as Oxosuperoxides and Oxoperoxides and Their Heterostructures. In Inorganic Chemistry, 2025, vol. 64, no. 30, p. 15402-15412. (2024: 4.7 - IF, Q1 - JCR, 0.958 - SJR, Q1 - SJR). ISSN 0020-1669. Dostupné na: <https://doi.org/10.1021/acs.inorgchem.5c01477>
- ADCA18 CAN, Hava - FATMA NUR CELIK, Kutlu - ŠVEC, Peter - ŠKORVÁNEK, Ivan - SÖZERI, Huseyin - DOGAN, Cetin - TOPAL, Ugur**. Critical Design and Characterization Methodology for a Homemade Three-Axis Fluxgate Magnetometer Measuring Ultra-Low Magnetic Fields. In Sensors, 2025, vol. 25, no. 13, art.no. 3971. (2024: 3.5 - IF, Q2 - JCR, 0.764 - SJR, Q1 - SJR). ISSN 1424-8220. Dostupné na: <https://doi.org/10.3390/s25133971>
- ADCA19 CASTILLO, Adán - PINEDA, Carlos - NAVARRETE, Erick Sebastián - DAVALOS, David. Coarse-grained dynamics in quantum many-body systems using the maximum entropy principle. In Physical Review A, 2025, vol. 112, no. 3, art. no. 032204. (2024: 2.9 - IF, Q2 - JCR, 1.033 - SJR, Q1 - SJR). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/physreva.112.032204>
- ADCA20 CIFRANIČOVÁ, Katarína** - ŠAUŠA, Ondrej - ROSSKOPFOVÁ, Oľga - SEDNIČKOVÁ, Michaela - ŠVAJDLENKOVÁ, Helena**. Analysis of monomer ratios in a dimethacrylate mixture using positron annihilation spectroscopy. In Scientific Reports, 2025, vol. 16, no. 1, art.no. 20494, [8] p. (2024: 3.9 - IF, Q1 - JCR, 0.874 - SJR, Q1 - SJR). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-025-04254-3>
- ADCA21 ČECHOVÁ, Katarína** - ŠTIBRÁNIOVÁ, Iveta - GÁLFIOVÁ, Paulína - BALCERZAK, Łucja - KLBIK, Ivan - KOSNÁČ, Daniel - WACZULÍKOVÁ, Iveta - ŠIKUROVÁ, Libuša. Effects of DMSO concentration on cryopreservation-induced stress in keratinocytes. In Cryo-Letters, 2025, vol. 46, no. 6, p. 405-415. (2024: 0.9 - IF, Q3 - JCR, 0.27 - SJR, Q3 - SJR). ISSN 0143-2044. Dostupné na: <https://doi.org/10.54680/fr25610110412>
- ADCA22 ČERNÍČKOVÁ, Ivona - ĎURIŠKA, Libor - DRIENOVSKÝ, Marián - PLEVACHUK, Yuriy - ŠVEC, Peter - DANIŠOVIČOVÁ, Patrícia - MACHAJDÍKOVÁ, Tereza - MORAVČÍK, Roman - ČIČKA, Roman. Influence of gallium addition on the microstructure, thermal behavior, mechanical and electrical properties of SAC305 lead-free solder and solder joints. In Journal of Materials Research and Technology-JMR&T, 2025, vol. 39, p. 528-547. (2024: 6.6 - IF, Q1 - JCR, 1.318 - SJR, Q1 - SJR). ISSN 2238-7854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2025.09.096>
- ADCA23 DA SILVA, Valmir Rodrigo - FJELLVÅG, Øystein Slagtern - ŠVEC, Peter - ŠVEC, Peter Jr. - HAUBACK, Bjørn Christian - DELEDDA, Stefano. The Effect of Mo and Al Substitution in Cryomilled and Cold-Rolled FeNi Alloys. In Metals-Basel, 2025,

- vol. 15, no. 9, art. no. 996. (2024: 2.5 - IF, Q2 - JCR, 0.586 - SJR, Q2 - SJR). ISSN 2075-4701. Dostupné na: <https://doi.org/10.3390/met15090996>
- ADCA24 DIXIT, Aparna - SAXENA, Arti - MANZOOR, Mumtaz** - SAHID, Sadaf - SHARMA, Ramesh - IBRAHIM, Ahmed Ahmed - EL-MELIGY, Mohammad A. - ABDULLAEVA, Barno - SRIVASTAVA, Vipul. DFT-Based Investigation of Opto-Electronic, Mechanical, and Thermoelectric Properties of Sr₂YBiO₆ for Green Energy Applications. In Journal of Inorganic and Organometallic Polymers and Materials, 2025, vol. 35, no. 8, p. 7008-7027. (2024: 4.9 - IF, Q1 - JCR, 0.697 - SJR, Q2 - SJR). ISSN 1574-1443. Dostupné na: <https://doi.org/10.1007/s10904-025-03710-x>
- ADCA25 DOGAN, Serap - BARAN, Ayse - BARAN, Mehmet Firat - EFTEKHARI, Aziz - KHALILOV, Rovshan - ALIYEV, Elvin - KAVETSKYY, Taras** - ŠAUŠA, Ondrej - SMUTOK, Oleh. Silver Nanoparticles for Anticancer and Antibacterial Therapy: A Biogenic and Easy Production Strategy. In ChemistrySelect, 2025, vol. 10, no. 3, art. no. e202404453. (2024: 2 - IF, Q3 - JCR, 0.366 - SJR, Q3 - SJR). ISSN 2365-6549. Dostupné na: <https://doi.org/10.1002/slct.202404453>
- ADCA26 DUBNIČKOVÁ, A.-Z. - DUBNIČKA, Stanislav - WEISENPACHER, Peter. Damped oscillation regular structures from the deuteron effective electromagnetic form factor data. In Physical Review D, 2025, vol. 112, no. 11, art. no. 113002. (2024: 5.3 - IF, Q1 - JCR, 1.458 - SJR, Q1 - SJR, karentované - CCC). (2025 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: <https://doi.org/10.1103/wn5j-m7l5>
- ADCA27 ERUM, Nazia - AHMAD, Javed - MANZOOR, Mumtaz - SHARMA, Ramesh - KHAN, Mohammad Rashid. Band gap engineering of novel double perovskites Na₂LiYX₆ (X=Cl, Br) through halide ion replacement for solar cell and energy harvesting applications. In Materials Science and Engineering B - Solid-State Materials for Advanced Technology, 2024, vol. 310, no. 11, art. no. 117678. (2023: 3.9 - IF, Q2 - JCR, 0.647 - SJR, Q2 - SJR, karentované - CCC). (2024 - Current Contents). ISSN 0921-5107. Dostupné na: <https://doi.org/10.1016/j.mseb.2024.117678>
- ADCA28 FABUŠOVÁ, Diana - DERZSI, Mariana - TOKÁR, Kamil. Metal–metal interactions in an open d-shell system with cuprite structure. In Chemical Communication, 2025, vol. 61, no. 77, p. 14939-14942. (2024: 4.2 - IF, Q2 - JCR, 1.037 - SJR, Q1 - SJR). ISSN 1359-7345. Dostupné na: <https://doi.org/10.1039/d5cc01847a>
- ADCA29 FALETIC, Sergej - KYULDJIEV, Assen - LINDNER, Thomas - SCHNIDER, Dorottya - IZSA, Éva - HÖMÖSTREI, Mihály - JENEI, Péter - ANEVA, Boyka - IVANOVA, Daniela D. - NĚMEC, Hynek - KUNDRACIK, František - PLESCH, Martin**. Development of soft and hard skills of high-school students via Young Physicists' Tournament. In European Journal of Physics, 2025, vol. 46, no. 5, art. no. 055804 [14 pp]. (2024: 0.8 - IF, Q3 - JCR, 0.339 - SJR, Q2 - SJR). ISSN 0143-0807. Dostupné na: <https://doi.org/10.1088/1361-6404/adedd6>
- ADCA30 FILIP, Peter - REVALLO, Miloš - FOJTÍKOVÁ, Lucia. Vorticity-induced magnetization of paramagnetic fluids in Taylor–Couette flow. In Journal of Magnetism and Magnetic Materials, 2025, vol. 627, no. 17, art. no. 173062. (2024: 3 - IF, Q2 - JCR, 0.521 - SJR, Q2 - SJR). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2025.173062>
- ADCA31 GHOREISHI, Seyed Arash - SCALA, Giovanni - RENNER, Renato - TACCA, Letícia Lira - BOUDA, Jan - WALBORN, Stephen Patrick - PAWŁOWSKI, Marcin. The future of secure communications: device independence in quantum key distribution. In Physics Reports : review section of physics letters, 2025, vol. 1149, p. 1-97. (2024: 29.5 - IF, Q1 - JCR, 5.735 - SJR, Q1 - SJR). ISSN 0370-1573. Dostupné na: <https://doi.org/10.1016/j.physrep.2025.09.006>

- ADCA32 GMUCA, Štefan** - KLIMAN, Ján. Fabrication of oxygen-rich targets for elastic backscattering applications using the high-energy vibrational powder plating method. In Nuclear Instruments and Methods in Physics Research A. Accelerators, Spectrometers, Detectors and Associated Equipment, 2025, vol. 1073, art. no. 170278. (2024: 1.4 - IF, Q3 - JCR, 0.451 - SJR, Q2 - SJR). ISSN 0168-9002. Dostupné na: <https://doi.org/10.1016/j.nima.2025.170278>
- ADCA33 GMUCOVÁ, Katarína** - NÁDAŽDY, Vojtech. A Relationship Between Semiconducting Thin Film's Electronic Structure Heterogeneity and Defect Tolerance. In Small methods, 2025, vol. 9, no. 4, art. no. 2401231. (2024: 9.1 - IF, Q1 - JCR, 2.638 - SJR, Q1 - SJR). ISSN 2366-9608. Dostupné na: <https://doi.org/10.1002/smtd.202401231>
- ADCA34 GUHA, Pritam** - SHAH, Rushita - KRONEKOVÁ, Zuzana - SHAALAN, Mohamed Ibrahim - VYKYDALOVÁ, Anna - KLEINOVÁ, Angela - HOFBAUEROVÁ, Monika, Benkovičová - HALAHOVETS, Yuriy - RAGAB, Ahmed - ŠPITÁLSKY, Zdenko - ŠIFFALOVÍČ, Peter - KRONEK, Juraj**. Tailoring 2-oxazoline based digradient copolymers for rifampicin delivery: Synthesis, physicochemical properties, and colloidal behavior. In European Polymer Journal, 2025, vol. 233, art. no. 113964, [21] p. (2024: 6.3 - IF, Q1 - JCR, 1.076 - SJR, Q1 - SJR). ISSN 0014-3057. Dostupné na: <https://doi.org/10.1016/j.eurpolymj.2025.113964>
- ADCA35 GÜNES, Müslüm - ERTAS, Erdal - TUMUR, Seyhmus - ZULFUGAROVA, Parvin - NURIYEVA, Fidan - KAVETSKYY, Taras** - KUKHAZ, Yuliia - GROZDOV, Pavlo - ŠAUŠA, Ondrej - SMUTOK, Oleh - GANBAROV, Dashgin - KIV, Arnold. Synthesis and Antibacterial Evaluation of Silver-Coated Magnetic Iron Oxide/Activated Carbon Nanoparticles Derived from Hibiscus esculentus. In Magnetochemistry, 2025, vol. 11, no 7., art. no. 53. (2024: 2.5 - IF, Q2 - JCR, 0.433 - SJR, Q2 - SJR). ISSN 2312-7481. Dostupné na: <https://doi.org/10.3390/magnetochemistry11070053>
- ADCA36 HELD, Vladimír** - MRKÝVKOVÁ, Naďa, Tesařová** - HALAHOVETS, Yuriy - NÁDAŽDY, Peter - VÉGSÖ, Karol - VLK, A. - LEDINSKÝ, M. - CHUMAKOV, A. - SCHWARTZKOPF, Matthias - SCHREIBER, F. - ŠIFFALOVÍČ, Peter. KCl-mediated defect passivation in vapor-deposited perovskites. In ACS Applied Materials & Interfaces, 2025, vol. 17, no. 30, p. 43877-43884. (2024: 8.2 - IF, Q1 - JCR, 1.921 - SJR, Q1 - SJR). ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.5c09426>
- ADCA37 CHOUHAN, Hemendra - DOBROČKA, Edmund - NÁDAŽDY, Peter - ĽAPAJNA, Milan - HUŠEKOVÁ, Kristína - CORA, Ildikó - ROSOVÁ, Alica - MIKOLÁŠEK, M. - EGYENES, Fridrich - KESHTKAR, Javad - HRUBIŠÁK, Fedor - SOBOTA, Michal - ŠIFFALOVÍČ, Peter - GREGUŠOVÁ, Dagmar - POHORELEC, Ondrej - WOSKO, M. - PASZKIEWICZ, R. - GUCMANN, Filip**. Rotational domains and origin of improved crystal quality in heteroepitaxial (201) β -Ga₂O₃ films grown on vicinal substrates by MOCVD. In Journal of Alloys and Compounds, 2025, vol. 1044, art. no. 184481. (2024: 6.3 - IF, Q1 - JCR, 1.192 - SJR, Q1 - SJR, karentované - CCC). (2025 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2025.184481>
- ADCA38 JAMIL, Muhammad - SALMAN, Muhammad - MANZOOR, Mumtaz** - SHARMA, Ramesh - SAADAoui, Salah - SAIDANI, Taoufik. A comprehensive investigation of electronic structure, optical, and thermoelectric response of AcYTe₂ (Y = Ag, Cs) full Heusler alloys. In Inorganic Chemistry Communications, 2025, vol. 177, no. 11, art. no. 114308. (2024: 5.4 - IF, Q1 - JCR, 0.758 - SJR, Q1 - SJR). ISSN 1387-7003. Dostupné na: <https://doi.org/10.1016/j.inoche.2025.114308>
- ADCA39 KALINAY, Pavol. Effective dynamics of a particle diffusing in time-dependent

- confinement. In Physical Review E, 2025, vol. 111, no. 1, art. no. 014117. (2024: 2.4 - IF, Q1 - JCR, 0.705 - SJR, Q2 - SJR). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.111.014117>
- ADCA40 KALINAY, Pavol**. Rocking ratchet revisited via the Stratonovich formula. In Physical Review E, 2025, vol. 112, no. 6, art. no. 064123. (2024: 2.4 - IF, Q1 - JCR, 0.705 - SJR, Q2 - SJR). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/7cy4-p5tx>
- ADCA41 KENDROVÁ, Dominika - GAŠPAROVÁ, Marcela - ECKSTEIN ANDICSOVÁ, Anita - VÁRY, Tomáš - TOKÁR, Kamil - TOKÁROVÁ, Zita. The Influence of the Isosteric Exchange of Benzene by Thiophene-Core of Phthalocyanine: The Synthesis, Structure and Opto- Electronic Behavior of π - Conjugated. In Journal of Heterocyclic Chemistry, 2025, vol. 62, no. 1, p. 13-24. (2024: 2.4 - IF, Q2 - JCR, 0.362 - SJR, Q3 - SJR). ISSN 0022-152X. Dostupné na: <https://doi.org/10.1002/jhet.4921>
- ADCA42 KHERA, Ejaz Ahmad - NAZIR, Abrar - AHMED, Zubair - MANZOOR, Mumtaz - ULLAH, Hamid - ANSAR, Sabah - KUMAR, Yedluri Anil - SHARMA, Ramesh. Computational Prediction of Structural, Optoelectronic, Thermodynamic, and Thermoelectric Response of the Cubic Perovskite RbTmCl₃ via DFT-mBJ+ SOC Studies. In Physica status solidi B. Basic solid state physics, 2025, vol. 262, no. 1, art. no. 2400123. (2024: 1.8 - IF, Q3 - JCR, 0.382 - SJR, Q3 - SJR). ISSN 0370-1972. Dostupné na: <https://doi.org/10.1002/pssb.202400123>
- ADCA43 KHERA, Ejaz Ahmad - NAZI, Abrar - MUMTAZ, Umair - MANZOOR, Mumtaz - MAJEED, Abdul - ULLAH, Hamid - KEBAILI, Imen - SHARMA, Ramesh. An ab-initio investigation of physical characteristics of GdSc_{1-x}Tm_xO₃(TM=Ti; x=0.25, 0.5, 0.75) for photo influenced (NIR)memory storage and allied devices. In Materials science in semiconductor processing, 2024, vol. 184, no. 10, art. no. 108799. (2023: 4.2 - IF, Q2 - JCR, 0.732 - SJR, Q1 - SJR). ISSN 1369-8001. Dostupné na: <https://doi.org/10.1016/j.mssp.2024.108799>
- ADCA44 KHMARA, Iryna** - KUBOVČÍKOVÁ, Martina - MOLČAN, Matúš - GIRMAN, Vladimír - FABIÁN, Martin - HREUS, Katarína - ZÁVIŠOVÁ, Vlasta - KONERACKÁ, Martina. Comparative characterization of structural, magnetic properties, and heating efficiency of single- and multicore iron oxide nanoparticles. In IEEE Transactions on Magnetics, 2025, vol.61, no.11, p.1-5. (2024: 1.9 - IF, Q3 - JCR, 0.729 - SJR, Q2 - SJR). ISSN 0018-9464. Dostupné na: <https://doi.org/10.1109/TMAG.2025.3618008>
- ADCA45 KOCHAN, Denis - STRUNK, Christoph. Low-loss electronics with superconducting diodes. In Nature Electronics, 2025, vol. 8, no. 5, p. 380-381. (2024: 40.9 - IF, Q1 - JCR, 11.082 - SJR, Q1 - SJR). ISSN 2520-1131. Dostupné na: <https://doi.org/10.1038/s41928-025-01388-0>
- ADCA46 KOKKONEN, Henna - AURANEN, Kalle - SIWACH, Pooja - ARUMUGAM, Paramasivan - BRISCOE, Andrew D. - EECKHAUDT, Sarah - FERREIRA, Lidia S. - GRAHN, Tuomas - GREENLEES, Paul T. - JONES, Pete - JULIN, Rauno - JUUTINEN, Sakari - LEINO, Matti - LEPPÄNEN, Ari-Pekka - MAGLIONE, Enrico - NYMAN, Markus - PAGE, Robert D. - PAKARINEN, Janne - RAHKILA, Panu - SARÉN, Jan - SCHOLEY, Catherine - SORRI, Juha - UUSITALO, Juha - VENHART, Martin. New proton emitter 188At implies an interaction unprecedented in heavy nuclei. In Nature Communications, 2025, vol. 16, no. 1, art. no. 4985. (2024: 15.7 - IF, Q1 - JCR, 4.761 - SJR, Q1 - SJR). ISSN 2041-1723. Dostupné na: <https://doi.org/10.1038/s41467-025-60259-6>
- ADCA47 KUMARI, Anjali - ABRAHAM, Jisha Annie - SREELEKSHMI, C. - MANZOOR, Mumtaz - KUMAR, Abhinav - MISHRA, Abhishek Kumar - FOUAD, Dalia - KUMAR, Yedluri Anil - SHARMA, Ramesh. Ab-initio investigation of novel lead-

free halide based Rb_2CsXI_6 ($\text{X} = \text{Ga}, \text{In}$) double perovskites: Mechanical, structural, thermoelectric, and optoelectronic potential for photovoltaics and green energy applications. In *Materials Science and Engineering B - Solid-State Materials for Advanced Technology*, 2024, vol. 310, no. 11, art. no. 117708. (2023: 3.9 - IF, Q2 - JCR, 0.647 - SJR, Q2 - SJR, karentované - CCC). (2024 - Current Contents). ISSN 0921-5107. Dostupné na: <https://doi.org/10.1016/j.mseb.2024.117708>

- ADCA48 LAI, Henry - ZHU, J. - KUO, R.-T. - AEGERHARD, U. - LIN, Z.-Y. - MRKÝVKOVÁ, Nad'a, Tesařová - LUO, Yating - SIEGRIST, S. - WECHSLER, P. - SHIH, J. C. - ŠIFFALOVIČ, Peter - CHEN, C. - TIWARI, A.N. - LIN, Y. - ZHAO, H. - FU, M. Tailored PEDOT: PSS phase segregation for high-efficiency flexible all-perovskite tandem solar cells and mini-modules. In *Nature Communications*, 2025, vol. 16, art.no. 11468. (2024: 15.7 - IF, Q1 - JCR, 4.761 - SJR, Q1 - SJR). ISSN 2041-1723. Dostupné na: <https://doi.org/10.1038/s41467-025-66479-0>
- ADCA49 LAI, Huagui - ZHU, Jingwei - KUO, Rui-Tung - AEGERHARD, Urs - LIN, Zhan-Hong - MRKÝVKOVÁ, Nad'a, Tesařová - LUO, Jincheng - SIEGRIST, Severin - WECHSLER, Philipp - SHIH, Chih-Jen - ŠIFFALOVIČ, Peter - CHEN, Cong - TIWARI, Ayodhya Nath - LIN, Tzu-Ying - ZHAO, Dewei - FU, Fan. Tailored PEDOT:PSS phase segregation for high-efficiency flexible all-perovskite tandem solar cells and mini-modules. In *Nature Communications*, 2025, vol. 16, no. 1, art. no. 11468. (2024: 15.7 - IF, Q1 - JCR, 4.761 - SJR, Q1 - SJR). ISSN 2041-1723. Dostupné na: <https://doi.org/10.1038/s41467-025-66479-0>
- ADCA50 LEONENKO, Evgen - TELBIZ, German - VLASENKO, Nina - KAVETSKYY, Taras - SMUTOK, Oleh - ŠAUŠA, Ondrej - KIV, Arnold - SMERTENKO, Petro - KULIK, Tetiana - STRIZHAK, Peter. Improving proton conductivity and acid-base properties of mesoporous titania microspheres via controlled hydrolysis of titanium alkoxide in the presence of sulfuric acid. In *Inorganic Chemistry Communications*, 2025, vol. 175, no. 11, art. no. 114125. (2024: 5.4 - IF, Q1 - JCR, 0.758 - SJR, Q1 - SJR). ISSN 1387-7003. Dostupné na: <https://doi.org/10.1016/j.inoche.2025.114125>
- ADCA51 LI, Zhaoyi - CRESP, M. - VÉGSŐ, Karol - MRKÝVKOVÁ, Nad'a, Tesařová - ŠIFFALOVIČ, Peter - PAUPORTÉ, T.**. Quasi-2D Ruddlesden-Popper phase induced preferentially oriented $\text{FA}_{1-x}\text{MA}_x\text{PbI}_3$ for high-performance sequential perovskite solar cells. In *Chemical Engineering Journal*, 2025, vol. 505, art. no. 159121. (2024: 13.2 - IF, Q1 - JCR, 2.696 - SJR, Q1 - SJR). ISSN 1385-8947. Dostupné na: <https://doi.org/10.1016/j.cej.2024.159121>
- ADCA52 LIPTAJ, Andrej**. Approximation by Power Series of Functions. In *Axioms*, 2025, vol. 14, no. 8, art. no. 645. (2024: 1.6 - IF, Q2 - JCR). ISSN 2075-1680. Dostupné na: <https://doi.org/10.3390/axioms14080645>
- ADCA53 LIU, Yibo - FA, Changzeng - XU, Zhefeng - FU, Ruidong - KE, Feng - WANG, Lin - WEN, Bin - ZHANG, Lifeng - MIHALKOVIČ, Marek - XU, Bo. Physical properties of high-pressure synthesized $\text{Al}_{65}\text{Cu}_{20}\text{Fe}_{15}$ quasicrystal. In *Chinese Physics B*, 2025, vol. 34, no. 9, art. no. 096103. (2024: 1.5 - IF, Q3 - JCR, 0.328 - SJR, Q3 - SJR). ISSN 1674-1056. Dostupné na: <https://doi.org/10.1088/1674-1056/add4fb>
- ADCA54 MANGIOROU, E. - STEFANI, C. - DAMATOPOULOU, T. - AGGELOPOULOS, S. - ŠVEC, Peter - MUSMARRA, D. - XANTHAKIS, J. P. - K TENA, A. - HRISTOFOROU, E. Large Magnetoresistance in Magnetite Pellets. In *IEEE Transactions on Magnetics*, 2025, vol. 61, no. 6, art. no. 4400505. (2024: 1.9 - IF, Q3 - JCR, 0.729 - SJR, Q2 - SJR). ISSN 0018-9464. Dostupné na: <https://doi.org/10.1109/TMAG.2025.3544464>
- ADCA55 MANZOOR, Mumtaz - SHARMA, Ramesh - KUMARI, Preeti - AL-ASBAHI, Bandar Ali - KUMAR, Yedluri Anil - ULLAH, Hamid. A Comprehensive DFT Insight on Thermoelectric Response of Halide Perovskites TlGeZ_3 ($\text{Z} = \text{Cl}, \text{Br}$ and I)

for Renewable Energy Devices. In Journal of Inorganic and Organometallic Polymers and Materials, 2025, vol. 35, no. 7, p. 5287-5300. (2024: 4.9 - IF, Q1 - JCR, 0.697 - SJR, Q2 - SJR). ISSN 1574-1443. Dostupné na:

<https://doi.org/10.1007/s10904-024-03587-2>

- ADCA56 MANZOOR, Mumtaz** - TEWARI, Anurag - ANSAR, Sabah - KUMAR, Yedluri Anil - SHARMA, Ramesh. A DFT Calculations of Mechanical, Optoelectronic and Transport Properties of Cubic AMgI3 (A=Li/Na) Halides for Photovoltaic and Energy Conversion Applications. In Journal of Inorganic and Organometallic Polymers and Materials, 2025, vol. 35, no. 2, p. 795-812. (2024: 4.9 - IF, Q1 - JCR, 0.697 - SJR, Q2 - SJR). ISSN 1574-1443. Dostupné na: <https://doi.org/10.1007/s10904-024-03315-w>
- ADCA57 MANZOOR, Mumtaz - ABRAHAM, Jisha Annie - SHARMA, Ramesh - ASLAM, Muhammad - KUMAR, Abhinav - ALMUTAIRI, Fahad N. - JERIDI, Mouna - ULLAH, Hamid. Probing the Optoelectronic and Thermoelectric Performance of Inorganic Halide Perovskite Rb2KInI6 for Renewable Energy Applications via DFT Computations. In Journal of Inorganic and Organometallic Polymers and Materials, 2025, vol. 35, no. 5, p. 3296-3312. (2024: 4.9 - IF, Q1 - JCR, 0.697 - SJR, Q2 - SJR). ISSN 1574-1443. Dostupné na: <https://doi.org/10.1007/s10904-024-03456-y>
- ADCA58 MANZOOR, Mumtaz - ABRAHAM, Jisha Annie - ASLAM, Muhammad - AL-ASBAHI, Bandar Ali - SHARMA, Ramesh. A comprehensive DFT study on the physical attributes of Li based Half-Heusler compounds LiYXZ (X = Pt, Pd; Z = Si, Ge). In Solid State Communications, 2025, vol. 400, no. 11, art. no. 115875. (2024: 2.4 - IF, Q3 - JCR, 0.446 - SJR, Q2 - SJR). ISSN 0038-1098. Dostupné na: <https://doi.org/10.1016/j.ssc.2025.115875>
- ADCA59 MANZOOR, Mumtaz** - JAMIL, Muhammad - SEHGAL, Lakshita - SHARMA, Ramesh - IBRAHIM, Ahmed Ahmed. Density functional theory-based modelling on the physical properties of CsInAgAsX6 (X = Cl, Br) double perovskite for green energy applications. In Materials Today Communications, 2025, vol. 43, art. no. 111586. (2024: 4.5 - IF, Q2 - JCR, 0.788 - SJR, Q1 - SJR). ISSN 2352-4928. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2025.111586>
- ADCA60 MANZOOR, Mumtaz - SAXENA, Arti - SINGH, Pramod Kumar - AHMAD, Faizan - SHARMA, Ramesh - ULLAH, Hamid - FOUAD, Dalia - SRIVASTAVA, Vipul. Optoelectronic and Thermoelectric Properties of Zirconium Half-Heusler Alloys RhZrX (X= P, As, Sb, Bi): an ab-initio Investigation. In Journal of Inorganic and Organometallic Polymers and Materials, 2025, vol. 35, no. 3, p. 1845-1864. (2024: 4.9 - IF, Q1 - JCR, 0.697 - SJR, Q2 - SJR). ISSN 1574-1443. Dostupné na: <https://doi.org/10.1007/s10904-024-03405-9>
- ADCA61 MIKULA, Marian** - SROGOŇ, Jozef - ŠVEC, Peter Jr. - ŠROBA, Viktor - SATRAPINSKY, Leonid - ROCH, T. - TRUCHLÝ, Martin - VIDIŠ, M. - HÁJOVSKÁ, Zuzana - VISKUPOVÁ, Katarína - GRANČIČ, B. - KÚŠ, P. Yttrium-induced structural evolution and oxidation resistance in TiB2+Δ coatings deposited by conventional magnetron sputtering and HiPIMS. In Surface & Coatings Technology, 2025, vol. 515, art. no. 132674. (2024: 6.1 - IF, Q1 - JCR, 1.211 - SJR, Q1 - SJR). ISSN 0257-8972. Dostupné na: <https://doi.org/10.1016/j.surfcoat.2025.132674>
- ADCA62 MILIAIEVA, Daria - NÁDAŽDY, Vojtech - KOLTSOV, Mykhailo - LÓPEZ, Cibrán - SAEYEKTA, Hanieh - KULIČEK, Jaroslav - CAZORLA, Claudio - SAUCEDO, Edgardo - GRZIBOVSKIS, Raitis - VEMBRIS, Aivars - KRUNKS, Malle - REZEK, Bohuslav - SPALATU, Nicolae. Electronic structure and defect states in bismuth and antimony sulphides identified by energy-resolved electrochemical impedance spectroscopy. In Journal of Physics: Energy, 2025, vol. 7, no. 3, art. no. 035012. (2024: 6.3 - IF, Q2 - JCR, 1.733 - SJR, Q1 - SJR). ISSN 2515-7655. Dostupné na:

<https://doi.org/10.1088/2515-7655/add59f>

- ADCA63 MINAGAWA, Shintaro - MOHAMMADY, Mohammed Hamed - SAKAI, Kenta - KATO, Kohtaro - BUSCEMI, Francesco. Universal validity of the second law of information thermodynamics. In npj Quantum Information, 2025, vol. 11, no. 1, art. no. 18. (2024: 8.3 - IF, Q1 - JCR, 2.73 - SJR, Q1 - SJR). ISSN 2056-6387. Dostupné na: <https://doi.org/10.1038/s41534-024-00922-w>
- ADCA64 MOŠKO, Matej - POLACKOVA, Maria - KRČMÁR, Roman - GENDIAR, Andrej**. Vertex representation of hyperbolic tensor networks. In Physical Review E, 2025, vol. 111, no. 2, art. no. 024105. (2024: 2.4 - IF, Q1 - JCR, 0.705 - SJR, Q2 - SJR). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.111.024105>
- ADCA65 MRAVEC, B. - BUDZÁK, Šimon** - MEDVEĎ, Miroslav - PAŠTEKA, M. - LAZAR, P. - PROCHÁZKOVÁ, E. - RUŽIČKA, A. - KOŽÍŠEK, Jozef - VÉGSÖ, Karol - BODIK, Michal - ŠIFFALOVIČ, Peter - ŠVEC, Peter Jr. - FILO, J. - CIGÁŇ, Marek**. Solid-State Photoswitching of Hydrazones Based on Excited-State Intramolecular Proton Transfer. In Journal of the American Chemical Society, 2025, vol. 147, no. 3, p. 2421-2431. (2024: 15.6 - IF, Q1 - JCR, 5.554 - SJR, Q1 - SJR). ISSN 0002-7863. Dostupné na: <https://doi.org/10.1021/jacs.4c12510>
- ADCA66 NAUGHTON-DUSZOVÁ, Annamária** - ŠVEC, Peter Jr. - HRUBOVČÁKOVÁ, Monika - PETRUŠ, Ondrej - VOJTKO, Marek - HVIŽDOŠ, Pavol - DUSZA, Ján. Processing and microstructure development of reactive sintered (Ti-Zr-Nb-Hf-Ta)B₂ + (Ti-Zr-Nb-Hf-Ta)C high-entropy ceramics. In Journal of the European Ceramic Society, 2025, vol. 45, no. 2, art. no. 116872. (2024: 6.2 - IF, Q1 - JCR, 1.3 - SJR, Q1 - SJR). ISSN 0955-2219. Dostupné na: <https://doi.org/10.1016/j.jeurceramsoc.2024.116872>
- ADCA67 NAUGHTON-DUSZOVÁ, Annamária** - MEDVEĎ, Dávid - HRUBOVČÁKOVÁ, Monika - PETRUŠ, Ondrej - VOJTKO, Marek - ŠVEC, Peter Jr. - MEDVECKÝ, Ľubomír - HVIŽDOŠ, Pavol - DUSZA, Ján. Nanohardness of grains and grain boundaries in reactive sintered (Ti-Zr-Nb-Hf-Ta)B₂ + (Ti-Zr-Nb-Hf-Ta)C composite. In Journal of the European Ceramic Society, 2025, vol. 45, no. 7, art. no. 117261. (2024: 6.2 - IF, Q1 - JCR, 1.3 - SJR, Q1 - SJR). ISSN 0955-2219. Dostupné na: <https://doi.org/10.1016/j.jeurceramsoc.2025.117261>
- ADCA68 NAZIR, Abrar - KHERA, Ejaz Ahmad - MANZOOR, Mumtaz - SAHID, Sadaf - SHARMA, Ramesh - KHAN, Rajwali - KAMOLOVA, Nargiza - SAIDANI, Taoufik. Role of Anion Variation in Physical Properties of Novel Vacancy Ordered Ga₂PtX₆ (X = Br and I) for Solar Cell and Thermoelectric Applications. In Journal of Inorganic and Organometallic Polymers and Materials, 2025, vol. 35, no. 7, p. 5832-5848. (2024: 4.9 - IF, Q1 - JCR, 0.697 - SJR, Q2 - SJR). ISSN 1574-1443. Dostupné na: <https://doi.org/10.1007/s10904-025-03625-7>
- ADCA69 NAZIR, Abrar - SAXENA, Arti - KHERA, Ejaz Ahmad - MANZOOR, Mumtaz - SHARMA, Ramesh - IBRAHIM, Ahmed Ahmed - EL-MELIGY, Mohammed A. - ABDULLAEVA, Barno. Lead-Free Double Halide Perovskite Compounds: Unveiling the Structural, Optoelectronic, and Transport Properties of A₂TlRhF₆ (A = K, Rb) for Robust and Sustainable Green Energy Applications. In Journal of Inorganic and Organometallic Polymers and Materials, 2025, vol. 35, no. 8, p. 6422-6439. (2024: 4.9 - IF, Q1 - JCR, 0.697 - SJR, Q2 - SJR). ISSN 1574-1443. Dostupné na: <https://doi.org/10.1007/s10904-025-03666-y>
- ADCA70 NAZIR, Abrar - KHERA, Ejaz Ahmad - MANZOOR, Mumtaz - AL-ASBAHI, Bandar Ali - SHARMA, Ramesh. High spin polarization and half-metallic ferromagnetism in novel Half-Heusler FeCrX (X = S, Se and Te) alloys using first-principles calculations. In Solid State Communications, 2025, vol. 397, no. 11, art. no. 115803. (2024: 2.4 - IF, Q3 - JCR, 0.446 - SJR, Q2 - SJR). ISSN 0038-1098. Dostupné na: <https://doi.org/10.1016/j.ssc.2024.115803>

- ADCA71 NAZIR, Abrar - KHERA, Ejaz Ahmad** - ALTHUBEITI, Khaled - OTAIBI, Sattam Al - SOLIYEV, Mukhlisa - SHARMA, Ramesh** - MANZOOR, Mumtaz. Impact of halogens modifications on physical characteristics of lead-free hybrid double perovskites compounds Cs₂YCuX₆ (X=Cl, Br, and I) for energy storage applications: First principles investigations. In Chemical Physics, 2025, vol. 588, no. 11, art. no. 112449. (2024: 2.4 - IF, Q2 - JCR, 0.439 - SJR, Q2 - SJR). ISSN 0301-0104. Dostupné na: <https://doi.org/10.1016/j.chemphys.2024.112449>
- ADCA72 NAZIR, Abrar - KHERA, Ejaz Ahmad - MANZOOR, Mumtaz - SHARMA, Ramesh - BENABDALLAH, Faiza - GHODHBANI, Refka. A DFT Insight on the physical, optoelectronic and thermoelectric characteristics of half-Heusler NaZn(N/P) compounds for power generation applications. In Solid State Communications, 2025, vol. 400, no. 11, art. no. 589611. (2024: 2.4 - IF, Q3 - JCR, 0.446 - SJR, Q2 - SJR). ISSN 0038-1098. Dostupné na: <https://doi.org/10.1016/j.ssc.2025.115896>
- ADCA73 NESTERENKO, V. O. - MARDYBAN, M. A. - REPKO, Anton - JOLOS, R. V. - REINHARD, P.-G. - DZHIOEV, Alan A. Low-energy spectra of nobelium isotopes: Skyrme random-phase-approximation analysis. In Physical Review C, 2025, vol. 111, no. 6, art. no. 064322. (2024: 3.4 - IF, Q2 - JCR, 1.096 - SJR, Q1 - SJR). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/54k6-dvnr>
- ADCA74 PATHIWADA, Darshak - HVIZDOŠOVÁ, Adriana, Annušová - MACHATA, Peter - SHAALAN, Mohamed Ibrahim - HALAHOVETS, Yuriy - MOSNÁČEK, Jaroslav**. Fully open-air surface initiated photochemically induced atom transfer radical polymerization of renewable α -methylene- γ -butyrolactone with potential in biomedical applications via post-functionalization. In European Polymer Journal, 2025, vol. 234, art. no. 114023, [16] p. (2024: 6.3 - IF, Q1 - JCR, 1.076 - SJR, Q1 - SJR). ISSN 0014-3057. Dostupné na: <https://doi.org/10.1016/j.eurpolymj.2025.114023>
- ADCA75 PINČÁK, Richard** - PIGAZZINI, Alexander - PUDLÁK, Michal - BARTOŠ, Erik. Introduction of the G2-Ricci flow: Geometric implications for spontaneous symmetry breaking and gauge boson masses. In Nuclear Physics B, 2025, vol.1017, art.no.116959. (2024: 2.8 - IF, Q2 - JCR, 0.868 - SJR, Q1 - SJR). ISSN 0550-3213. Dostupné na: <https://doi.org/10.1016/j.nuclphysb.2025.116959>
- ADCA76 PLEVACHUK, Yuriy** - POVERZHUK, Viktor - ŠVEC, Peter - ŠVEC, Peter Jr. - OROVČÍK, Ľubomír - BAJANA, Otto. Effect of sub-zero temperature on the reliability of SAC305/Cu nanocomposite solder joints. In Journal of Materials Science. Materials in Electronics, 2025, vol. 36, no. 15, art. no. 898. (2024: 2.8 - IF, Q2 - JCR, 0.529 - SJR, Q2 - SJR). ISSN 0957-4522. Dostupné na: <https://doi.org/10.1007/s10854-025-14984-9>
- ADCA77 POSPÍŠILOVÁ, Eva**. Stable thin clathrate layers. In Physical Chemistry Chemical Physics, 2025, vol. 27, no. 23, p. 12313-12330. (2024: 2.9 - IF, Q2 - JCR, 0.698 - SJR, Q2 - SJR). ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/d4cp03967j>
- ADCA78 PUSSI, K. - GUPTA, P. - BARBIELLINI, B. - SRIHARI, V. - ŠVEC, Peter - BANSIL, A. - GUPTA, A. - KAMALI, S. Local atomic structure of amorphous Fe₈₁-xCoxNb₇B₁₂ alloys using synchrotron radiation x-ray diffraction and pair-distribution function analysis. In Applied Physics Letters, 2025, vol. 127, no. 1, art. no. 012401. (2024: 3.6 - IF, Q2 - JCR, 0.896 - SJR, Q1 - SJR). ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0264836>
- ADCA79 SAHOO, Prangya Parimita - GÜNEREN, Alper - HUDEC, Boris - MIČUŠÍK, Matej - ŠVEC, Peter Jr. - PRECNEROVÁ, Magdaléna - NADA, Ahmed A. - LENČEŠ, Zoltán - FRÖHLICH, Karol**. Silicon/Graphite Anode Performance Improvement: A Combination of Atomic Layer-Deposited ZnO Coatings with a Fluoroethylene Carbonate Additive. In ACS Applied Energy Materials, 2025, vol. 8, no. 11, p. 6925-6934. (2024: 5.5 - IF, Q2 - JCR, 1.378 - SJR, Q1 - SJR). ISSN 2574-0962. Dostupné

na: <https://doi.org/10.1021/acsaem.4c02912>

- ADCA80 SAHOO, Prangya Parimita** - HUDEC, Boris - MIČUŠÍK, Matej - MIKOLÁŠEK, M. - PRECNEROVÁ, Magdaléna - ŠVEC, Peter Jr. - NÁDAŽDY, Peter - MIČKY, Simon - ZUBAIR, Muhammad Saad - ŠIFFALOVICH, Peter - FRÖHLICH, Karol. Enhanced Performance of LiFePO₄ Cathodes with Alumina Nanocoating by Atomic Layer Deposition: Insights from Electrochemical, Operando X-ray Diffraction, and X-ray Photoelectron Spectroscopy Analyses. In ACS Applied Energy Materials, 2025, vol. 8, no. 14, p. 10594-10607. (2024: 5.5 - IF, Q2 - JCR, 1.378 - SJR, Q1 - SJR). ISSN 2574-0962. Dostupné na: <https://doi.org/10.1021/acsaem.5c01523>
- ADCA81 SALAZAR, Roberto - FERESHTE, Shahbeigi. Dephasing noise simulation for coherence-generating devices. In Physica Scripta, 2025, vol. 100, no. 8, art. no. 085110. (2024: 2.6 - IF, Q2 - JCR, 0.388 - SJR, Q2 - SJR). ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/adda94>
- ADCA82 SARKAR, Shuvam - KRAJČÍ, Marián - BARMAN, Sajal - BALAL, Mohammad - BHAKUNI, Pramod - CANFIELD, Paul C. - GLOSKOVSKII, Andrei - BARMAN, Sudipta Roy. Electronic structure of decagonal Al-Ni-Co quasicrystal studied by photoelectron spectroscopy and density functional theory. In Physical Review B, 2025, vol. 111, no. 16, art. no. 165126. (2024: 3.7 - IF, Q2 - JCR, 1.303 - SJR, Q1 - SJR). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.111.165126>
- ADCA83 SEDLÁK, Matúš** - GOTTARDO, A. - PENGGO, R. - GOASDUFF, A. - ZANON, I. - ZARZUELO, A. Cobo - BALOGH, M. - BRUGNARA, D. - ANDREETTA, G. - ANGELINI, F. - NICOLÁS DEL ÁLAMO, R. - GALTAROSSA, F. - GÓNGORA SERVÍN, B. - GREČNÁROVÁ, T. - LOMBARDO, I. - MENGONI, D. - PELLUMAJ, J. - PIGLIAPOCO, S. - PILOTTO, E. - RECCHIA, F. - VALIENTE-DOBÓN, J.J. - ZAGO, L. CTADIR: A 3,4He Cryogenic TArget for Direct Reactions at low energy. In Nuclear Instruments and Methods in Physics Research A. Accelerators, Spectrometers, Detectors and Associated Equipment, 2025, vol. 1080, art. no. 170626. (2024: 1.4 - IF, Q3 - JCR, 0.451 - SJR, Q2 - SJR). ISSN 0168-9002. Dostupné na: <https://doi.org/10.1016/j.nima.2025.170626>
- ADCA84 SHADROKH, Zohreh** - SOUSANI, Shima - DEHGHANI, Zahra - KABIR, Nasim - MOZAFFARBEIGI, Amir Mohammad - MRKÝVKOVÁ, Naďa, Tesařová - ABBASI, Alireza - ABDI, Yaser - ŠIFFALOVICH, Peter - MAJKOVÁ, Eva - JERGEL, Matej. Incorporation of UiO-66-NH₂ and carbon nanotubes into the perovskite thin films: Linear and nonlinear optical properties. In Optical Materials, 2025, vol. 161, art. no. 116771. (2024: 4.2 - IF, Q1 - JCR, 0.699 - SJR, Q1 - SJR). ISSN 0925-3467. Dostupné na: <https://doi.org/10.1016/j.optmat.2025.116771>
- ADCA85 SHLIAKHETKA, Khrystyna** - BALOG, Martin - KRÍŽIK, Peter - ŠIMON, Erik - ŠVEC, Peter Jr. - KITKY, Anna. Industrially fabricated in-situ Al-AlN metal matrix composites (part C): The corrosion characteristics. In Journal of Alloys and Compounds, 2025, vol. 1038, art. no. 182614. (2024: 6.3 - IF, Q1 - JCR, 1.192 - SJR, Q1 - SJR, karentované - CCC). (2025 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2025.182614>
- ADCA86 SINGH, Vipin Kumar - KRAJČÍ, Marián** - BHAKUNI, Pramod - CANFIELD, P C - BARMAN, Sudipta Roy. Quasiperiodic potassium adlayer on decagonal Al-Ni-Co quasicrystal. In Journal of Physics: Condensed Matter, 2025, vol. 37, no. 36, art. no. 365002 [10 pp]. (2024: 2.6 - IF, Q3 - JCR, 0.624 - SJR, Q2 - SJR). ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/1361-648X/adfe4b>
- ADCA87 SOLOMON, J.S. - MRKÝVKOVÁ, Naďa, Tesařová - KLINER, V. - SOTO-MONTERO, T. - FERNANDEZ-GUILLEN, I. - LEDINSKÝ, M. - BOIX, P.P. - ŠIFFALOVICH, Peter - MORALES-MASIS, M. Oriented 2D Ruddlesden-Popper metal halides by pulsed laser deposition. In NPJ 2D materials and applications, 2025, vol. 9, no. 1, art. no. 50. (2024: 8.8 - IF, Q1 - JCR, 2.565 - SJR, Q1 - SJR). ISSN

- 2397-7132. Dostupné na: <https://doi.org/10.1038/s41699-025-00571-3>
- ADCA88 SOUSANI, Shima - HOFBAUEROVÁ, Monika, Benkovičová - KOLLÁR, Jozef - NADAFAN, Marzieh - DEHGHANI, Zahra - ŠČEPKA, Tomáš - MRKÝVKOVÁ, Nad'a, Tesařová - ŠIFFALOVIČ, Peter - SHADROKH, Zohreh** - MAJKOVÁ, Eva** - JERGEL, Matej. Effect of CsPbBr₃ quantum dots with different X-type ligands as additives on third-order nonlinear optical response in perovskite thin film. In Optics and Laser Technology, 2025, vol. 188, art. no. 113009, [13] p. (2024: 5 - IF, Q1 - JCR, 1 - SJR, Q1 - SJR). ISSN 0030-3992. Dostupné na: <https://doi.org/10.1016/j.optlastec.2025.113009>
- ADCA89 STAŇO, Peter - LOSS, Daniel. Quantification of the heavy-hole–light-hole mixing in two-dimensional hole gases. In Physical Review B, 2025, vol. 111, no. 11, art. no. 115301. (2024: 3.7 - IF, Q2 - JCR, 1.303 - SJR, Q1 - SJR). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.111.115301>
- ADCA90 ŠAMAJ, Ladislav. Contact value theorem for electric double layers with modulated surface charge density. In Journal of Physics A: Mathematical and Theoretical, 2025, vol. 58, no. 6, art. no. 065001 [22 pp]. (2024: 2.1 - IF, Q2 - JCR, 0.659 - SJR, Q2 - SJR). ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/adaba1>
- ADCA91 ŠINDLER, Martin - BUŘIČ, Miloš - PLESCH, Martin - FRANTA, Pavel - DROZD, Bořek. Effectiveness of mass marking of juvenile sterlet (*Acipenser ruthenus*) with alizarin red S stain on field detection. In Fisheries Management and Ecology, 2025, vol. 32, no. 1, art. no. e12737. (2024: 2 - IF, Q2 - JCR, 0.643 - SJR, Q2 - SJR). ISSN 0969-997X. Dostupné na: <https://doi.org/10.1111/fme.12737>
- ADCA92 ŠPAČEK, Andrej - HERZÁŇ, Andrej** - SEDLÁK, Matúš - VENHART, Martin - ALI, F. A. - ANDREYEV, A. N. - AURANEN, K. - BÁNOVSKÁ, S. - BALOGH, Matúš - CARROLL, R. J. - COX, D. M. - CUBISS, J. G. - DAVIS, T. - DRUMMOND, M. C. - EASTON, J. L. - GRAHN, T. - GREDDLEY, A. - GREENLEES, P. T. - HENDERSON, J. - JAKOBSSON, U. - JOSS, D. T. - JULIN, R. - JUUTINEN, S. - KANTAY, Gulnur - KLIMAN, Ján - KONKI, J. - LAWRIE, E. A. - LEINO, M. - MATOUŠEK, Vladislav - MISTRY, A. K. - MCPEAKE, C. G. - O'DONNELL, D. - PAGE, R. D. - PAKARINEN, J. - PAPADAKIS, P. - PARTANEN, J. - PEURA, P. - RAHKILA, P. - REPKO, Anton - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - SAYGI, B. - SEWERYNIAK, D. - SCHOLEY, C. - SORRI, J. - STOLZE, S. - THORNTHWAITE, A. - TIMCHENKO PRIHODKO, Iryna - UUSITALO, J. - VESELSKÝ, M. - VIELHAUER, Sebastian - WEARING, F. P. Fine structure in the α decay of ¹⁷⁹Hg and ¹⁷⁷Au. In European Physical Journal A, 2025, vol. 61, no. 3, art. no. 43. (2024: 2.8 - IF, Q2 - JCR, 0.757 - SJR, Q2 - SJR). ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-025-01513-9>
- ADCA93 ŠROBA, Viktor - ROCH, Tomáš - TRUCHLÝ, Martin - SATRAPINSKY, Leonid - GRANČIČ, Branislav - VISKUPOVÁ, Katarína - ŠVEC, Peter Jr. - KÚŠ, Peter - GRECZYNSKI, Grzegorz - MIKULA, Marian**. Nanostructure, mechanical properties and oxidation resistance of understoichiometric ZrB_{2-x} films deposited by high power impulse magnetron sputtering. In Surface & Coatings Technology, 2025, vol. 498, art. no. 131860. (2024: 6.1 - IF, Q1 - JCR, 1.211 - SJR, Q1 - SJR). ISSN 0257-8972. Dostupné na: <https://doi.org/10.1016/j.surfcoat.2025.131860>
- ADCA94 TIGHEZZA, Ammar M. - NAZIR, Abrar - KHERA, Ejaz Ahmad - MANZOOR, Mumtaz - ISHFAQ, Mudassir - SHARMA, Ramesh. A DFT approach to study the vacancy ordered lead free double inorganic perovskites Na₂PtX₆ (X= Cl, Br) for sustainable technologies. In Journal of Inorganic and Organometallic Polymers and Materials, 2025, vol. 35, no. 2, p. 1201-1218. (2024: 4.9 - IF, Q1 - JCR, 0.697 - SJR, Q2 - SJR). ISSN 1574-1443. Dostupné na: <https://doi.org/10.1007/s10904-024-03346-3>

- ADCA95 TIMCHENKO PRIHODKO, Iryna** - DEIEV, O. S. - OLEJNIK, S. M. - POTIN, S. M. - KUSHNIR, V. A. - MYTROCHENKO, V. V. - PEREZHOGIN, S. A. Cross-section of the ^{95}Nb production on natural molybdenum at the bremsstrahlung end-point energy up to 95 MeV. In European Physical Journal A, 2024, vol. 60, no. 3, art. no. 60. (2023: 2.6 - IF, Q2 - JCR, 0.931 - SJR, Q1 - SJR). ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01275-w>
- ADCA96 TIMCHENKO PRIHODKO, Iryna** - DEIEV, O.S. - OLEJNIK, S.M. - POTIN, S.M. - KUSHNIR, V.A. - MYTROCHENKO, V.V. - PEREZHOGIN, S.A. - HERZÁŇ, Andrej. Cross-section of the $\text{natNi}(\gamma, \text{pxn})^{58}\text{Co}$ reaction at the bremsstrahlung end-point energy of 35–94 MeV. In European Physical Journal A, 2025, vol. 61, no. 9, art. no. 199. (2024: 2.8 - IF, Q2 - JCR, 0.757 - SJR, Q2 - SJR). ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-025-01666-7>
- ADCA97 TOKÁROVÁ, Zita - KABAŇOVÁ, Natália - KORCOVÁ, Júlia - GALLOVÁ, Lenka - TOKÁR, Kamil - VÉGH, Daniel. Diverse synthetic approaches to 3-arylmethylidene- and bis-3,5-arylmethylidene-N-benzylpiperidin-4-ones with thiophene scaffolds: The comparative experimental study. In Journal of Molecular Structure, 2025, vol. 1336, no. 14, art. no. 142133. (2024: 4.7 - IF, Q2 - JCR, 0.628 - SJR, Q2 - SJR). ISSN 0022-2860. Dostupné na: <https://doi.org/10.1016/j.molstruc.2025.142133>
- ADCA98 TORKAMANI, Reza - ASLIBEIKI, Bagher - SALARI, Saeid - AZIZI, Hamid - PEDDIS, Davide - SARKAR, Tapati. High-performance hydrogen gas sensor based on Ag-incorporated ZnO nanoparticles. In Scientific Reports, 2025, vol. 15, no. 1, art. no. 38390. (2024: 3.9 - IF, Q1 - JCR, 0.874 - SJR, Q1 - SJR). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-025-22222-9>
- ADCA99 TRAVĚNEC, Igor - ŠAMAJ, Ladislav**. 1D fluids with repulsive nearest-neighbour interactions: low-temperature anomalies. In Journal of Physics A: Mathematical and Theoretical, 2025, vol. 58, no. 19, art. no. 195005 [30 pp]. (2024: 2.1 - IF, Q2 - JCR, 0.659 - SJR, Q2 - SJR). ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/add22c>
- ADCA100 TRUCHAN, Daniel - HVIZDOŠOVÁ, Adriana, Annušová** - GUILHEM, Curé - MIČUŠÍK, Matej - NÁDAŽDY, Vojtech - KOTLÁR, Mário - GIULIA C., Fadda - NÁDAŽDY, Peter - JERGEL, Matej - WILHELM, Claire - VAN DE WALLE, Aurore - ŠIFFALOVIC, Peter - LALATONNE, Yoann**. Tailoring the optoelectronic properties of MoOx nanoparticles: a novel microwave-assisted synthesis for near-infrared absorbing polyoxometallic clusters. In Discover Nano, 2025, vol. 20, no. 1, art. no. 197, [23] p. (2024: 4.5 - IF, Q2 - JCR, 0.703 - SJR, Q2 - SJR). ISSN 2731-9229. Dostupné na: <https://doi.org/10.1186/s11671-025-04378-5>
- ADCA101 VIDIŠ, M.** - FIANTOK, Tomas - TRUCHLÝ, Martin - IZAI, Vitalii - ROCH, T. - SATRAPINSKY, Leonid - HAHN, Rainer - RIEDL, Helmut - ŠVEC, Peter Jr. - ŠROBA, Viktor - MIKULA, Marian. Enhanced hardness and fracture toughness in diboride superlattice films: Ab initio and experimental study. In Surface & Coatings Technology, 2025, vol. 515, art. no. 132607. (2024: 6.1 - IF, Q1 - JCR, 1.211 - SJR, Q1 - SJR). ISSN 0257-8972. Dostupné na: <https://doi.org/10.1016/j.surfcoat.2025.132607>
- ADCA102 VORONTSOV, D.** - LEDINSKÝ, M. - VLK, A. - HLAVÁČ, R. - LANDOVÁ, L. - KOŠUTOVÁ, T. - KNÍŽEK, M. - FUČÍKOVÁ, Alena - MRKÝVKOVÁ, Naďa, Tesařová - ŠIFFALOVIC, Peter - VALENTA, J. Photoluminescence Quantum Yield Enhancement of FAPbBr₃ Thin Films via Ce Doping. In Journal of Physical Chemistry C, 2025, vol. 129, no. 31, p. 14190-14195. (2024: 3.2 - IF, Q3 - JCR, 0.914 - SJR, Q1 - SJR). ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.5c03090>
- ADCA103 XIAO, Qiguo - NAZIR, Abrar - KHERA, Ejaz Ahmad - MANZOOR, Mumtaz -

SHARMA, Ramesh - RAHMAN, Javed - ANSAR, Sabah - ALI, Farooq. Probing the opto-electronic, thermoelectric, thermodynamic and elastic responses of lead-free double perovskite $\text{Li}_2\text{ATlCl}_6$ ($A = \text{Na}$ and K) for potential photovoltaic and high-energy applications: A DFT study. In Materials Science and Engineering B - Solid-State Materials for Advanced Technology, 2025, vol. 312, no. 11, art. no. 117860. (2024: 4.6 - IF, Q2 - JCR, 0.778 - SJR, Q1 - SJR). ISSN 0921-5107. Dostupné na: <https://doi.org/10.1016/j.mseb.2024.117860>

- ADCA104 ZABELIN, Denis - TULUPOVA, Anastasiia - ŠVEC, Peter Jr. - MICHALCOVA, Alena - BURTSEV, Vasilii - URBANOVA, Marie - HONICKE, Philipp - BURAVETS, Vladislav - HRBEK, Tomas - SKVORTSOVA, Anastasiia - ZABELINA, Anna - SVORCIK, Vaclav - MICHNA, Stefan - VEJPRAVOVA, Jana - LYUTAKOV, Oleksiy. Chiral 2D flakes with single atoms inclusion for spin-controlled oxygen evolution. In Journal of Power Sources, 2025, vol. 641, art. no. 236839. (2024: 7.9 - IF, Q1 - JCR, 1.784 - SJR, Q1 - SJR). ISSN 0378-7753. Dostupné na: <https://doi.org/10.1016/j.jpowsour.2025.236839>
- ADCA105 ZHU, T. - LIU, M. - CRESP, M. - ZHENG, D.N. - VÉGSÖ, Karol - ŠIFFALOVIČ, Peter - PAUPORTÉ, T.**. Spacer loss upon 2D Ruddlesden–Popper halide Perovskite annealing raises film properties and solar cell performances. In Nanomaterials-Basel, 2025, vol. 15, no. 10, art. no. 750. (2024: 4.3 - IF, Q2 - JCR, 0.811 - SJR, Q1 - SJR). ISSN 2079-4991. Dostupné na: <https://doi.org/10.3390/nano15100750>

ADEA Vedecké práce v ostatných zahraničných časopisoch – impaktovaných

- ADEA01 KLBIK, Ivan**. Workman-reynolds freezing potential in cell cryoinjury: Molecular dynamics insights. In Cryobiology, 2025, vol. 121, no. 10, art. no. 105343. (2024: 2.1 - IF, Q2 - JCR, 0.519 - SJR, Q2 - SJR). ISSN 0011-2240. Dostupné na: <https://doi.org/10.1016/j.cryobiol.2025.105416>
- ADEA02 PLEVACHUK, Yuriy - ŠVEC, Peter - MAŤKO, Igor - JANIČKOVIČ, Dušan - YAKYMOVYCH, A. - GEJDOŠ JANOTOVÁ, Irena - POVERZHUK, V. Electrical resistivity of multicomponent Sn–Bi–In–Zn–Cu–Ag alloys as materials for low-temperature lead-free solders. In Journal of Physical Studies : Zhurnal fizychnykh doslidzhen, 2025, vol. 29, no. 4, art. no. 4601 [7p.]. (2024: 0.2 - IF, Q4 - JCR, 0.193 - SJR, Q4 - SJR). ISSN 2310-0052. Dostupné na: <https://doi.org/10.30970/jps.29.4601>
- ADEA03 ROIK, Oleksandr - YAKOVENKO, Olexiy - ŠVEC, Peter Jr. - JANIČKOVIČ, Dušan - GEJDOŠ JANOTOVÁ, Irena - ŠVEC, Peter - KULIK, Tadeusz - CIESLAK, Grzegorz - AKULCHEVA, Maryana - KURYS, Yaroslav - OROVČÍK, Ľubomír. Fabrication of multicomponent nanoporous metallic materials by vapor phase dealloying. In Journal of Physical Studies : Zhurnal fizychnykh doslidzhen, 2025, vol. 29, no. 4, art. no. 4063 [6 pp.]. (2024: 0.2 - IF, Q4 - JCR, 0.193 - SJR, Q4 - SJR). ISSN 2310-0052. Dostupné na: <https://doi.org/10.30970/jps.29.4603>

ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

- ADEB01 BRINDZJA, Irina Volodimirovna - GOJVANOVICH, Namalija Kosmjanminivna - KAVETSKYY, Taras. Biologična ocinka jakosti kriničnych vod drogobickoj teritorial'noj gromadi. In Acta Carpathica, 2025, vol. 1, no. 43, p. 32-43. ISSN 3041-2250.
- ADEB02 FINK, Dietmar - VINKOVSKAYA, Alina - KAVETSKYY, Taras - HOIVANOVYCH, Nataliia - KUKHAZH, Yuliia - KRAVTSIV, Mariana - MATSKIV, Oles - ŠAUŠA, Ondrej - KIV, Arnold. Mechanism of oscillations of ion

currents in the nanotracks = Mechanizmy kolivani ionnich strumiv u nanotrekach. In Acta Carpathica, 2025, vol. 1, no. 43, p. 81-88. ISSN 3041-2250. Dostupné na: <https://doi.org/10.32782/2450-8640.2025.1.9>

- ADEB03 KAVETSKYY, Taras** - TUZHYKOV, Andrii - FINK, Dietmar - KUKHAZH, Yuliia - HOIVANOVYCH, Nataliia - ŠAUŠA, Ondrej - ZGARDZIŃSKA, Bożena - ŠVAJDLENKOVÁ, Helena - WAROWNA, Julia - SOLOVIEV, Volodymyr - KIV, Arnold. Positron annihilation and AI-technology for creation of novel biosensors. In Journal of Physics: Conference Series, 2025, vol. 3149, art.no. 012028, [5]p. (2024: 0.187 - SJR). ISSN 1742-6588. Dostupné na: <https://doi.org/10.1088/1742-6596/3149/1/012028>
- ADEB04 LIPTAJ, Andrej - DUBNIČKA, Stanislav - DUBNIČKOVÁ, Anna Z. - IVANOV, Mikhail A. Hadrons in Covariant Confined Quark Model. In Acta Physica Polonica B- Proceedings Supplement, 2025, vol. 18, art. no. 6-A22. (2024: 0.173 - SJR, Q4 - SJR). ISSN 1899-2358. Dostupné na: <https://doi.org/10.5506/APhysPolBSupp.18.6-A22>
- ADEB05 SPODNIÁKOVÁ PFEFFEROVÁ, M. - PLESCH, Martin. Optics experiments as a tool for developing critical thinking in physics education. In Journal of Physics: Conference Series, 2025, vol. 3155, no. 1, art. no. 012017. (2024: 0.187 - SJR). ISSN 1742-6588. Dostupné na: <https://doi.org/10.1088/1742-6596/3155/1/012017>
- ADEB06 ŠAUŠA, Ondrej** - ŠVAJDLENKOVÁ, Helena. Photopolymerization of dimethacrylates in confinement. In Journal of Physics: Conference Series, 2025, vol. 3149, art.no. 012024, [5] p. (2024: 0.187 - SJR). ISSN 1742-6588. Dostupné na: <https://doi.org/10.1088/1742-6596/3149/1/012024>

ADMA Vedecké práce v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADMA01 AYYANUSAMY, Poongodi - VÉGSÖ, Karol - ŠIMON, Erik - HALAHOVETS, Yuriy - DEVAUX, Didier - AGUADERO, Ainara - VILLALUENGA, Irune - ARTAL, Raul - CORRAL, Oier Pajuelo - NÁDAŽDY, Peter - RAZA, Muhammad Arslan - HILHORST, Jan - DE HEER, Ton - JERGEL, Matej - ŠIFFALOVÍČ, Peter**. Real-time Phase Monitoring of Solid-State Electrolytes: A Glovebox-Integrated In-situ Wide-Angle X-ray Scattering. In Energy Technology, 2025, vol. 13, no. 12, art. no. 2500591. (2024: 3.6 - IF, Q3 - JCR, 0.84 - SJR, Q2 - SJR). ISSN 2194-4288. Dostupné na: <https://doi.org/10.1002/ente.202500591>
- ADMA02 DUBNIČKA, Stanislav** - DUBNIČKOVÁ, Anna-Zuzana - HOLKA, Lukáš - LIPTAJ, Andrej. New Insight on Damped Oscillating Regular Structures from "Effective" Proton Electromagnetic Form Factor Data. In AppliedMath, 2025, vol. 5, no. 3, art. no. 126. (2024: 0.7 - IF, Q3 - JCR, 0.218 - SJR, Q4 - SJR). ISSN 2673-9909. Dostupné na: <https://doi.org/10.3390/appliedmath5030126>
- ADMA03 CHERNYAK, Yuri* - MOHAMMAD, Ijaz Ahamed** - MASNIČÁK, Nikolas - PIVOLUSKA, Matej - PLESCH, Martin*. Harmonic oscillator based particle swarm optimization. In PLoS ONE, 2025, vol. 20, no. 6, art. no. e0326173. (2024: 2.6 - IF, Q2 - JCR, 0.803 - SJR, Q1 - SJR). ISSN 1932-6203. Dostupné na: <https://doi.org/10.1371/journal.pone.0326173>
- ADMA04 KAVETSKYY, Taras - ZUBRYTSKA, O.V. - MATSKIV, O.I. - STIEVENARD, M. - ŠAUŠA, Ondrej - ŠVAJDLENKOVÁ, Helena - SOLOVIEV, V.M. - BIELINSKYI, A.O. - OSTRAUSKAITE, J. - KIV, A.E. Photopolymerization and photodegradation of polymers after long-term UV light exposure = Fotopoljmerizacija ta fotodegradacija poljmerjv pjclja trivalogo vplivu ul'trafioletovogo svj'tla. In Physics and Chemistry of Solid State, 2025, vol. 26, no. 4, p. 718-732. (2024: 0.9 - IF, Q4 - JCR, 0.255 - SJR, Q3 - SJR). ISSN 1729-4428. Dostupné na:

<https://doi.org/10.15330/pcss.26.4>.

- ADMA05 KUMAR, Kamal - MISHRA, Abhishek Kumar - SHARMA, Ramesh - MANZOOR, Mumtaz - ABDELMOHSEN, Shaimaa A.M. An investigation of the biaxial strain on structural, opto-electronic and mechanical properties of 2D GaGeTe monolayer from a theoretical perspective using DFT. In Journal of Physics and Chemistry of Solids, 2025, vol. 202, no. 11, art. no. 112683. (2024: 4.9 - IF, Q2 - JCR, 0.816 - SJR, Q1 - SJR). ISSN 0022-3697. Dostupné na: <https://doi.org/10.1016/j.jpcs.2025.112683>
- ADMA06 RIERA, Miguel Jorquera - LOVERIDGE, Leon. Uncertainty relations relative to phase-space quantum reference frames. In ???, 2025, vol. 111, no. 6, art. no. L060201. (2024: 2.9 - IF, Q2 - JCR, 1.033 - SJR, Q1 - SJR). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.111.L060201>
- ADMA07 VISKUPOVÁ, Katarína** - FIANTOK, Tomáš - GRANČIČ, Branislav - ŠVEC, Peter Jr. - ROCH, Tomáš - TRUCHLÝ, Martin - ŠROBA, Viktor - SATRAPINSKY, Leonid - KÚŠ, Peter - MIKULA, Marian. Heterostructural decomposition in V_{1-x}W_xB₂-Δ films induced by B deficiency. In Materialia, 2025, vol. 39, art. no. 102351. (2024: 2.9 - IF, Q3 - JCR, 0.789 - SJR, Q2 - SJR). ISSN 2589-1529. Dostupné na: <https://doi.org/10.1016/j.mtla.2025.102351>

ADMB Vedecké práce v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADMB01 DAI, Yangkun - LIU, Yibo - MIHALKOVIČ, Marek - WEN, Bin - ZHANG, Lifeng - FAN, Changzeng. CaCu_{1.424}Fe_{0.576}Si₂. In IUCrData, 2025, vol. 10, art. no. x250325. (2024: 0.160 - SJR, Q4 - SJR). ISSN 2414-3146. Dostupné na: <https://doi.org/10.1107/S2414314625003256>
- ADMB02 GALTAROSSA, Franco - GOTTARDO, Andrea - ZAGO, Luca - BALOGH, Matúš - PILOTTO, Elia - PASQUALATO, Giorgia - MENGONI, Daniele - JORQUERA, Pablo Aguilera - ANDREETTA, Giuseppe - ANGELINI, Filippo - BALDESI, Lucia - BENITO, Jaime - BENZONI, Giovanna - BOTTONI, Simone - BRUGNARA, Daniele - CAMAIANI, Alberto - CAROLLO, Sara - COLLADO, Javier - CORBARI, Giacomo - D'ANDREA, Maurizio - DEANGELIS, Giacomo - DEL FABBRO, Mirco - DELL' AQUILA, Daniele - DIKLIČ, Josipa - DUNKEL, Felix - ERCOLANO, Federica - ERTOPRAK, Aysegul - GADEA, Andres - GIAZ, Agnese - GOASDUFF, Alain - GÓNGORA-SERVÍN, Benito - GOZZELINO, Andrea - HADYŇSKA-KLEK, Kasia - HIVER, Corentin - HUANG, Zhen - KACI, Massyl - KLEIS, Hannah - LENZI, Silvia Monica - LOMBARDO, Ivano - MARCHINI, Naomi - MAYR, Hannes - MENEGAZZO, Roberto - MIANI, Nicolas - NANNINI, Adriana - NAPOLI, Daniel Ricardo - ÁLAMO, Raquel Nicolásdel - PELLUMAJ, Julgen - PÉREZ-VIDAL, Rosa Maria - PIGLIAPOCO, Sara - POLETTINI, Marta - RECCHIA, Francesco - REDIGOLO, Luigi - REZYNKINA, Kseniia - ROCCHINI, Marco - SEDLÁK, Matúš - SPACEK, Andrej - SPEE, Franziskus - SPINA, Giulia - STRAMACCIONI, Damiano - VALIENTE-DOBÓN, JoséJavier - ZANON, Irene - ZHANG, Guangxin. Lifetime measurement after direct transfer reactions with AGATA at LNL. In EPJ Web of Conferences, 2025, vol. 324, art. no. 00029. ISSN 2100-014X. Dostupné na: <https://doi.org/10.1051/epjconf/202532400029>
- ADMB03 CHOUHAN, Hemendra** - DOBROČKA, Edmund - NÁDAŽDY, Peter - ŤAPAJNA, Milan - HUŠEKOVÁ, Kristína - MIKOLÁŠEK, M. - EGYENES, Fridrich - KESHTKAR, Javad - HRUBIŠÁK, Fedor - SOBOTA, Michal - ŠIFFALOVÍČ, Peter - GREGUŠOVÁ, Dagmar - GUCMANN, Filip. The origin of enhanced crystal quality of heteroepitaxially grown (-201) β-Ga₂O₃ on offcut sapphire substrate by LI-MOCVD. In Proceedings of the 2025 IEEE 15th International Conference "Nanomaterials: Applications & Properties" (IEEE

NAP-2025) : Bratislava, Slovakia, September 7–12, 2025. - IEEE, 2025, p. UBMP03. ISBN 979-8-3315-8799-4. Dostupné na:
<https://doi.org/10.1109/NAP68437.2025.11216261>

- ADMB04 KAVETSKYY, Taras** - HARIZANOVA, Ruzha - PETKOV, Plamen - ČÍŽEK, Jakub - KRAUSE-REHBERG, Reinhard - ŠAUŠA, Ondrej - ZGARDZIŃSKA, Bozena - GUGOV, Ivailo - KIV, Arnold - RÜSSEL, Christian. Phase Transition and Structural Defects in Complex Iron-Containing Oxide Glasses Probed By Positron Annihilation Transition and Structural Defects in Complex Iron-Containing Oxide Glasses Probed By Positron Annihilation. In Solid State Phenomena, 2025, vol. 374, p. 119-124. (2024: 0.168 - SJR, Q4 - SJR). ISSN 1012-0394. Dostupné na:
<https://doi.org/10.4028/p-ofOO4M>
- ADMB05 KAVETSKYY, Taras - KUKHAZH, Yuliia - DEMKIV, Olha - PANKIV, Liudmyla - ŠAUŠA, Ondrej - WAROWNA, Julia - ZGARDZIŃSKA, Bozena - GORGOL, Marek - PETKOV, Plamen - KOLEV, Kolyo - BOEV, Victor - ILCHEVA, Vania - PETKOVA, Tamara - KIV, Arnold. Organic-Inorganic Ureasil-Based Composites with Sulfur for Biosensors. In NATO Science for Peace and Security Series B: Physics and Biophysics, 2025, p. 513-519. ISSN 1874-6500. Dostupné na:
https://doi.org/10.1007/978-94-024-2316-7_39
- ADMB06 KAVETSKYY, Taras - ZUBRYTSKA, Oksana - STIEVENARD, Martin - ŠAUŠA, Ondrej - ŠVAJDLENKOVÁ, Helena - SOLOVIEV, Volodymyr - BIELINSKYI, Andrii - OSTRUSKAITE, Jolita - KIV, Arnold. Complex Network Methods, PALS, ATR-FTIR and EPR Study of Photopolymerization. In NATO Science for Peace and Security Series B: Physics and Biophysics, 2025, p. 265-284. ISSN 1874-6500. Dostupné na: https://doi.org/10.1007/978-94-024-2316-7_19
- ADMB07 KIV, Arnold - SOLOVIEV, Volodymyr - TUZHYKOV, Andrii - KAVETSKYY, Taras - HOIVANOVYCH, Nataliia - ŠAUŠA, Ondrej - RUSNÁK, Jaroslav - ŠVAJDLENKOVÁ, Helena - OSTRUSKAITE, Jolita - BIELINSKYI, Andrii - SLUSARENKO, Mykola. Machine Learning Interatomic Potentials and Orientational Defects in Polymers. In NATO Science for Peace and Security Series B: Physics and Biophysics, 2025, p. 91-104. ISSN 1874-6500. Dostupné na:
https://doi.org/10.1007/978-94-024-2316-7_6
- ADMB08 KIV, Arnold - FINK, Dietmar - KAVETSKYY, Taras - DYACHOK, Dmytro - VINKOVSKAYA, Alina - HOIVANOVYCH, Nataliia - NYKOLAISHYN, Oksana - MUSHYNSKA, Oksana - ŠAUŠA, Ondrej. Track Structures and Biosensors. In NATO Science for Peace and Security Series B: Physics and Biophysics, 2025, p.85-89. ISSN 1874-6500. Dostupné na: https://doi.org/10.1007/978-94-024-2316-7_5
- ADMB09 PELLUMAJ, J. - BRUGNARA, D. - SEDLÁK, Matúš - VALIENTEDOBÓN, J.J. - GOASDUF, A. - AGUILERA, P. - ANGELINI, F. - BALOGH, M. - BENITO, J. - BENZONI, G. - BOTTONI, S. - CORRADI, L. - CAROLLO, S. - DONCEL, M. - DIKLIČ, J. - ERTOPRAK, A. - ESCUDEIRO, R. - DEL FABBRO, M. - FIORETTO, E. - GALTAROSSA, F. - SERVIN, B. Gongora - GOTTARDO, A. - MARCHI, T. - MENGONI, D. - MIJATOVIČ, T. - MONTAGNOLI, G. - NAPOLI, D. - PÉREZVIDAL, R.M. - PIGLIAPOCO, S. - PILOTTO, E. - REZYNKINA, K. - STEFANINI, A. - SZILNER, S. - ZAGO, L. - ZANON, I. - ZHANG, G. A novel technique for lifetime measurements in heavy neutron-rich nuclei: The reversed plunger. In EPJ Web of Conferences, 2025, vol. 324, art. no. 00031. ISSN 2100-014X. Dostupné na: <https://doi.org/10.1051/epjconf/202532400031>
- ADMB10 PIĘTKA, I.Z. - WRZOSEK-LIPSKA, K. - GARRETT, P.E. - ZIELIŃSKA, M. - PRÓCHNIAK, L. - NANNINI, A. - ROCCHINI, M. - ABRAHAM, T. - AGUILERA, P. - AHMED, Z.T. - ALLMOND, J.M. - ANGELINI, F. - BALOGH, M. - BELLO GARROTE, F.L. - BENITO, J. - BIDAMAN, H. - BILDSTEIN, V. - BRUGNARA, D. - BUCK, S. - BURBADGE, C. - CAROLLO, S. - CEDERKÄLL,

J. - CHIARI, M. - COLEMAN, R. - COLOMBI, G. - COLUCCIA, G. - DIAZ VARELA, A. - DOHERTY, D.T. - DUTT, S. - ERCOLANO, F. - ERTOPRAK, A. - ESCUDEIRO, R. - GALTAROSSA, F. - GOASDUFF, A. - GÓNGORA-SERVÍN, B. - GOTTARDO, A. - GOZZELINO, A. - GREAVES, B. - HADYŃSKA-KŁĘK, K. - HEERY, J. - HICKS, S.F. - HUANG, Z. - HYMERS, D. - ILLANA, A. - IWANICKI, J. - JAWORSKI, G. - JIGMEDDORJ, B. - KALAYDJIEVA, D. - KISIELIŃSKI, M. - KJUS, R. - KOMOROWSKA, M. - KOPEĆ, N. - KOWALCZYK, M. - KOWALSKA, J. - KRUTUL-BITOWSKA, K.Z. - KUMAR, R. - MAI QUYNH, A. - MARCHINI, N. - MARCHLEWSKI, T. - MASHTAKOV, K.R. - MATEJSKA-MINDA, M. - MENGONI, D. - MICHELAGNOLI, C. - NAPIORKOWSKI, P.J. - NAPOLI, D.R. - OLAIZOLA, B. - PALACZA, M. - PANNU, S. - PASQUALI, E. - PELLUMAJ, J. - PETERS, E.E. - PÉREZ-VIDAL, R.M. - PIGLIAPOCO, S. - PILOTTO, E. - RECCHIA, F. - REZYNKINA, K. - SAHIN, E. - SAMORAJCZYK-PYŚK, J. - SAXENA, M. - SEDLÁK, Matúš - SREBRNY, J. - STOLARZ, A. - STOYCHEV, K. - SVENSSON, C.E. - TUCHOLSKI, A. - TRZCIŃSKA, A. - VALBUENA, S. - VALIENTE-DOBÓN, J.J. - WOOD, J.L. - YATES, S.W. - ZAGO, L. - ZANON, I. - ZHANG, G. - ZIDAR, T. Probing Low-energy States in ¹¹⁰Cd Using Coulomb Excitation. In Acta Physica Polonica B- Proceedings Supplement, 2025, vol. 18, art. no. 2-A26. (2024: 0.173 - SJR, Q4 - SJR). ISSN 1899-2358. Dostupné na:

<https://doi.org/10.5506/APhysPolBSupp.18.2-A26>

- ADMB11 RIVERA CARDOSO, Ricardo - MEIBURG, Alex - NAGAJ, Daniel. Quantum SAT Problems with Finite Sets of Projectors Are Complete for a Plethora of Classes. In Leibniz International Proceedings in Informatics, LIPIcs.20th Conference on the Theory of Quantum Computation, Communication and Cryptography (TQC 2025), 2025, vol. 350, art. no. 6 [24] p. (2024: 0.616 - SJR). ISSN 1868-8969. Dostupné na: <https://doi.org/10.4230/LIPIcs.TQC.2025.6>
- ADMB12 RUDOLPH, Dorian - GHARIBIAN, Sevag - NAGAJ, Daniel. Quantum 2-SAT on Low Dimensional Systems Is QMA1-Complete: Direct Embeddings and Black-Box Simulation. In Leibniz International Proceedings in Informatics, LIPIcs.16th Innovations in Theoretical Computer Science Conference (ITCS 2025), 2025, vol. 325, art. no. 85 [15] p. (2024: 0.616 - SJR). ISSN 1868-8969. Dostupné na: <https://doi.org/10.4230/LIPIcs.ITCS.2025.85>
- ADMB13 ŠAUŠA, Ondrej** - CIFRANIČOVÁ, Katarína - ŠVAJDLENKOVÁ, Helena. Free-volume changes in the photopolymerization of dimethacrylates. In Journal of Physics: Conference Series, 2025, vol. 3029, art.no. 012010, [6]p. (2024: 0.187 - SJR). ISSN 1742-6588. Dostupné na: <https://doi.org/10.1088/1742-6596/3029/1/012010>
- ADMB14 ŠVAJDLENKOVÁ, Helena - KRÁLOVIČ, David Pavel - ŠAUŠA, Ondrej. Microstructural study of epoxides cured by frontal polymerization. In Journal of Physics: Conference Series, 2025, vol. 3029, art.no. 012012, [4] p. (2024: 0.187 - SJR). ISSN 1742-6588. Dostupné na: <https://doi.org/10.1088/1742-6596/3029/1/012012>
- ADMB15 TUZHYKO, Andrii - KIV, Arnold - SOLOVIEV, Volodymyr - BIELINSKYI, Andrii - KAVETSKYY, Taras - SLUSARENKO, Mykola - KOROTYSH, Victor. Artificial Intelligence Methods in Quantum Chemistry. In NATO Science for Peace and Security Series B: Physics and Biophysics, 2025, p. 67-83. ISSN 1874-6500. Dostupné na: https://doi.org/10.1007/978-94-024-2316-7_4

AECA Vedecké práce v zahraničných recenzovaných zborníkoch a kratšie kapitoly/state v zahraničných vedeckých monografiách alebo VŠ učebniciach

- AECA01 KAVETSKYY, Taras - ZUBRYTSKA, Oksana - STIEVENARD, Martin - ŠAUŠA, Ondrej - ŠVAJDLENKOVÁ, Helena - SOLOVIEV, Volodymyr - BIELINSKYI, Andrii - OSTRAUSKAITE, Jolita - KIV, Arnold. Complex network methods, PALS, ATR-FTIR and EPR study of photopolymerization. In Nanotechnological Advances in Environmental, Cyber and CBRN Security. 1. - Dordrecht, The Netherlands : Springer Nature B.V., 2025, chapter 19, P. 265-284. ISBN 978-94-024-2315-0. ISSN 1874-6500. Dostupné na: https://doi.org/10.1007/978-94-024-2316-7_19
- AECA02 KIV, Arnold - SOLOVIEV, Volodymyr - TUZHYKOV, Andrii - KAVETSKYY, Taras - HOIVANOVYCH, Nataliia - ŠAUŠA, Ondrej - RUSNÁK, Jaroslav - ŠVAJDLENKOVÁ, Helena - OSTRAUSKAITE, Jolita - BIELINSKYI, Andrii - SLUSARENKO, Mykola. Machine learning interatomic potentials and orientational defects in polymers. In Nanotechnological Advances in Environmental, Cyber and CBRN Security. 1. - Dordrecht, The Netherlands : Springer Nature B.V., 2025, chapter 6, P. 91-104. ISBN 978-94-024-2315-0. ISSN 1874-6500. Dostupné na: https://doi.org/10.1007/978-94-024-2316-7_6

AEMA Abstrakty vedeckých prác v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science Core Collection alebo SCOPUS

- AEMA01 TALAČ, Tomáš - LABUDOVÁ, Martina - ŠKVARKOVÁ, Lucia - HVIZDOŠOVÁ, Adriana, Annušová - CSÁDEROVÁ, Lucia. Biological characterization of newly synthesized molybdenum nanoparticles for photothermal tumor therapy. In FEBS Open Bio, 2025, vol. 12, no. S2, p. 288. (2024: 2.3 - IF, Q3 - JCR, 0.857 - SJR, Q2 - SJR). ISSN 2211-5463. Dostupné na: <https://doi.org/10.1002/2211-5463.70071>

AFD Publikované príspevky na domácich vedeckých konferenciách

- AFD01 BARTOŠ, Erik - DUBNIČKA, Stanislav - DUBNIČKOVÁ, Anna Zuzana - LIPTAJ, Andrej. Universal unitary and analytic model of electroweak structure of hadrons in more detail. In 28th conference of Slovak physicists : Book of abstracts. Prešov, 1.-4.9.2025. Eds. A. Džubinská, M. Reiffers. - Košice : UPJŠ, 2025, p.
- AFD02 DUBNIČKA, Stanislav - DUBNIČKOVÁ, Anna Zuzana - IVANOV, M. A. - LIPTAJ, Andrej. Decays of the Bs meson. In 28th conference of Slovak physicists : Book of abstracts. Prešov, 1.-4.9.2025. Eds. A. Džubinská, M. Reiffers. - Košice : UPJŠ, 2025, p.
- AFD03 DUBNIČKOVÁ, Anna Zuzana - DUBNIČKA, Stanislav - WEISENPACHER, Peter. New estimation of $\sigma_{tot}(e^+e^- \rightarrow DD)$ from the scattering $e^-D \rightarrow e^-D$ data in the space-like region. In 28th conference of Slovak physicists : Book of abstracts. Prešov, 1.-4.9.2025. Eds. A. Džubinská, M. Reiffers. - Košice : UPJŠ, 2025, p.
- AFD04 GMUCOVÁ, Katarína. Defect Tolerance in Perovskite Solar Cells. In 28th conference of Slovak physicists : Book of abstracts. Prešov, 1.-4.9.2025. Eds. A. Džubinská, M. Reiffers. - Košice : UPJŠ, 2025, p. Dostupné na internete: <http://kf.elf.stuba.sk/~28konferencia/uvod.html>
- AFD05 CHOUHAN, Hemendra - DOBROČKA, Edmund - NÁDAŽDY, Peter - ŤAPAJNA, Milan - HUŠEKOVÁ, Kristína - MIKOLÁŠEK, M. - EGYENES, Fridrich - KESHTKAR, Javad - HRUBIŠÁK, Fedor - SOBOTA, Michal - ŠIFFALOVIČ, Peter - GUCMANN, Filip. Origin of enhanced crystal quality of (-201) β -Ga₂O₃ on off-cut sapphire substrate using liquid injection-MOCVD. In Proceedings of ADEPT 2025 : 13th International Conference on Advances in Electronic and Photonic Technologies - ADEPT, held in Podbanské, High Tatras, Slovakia, June 15th – 18th, 2025. Eds. D. Jandura, I. Lettrichová. - Žilina : University of Zilina in EDIS, 2025, p. 92-95. ISBN 978-80-554-2208-4.

- AFD06 LUBY, Štefan - HERIBAN, Richard. Artificial intelligence – technological, socio-economic and policy considerations. In Proceedings of ADEPT 2025 : 13th International Conference on Advances in Electronic and Photonic Technologies - ADEPT, held in Podbanské, High Tatras, Slovakia, June 15th – 18th, 2025. Eds. D. Jandura, I. Lettrichová. - Žilina : University of Zilina in EDIS, 2025, p. 170-173. ISBN 978-80-554-2208-4.
- AFD07 LUBY, Štefan**. Electronic noses – Physics, technology and applications. In Proceedings of ADEPT 2025 : 13th International Conference on Advances in Electronic and Photonic Technologies - ADEPT, held in Podbanské, High Tatras, Slovakia, June 15th – 18th, 2025. Eds. D. Jandura, I. Lettrichová. - Žilina : University of Zilina in EDIS, 2025, p. 12-17. ISBN 978-80-554-2208-4. Dostupné na internete: <https://adept.fyzika.uniza.sk/index.php>
- AFD08 TALAČ, Tomáš - LABUDOVÁ, Martina - ŠKVARKOVÁ, Lucia - HVIZDOŠOVÁ, Adriana, Annušová - ŠVASTOVÁ, Eliška - CSÁDEROVÁ, Lucia. Funkcionalizované nanočastice nestechiometrického oxidu molybdénu ako sľubný nástroj vo fototermálnej terapii pankreatických nádorov. In Chémia a technológie pre život : 27. celoslovenská študentská vedecká konferencia s medzinárodnou účasťou. Editori: Milena Reháková, Juraj Oravec ; recenzenti: Michal Čeppan, Martin Pisárčik. 1. vyd. - Bratislava : Fakulta chemickej a potravinárskej technológie v Slovenskej chemickej knižnici FCHPT STU, 2025, s. 284-285. ISBN 978-80-8208-162-9.
- AFD09 TALAČ, Tomáš - LABUDOVÁ, Martina - ŠKVARKOVÁ, Lucia - HVIZDOŠOVÁ, Adriana, Annušová - ŠVASTOVÁ, Eliška - CSÁDEROVÁ, Lucia. Biologický efekt aktívne zacielených nanočastíc z oxidu molybdénu vo fototermálnej terapii nádorov. In Študentská vedecká konferencia PriF UK 2025 : zborník recenzovaných príspevkov. Mária Chovancová, Táňa Sebechlebská, Dominik Kostoláni, Dominik Juračka, Dominik Šmida (eds.). 1. vyd. - Bratislava : Univerzita Komenského, 2025, s. 617-622. ISBN 978-80-223-6080-7.
- AFD10 VEIS, P. - ATIKUKKE, S. - SHETTY, S. - VEIS, M. - BUTVINOVÁ, Beata - GEJDOŠ JANOTOVÁ, Irena - JANIČKOVIČ, Dušan - ŠVEC, Peter. LIBS diagnostic of FECOB based amorphous alloys for future minor additives quantification. In Proceedings of ADEPT 2025 : 13th International Conference on Advances in Electronic and Photonic Technologies - ADEPT, held in Podbanské, High Tatras, Slovakia, June 15th – 18th, 2025. Eds. D. Jandura, I. Lettrichová. - Žilina : University of Zilina in EDIS, 2025, p. ISBN 978-80-554-2208-4.

AFG Abstrakty príspevkov zo zahraničných konferencií

- AFG01 TALAČ, Tomáš - LABUDOVÁ, Martina - ŠKVARKOVÁ, Lucia - HVIZDOŠOVÁ, Adriana, Annušová - ŠVASTOVÁ, Eliška - CSÁDEROVÁ, Lucia. CAIX-targeted molybdenum oxide nanoparticles for selective photothermal therapy in pancreatic cancer models. In XXIV. setkání biochemiků a molekulárních biologů. - Brno, Česká republika : Didot, spol. s.r.o. Brno Česká republika, 2025, p. 83-84. ISBN 978-80-280-0783-6.

AFH Abstrakty príspevkov z domácich konferencií

- AFH01 AHMAD, Faizan** - SOJKOVÁ, Michaela - ULLAH, Sami - KOZAK, Andrii - HULMAN, Martin - HRDÁ, Jana - VARGA, Marian. Synthesis of thickness controlled Bi₂O₂Se nanosheets on sapphire substrate via chemical vapor deposition. In SURFINT - SREN IX : Extended abstract book. - Slovak republic : Comenius University Bratislava, 2025, p. 26-27. ISBN 978-80-223-6152-1.

- AFH02 BAČOVÁ, Silvia - GREGUŠ, Jan - VOJTEK, Pavel - ZÁBUDLÁ, Zuzana - KOPÁNI, Martin - BRUNNER, Róbert - PINČÍK, Emil. PREFACE to the Extended Abstract Book of the 9th Progress in Applied Surface, Interface and Thin Film Science Solar Renewable Energy News (SURFINT-SREN), 18 - 20 November 2025, Smolenice Castle, Slovakia. In SURFINT - SREN IX : Extended abstract book. - Slovak republic : Comenius University Bratislava, 2025, p. 8. ISBN 978-80-223-6152-1.
- AFH03 BRUNNER, Róbert - PINČÍK, Emil - KOBAYASHI, H. - TAKAHASHI, M. - MIKULA, M. FTIR reflectance spectra of layered solar cell structures. In SURFINT - SREN IX : Extended abstract book. - Slovak republic : Comenius University Bratislava, 2025, p. 30. ISBN 978-80-223-6152-1.
- AFH04 BUJDÁK, Radovan - FABUŠOVÁ, Diana - TOKÁR, Kamil. A Computational Study of NiO Polymorphism. In 20th Central European Symposium on Theoretical Chemistry (CESTC 2025) : Book of abstracts. - Bratislava, Slovakia : Slovak University of Technology in Bratislava, 2025, p. PA9/63. ISBN 978-80-69178-00-7. Dostupné na internete: https://cestc2025.fchpt.stuba.sk/cestc2025_boa.pdf
- AFH05 DERZSI, Mariana - FABUŠOVÁ, Diana - TOKÁR, Kamil. Metal-metal interactions in an open d-shell system with cuprite structure. In 20th Central European Symposium on Theoretical Chemistry (CESTC 2025) : Book of abstracts. - Bratislava, Slovakia : Slovak University of Technology in Bratislava, 2025, p. CT/28. ISBN 978-80-69178-00-7. Dostupné na internete: https://cestc2025.fchpt.stuba.sk/cestc2025_boa.pdf
- AFH06 FABUŠOVÁ, Diana - BUJDÁK, Radovan - FERENČÍK, Filip - DOBROČKA, Edmund - TOKÁR, Kamil - DERZSI, Mariana. Theoretical prediction of novel palladium oxide phases based on ion beam synthesis experimental data. In 20th Central European Symposium on Theoretical Chemistry (CESTC 2025) : Book of abstracts. - Bratislava, Slovakia : Slovak University of Technology in Bratislava, 2025, p. PA20/74. ISBN 978-80-69178-00-7. Dostupné na internete: https://cestc2025.fchpt.stuba.sk/cestc2025_boa.pdf
- AFH07 KOVÁČOVÁ, Mária - SEDNIČKOVÁ, Michaela - HVIZDOŠOVÁ, Adriana, Annušová - TRUCHAN, Daniel - ŠPITÁLSKY, Zdenko. Filamenty s "nevšednými" plnivami pre 3D tlač. In 77. ZJAZD CHEMIKOV. - Bratislava, Slovensko : ChemZi - Chemické zvesti (Slovenský časopis o chémii, pre chemické vzdelávanie, výskum a priemysel), 21/1 (2025) : Slovenská chemická spoločnosť, 2025, s. 157-158. ISSN 1336-7242.
- AFH08 PINČÍK, Emil - BRUNNER, Róbert - TAKAHASHI, M. - MIKULA, M. - KUČERA, Michal - VOJTEK, P. - ZÁBUDLÁ, Z. - GREGUŠ, J. - BAČOVÁ, Silvia. About Photoluminescence Of Black And Porous Silicons. In SURFINT - SREN IX : Extended abstract book. - Slovak republic : Comenius University Bratislava, 2025, p. 78. ISBN 978-80-223-6152-1.
- AFH09 PINČÍK, Emil - TAKAHASHI, Masao - MIKULA, Milan - JERGEL, Matej - ZABUDLA, Zuzana - BAČOVÁ, Silvia - BRUNNER, Róbert - VOJTEK, Pavel - GREGUS, Jan. Investigation of KCN treated structures deposited on n-type c-Si(100) and p-type c-Si(100). In SURFINT - SREN IX : Extended abstract book. - Slovak republic : Comenius University Bratislava, 2025, p. 21. ISBN 978-80-223-6152-1.
- AFH10 PINČÍK, Emil - BRUNNER, Róbert - TAKAHASHI, Masao - MIKULA, Milan - ZABUDLA, Zuzana - BAČOVÁ, Silvia - VOJTEK, Pavel. Interaction of cyanide solutions with n-i-p-TCO/glass structure. In SURFINT - SREN IX : Extended abstract book. - Slovak republic : Comenius University Bratislava, 2025, p. 15. ISBN 978-80-223-6152-1.
- AFH11 ŠEBOVÁ, Eva - BONDAREV, Dmitrij - MAŤKO, Igor - ŠAUŠA, Ondrej - KLBIK,

- Ivan. Evaluation of PEG 400 and PEG-based oligomer for 3T3 fibroblast cryopreservation. In Ústav polymérov SAV. Bypos 2025 : book of abstracts. 1. - Bratislava : Polymer Institute of SAS, 2025, p. 44. ISBN 978-80-89841-22-6.
- AFH12 ŠKORVÁNEK, Ivan** - KUNCA, Branislav - MARCIN, Jozef - ŠVEC, Peter. Soft Magnetic Nanocrystalline Alloys Prepared by Ultra-Rapid Annealing. In CSMAG'25 : 18th Czech and Slovak Conference on Magnetism, July 7-11, 2025, High Tatras, Slovak Republic. 1. vyd. - Košice : ŠafárikPress Publishing, 2025, p.38. ISBN 978-80-574-0423-1.
- AFH13 TALAČ, Tomáš - LABUDOVÁ, Martina - ŠKVARKOVÁ, Lucia - HVIZDOŠOVÁ, Adriana, Annušová - ŠVASTOVÁ, Eliška - CSÁDEROVÁ, Lucia. Biologické účinky funkcionalizovaných molybdénových nanočastíc pri fototermálnej terapii nádorových buniek. In PREVEDA : Interaktívna konferencia mladých vedcov 2025. - Banská Bystrica : Občianske združenie Preveda, 2025, s. Biológia. ISBN 978-80-99936-86-8. Dostupné na internete: <https://www.preveda.sk/abstrakt/biologicke-ucinky-funkcionalizovanych-molybdenovych-nanocastic-pri-fototermalnej-terapii>
- AFH14 TOKÁR, Kamil** - TURANSKÝ, Robert. DFT insights into defect and temperature-dependent band gaps in halide perovskites. In 20th Central European Symposium on Theoretical Chemistry (CESTC 2025) : Book of abstracts. - Bratislava, Slovakia : Slovak University of Technology in Bratislava, 2025, p. CT3/30. ISBN 978-80-69178-00-7. Dostupné na internete: https://cestc2025.fchpt.stuba.sk/cestc2025_boa.pdf
- AFH15 TOKÁROVÁ, Zita - TOKÁR, Kamil. Electronic structure of small organic molecules: DFT insights compared to experimental results. In 20th Central European Symposium on Theoretical Chemistry (CESTC 2025) : Book of abstracts. - Bratislava, Slovakia : Slovak University of Technology in Bratislava, 2025, p. PB29/117. ISBN 978-80-69178-00-7. Dostupné na internete: https://cestc2025.fchpt.stuba.sk/cestc2025_boa.pdf
- AFH16 VOJTEK, Pavel - PINČÍK, Emil - TAKAHASHI, Masao - ZABUDLA, Zuzana - GREGUŠ, Ján - BAČOVÁ, Silvia. Investigation of etched Si wafer surfaces by the photoluminescence and spectral reflectance. In SURFINT - SREN IX : Extended abstract book. - Slovak republic : Comenius University Bratislava, 2025, p. 100. ISBN 978-80-223-6152-1.

AFL Postery z domácich konferencií

- AFL01 BUTVINOVÁ, Beata** - GEJDOŠ JANOTOVÁ, Irena - ŠVEC, Peter Jr. - JANIČKOVIČ, Dušan - PLEVACHUK, Yuriy - ŠVEC, Peter. Soft magnetic properties of FeCoB/Cu nanocrystalline ribbons. In CSMAG'25 : 18th Czech and Slovak Conference on Magnetism–CSMAG'25, July 7-11, 2025, High Tatras, Slovak Republic. 1. vyd. - Košice : ŠafárikPress Publishing, 2025, p. ISBN 978-80-574-0423-1. Dostupné na internete: <https://zenodo.org/records/15880343>
- AFL02 MORAVČÍKOVÁ, Jana** - TKÁČIKOVÁ, S. - HOFBAUEROVÁ, Monika, Benkovičová - HALAHOVETS, Yuriy - KOTLÁR, Mário - ČERVENÁKOVÁ, M. - MALIAR, T. - BLAŽKOVÁ, M. - MALIAROVÁ, Mária - KOREŇ, Jozef - ÜRGEOVÁ, Eva - UVÁČKOVÁ, Ľubica. Plant-mediated green synthesis of silver nanoparticles and their characterization. In Applied Natural Sciences 2025 : book of Abstracts, 17th – 19th of September 2025, Štrbské Pleso. - Trnava : University of Ss. Cyril and Methodius in Trnava, 2025, p. 32. ISBN ISBN 978-80-572-0542-5.

BEE Odborné práce v zahraničných zborníkoch (konferenčných aj nekonferenčných, recenzovaných a nerecenzovaných)

- BEE01 ČECHOVÁ, Katarína - ŠTIBRÁNIOVÁ, Iveta - GALFIOVÁ, Paulína - BALCERZAK, Lucja - KLBIK, Ivan - WACZULIKOVA, Iveta - SIKUROVA, Libusa. Impact of DMSO concentrations on cell death markers and viability in cryopreserved human keratinocytes. In The 18th Cryogenics 2025 IIR Conference : Proceedings. - Praha, Czech Republic : ICCEX, 2025, p. 352-358. ISBN 0151-1637. ISSN 978-2-36215-053-1.
- BEE02 HVIZDOŠOVÁ, Adriana, Annušová - KOLLÁR, Jozef - KRONEK, Juraj - MINARČÍKOVÁ, Alžbeta - TRUCHAN, Daniel - JERGEL, Matej - KRONEKOVÁ, Zuzana. Polymer-embedded MoOx-based Nanoconjugates: Toward Advanced Photothermal Platforms. In 17th International Conference on Nanomaterials - Research & Application - NANOCON 2025 : Book of Abstracts. - Czech Republic : TANGER, Ltd., Ostrava, Czech Republic, 2025, p. 116. ISBN 978-80-88365-29-7. ISSN 2694-930X.
- BEE03 MAŤKO, Igor - KLBIK, Ivan - ŠAUŠA, Ondrej - ŠVAJDLENKOVÁ, Helena. Pórovité uhlíkové vlákna pripravené z celulózy ako nosiče častíc účinných látok. In Termoanalytický seminár : zborník príspevků. - Ostrava, ČR : česká společnost chemická, z.s., 2025, p. 94-98. ISBN 978-80-88307-23-5.

BEF Odborné práce v domácich zborníkoch (konferenčných aj nekonferenčných, recenzovaných a nerecenzovaných)

- BEF01 BUTVINOVÁ, Beata** - GEJDOŠ JANOTOVÁ, Irena - ŠVEC, Peter - PLEVACHUK, Yuriy - JANIČKOVIČ, Dušan. Long-term magnetic stability of nanocrystalline FeCuBPSi alloys. In JANIČKOVIČ, Dušan. ISMANAM 2025 - 29th International Symposium on Metastable, Amorphous, and Nanostructured Materials : Program and Abstracts. - Bratislava, Slovak republic : VEDA, Publishing House of the Slovak Academy of Sciences, 2025, p. Po-05. ISBN 978-80-224-2124-9.
- BEF02 FERNÁNDEZ-CUEVAS, C.I. - CAMPOS-HERNÁNDEZ, A.J. - PALMERO, E.M. - ŠVEC, Peter Jr. - ŠVEC, Peter - BOLLERO, A. Crystallization Temperature Driven Phase Evolution and Magnetic Behaviour in Fe-Ni-P-C Ribbons. In JANIČKOVIČ, Dušan. ISMANAM 2025 - 29th International Symposium on Metastable, Amorphous, and Nanostructured Materials : Program and Abstracts. - Bratislava, Slovak republic : VEDA, Publishing House of the Slovak Academy of Sciences, 2025, p. O-08. ISBN 978-80-224-2124-9.
- BEF03 MRKÝVKOVÁ, Nad'a, Tesařová** - HELD, V. - NÁDAŽDY, Peter - VÉGSÖ, Karol - GUESNAY, Q. - ZHENG, D. - SCHREIBER, F. - ŠIFFALOVIČ, Peter. Perovskite Thin Film Growth: Structural and Optoelectronic Characterization. In JANIČKOVIČ, Dušan. ISMANAM 2025 - 29th International Symposium on Metastable, Amorphous, and Nanostructured Materials : Program and Abstracts. - Bratislava, Slovak republic : VEDA, Publishing House of the Slovak Academy of Sciences, 2025, p. I-13. ISBN 978-80-224-2124-9.
- BEF04 PLEVACHUK, Yuriy** - ŠVEC, Peter Jr. - MAŤKO, Igor - JANIČKOVIČ, Dušan - YAKYMOVYCH, Andriy - POVERZHUK, Viktor. Structure and electrical resistivity of the Bi-In-Sn-Zn-Cu-Ag alloys. In JANIČKOVIČ, Dušan. ISMANAM 2025 - 29th International Symposium on Metastable, Amorphous, and Nanostructured Materials : Program and Abstracts. - Bratislava, Slovak republic : VEDA, Publishing House of the Slovak Academy of Sciences, 2025, p. Po-30. ISBN 978-80-224-2124-9.
- BEF05 SHTABLAHYI, Ihor - PLEVACHUK, Yuriy - KULYK, Yuny - SERKIZ, Roman - SLAVIK, Yuny - JANIČKOVIČ, Dušan - MUDRY, Stepan. Formation of ordered metal arrays as a result of rapid solidification of alloys. In JANIČKOVIČ, Dušan. ISMANAM 2025 - 29th International Symposium on Metastable, Amorphous, and

Nanostructured Materials : Program and Abstracts. - Bratislava, Slovak republic : VEDA, Publishing House of the Slovak Academy of Sciences, 2025, p. Po-32. ISBN 978-80-224-2124-9.

BEF06 ŠKORVÁNEK, Ivan** - KUNCA, Branislav - MARCIN, Jozef - ŠVEC, Peter Jr. - ŠVEC, Peter. Impact of elevated temperature on soft magnetic properties of rapidly annealed nanocrystalline high-Bs Fe-Co-B-Cu alloys. In JANIČKOVIČ, Dušan. ISMANAM 2025 - 29th International Symposium on Metastable, Amorphous, and Nanostructured Materials : Program and Abstracts. - Bratislava, Slovak republic : VEDA, Publishing House of the Slovak Academy of Sciences, 2025, p. 1-18. ISBN 978-80-224-2124-9.

BEF07 YAKYMOVYCH, Andriy - WODAK, Irina - ŠVEC, Peter - ŠVEC, Peter Jr. - PLEVACHUK, Yuriy - MITTERER, Claudia - KHATIBI, Colta. Hybrid solder joints: characterization of the core/shell Fe/oxide nanosized particles. In JANIČKOVIČ, Dušan. ISMANAM 2025 - 29th International Symposium on Metastable, Amorphous, and Nanostructured Materials : Program and Abstracts. - Bratislava, Slovak republic : VEDA, Publishing House of the Slovak Academy of Sciences, 2025, p. Po-37. ISBN 978-80-224-2124-9.

FAI Zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy, slovníky, zborníky, atlasy ...)

FAI01 SURFINT - SREN IX : Extended abstract book. Slovak republic : Comenius University Bratislava, 2025. 106 p. Dostupné na internete: <https://www.surfintsren.sk/proceedings/>. ISBN 978-80-223-6152-1

FAI02 GEJDOŠ JANOTOVÁ, Irena - JANIČKOVIČ, Dušan - ŠVEC, Peter. Program and Abstracts. Irena Gejdoš Janotová, Dušan Janičkovič, Peter Švec (Sr.). Bratislava : VEDA, Publishing House of the Slovak Academy of Sciences, 2025. Edition No. 4806. ISBN 978-80-224-2124-9

FAI03 JANIČKOVIČ, Dušan. ISMANAM 2025 - 29th International Symposium on Metastable, Amorphous, and Nanostructured Materials : Program and Abstracts. Bratislava, Slovak republic : VEDA, Publishing House of the Slovak Academy of Sciences, 2025. Dostupné na internete: <https://ismanam2025.sav.sk/>. ISBN 978-80-224-2124-9

GII Rôzne publikácie a dokumenty, ktoré nemožno zaradiť do žiadnej z predchádzajúcich kategórií

GII01 KAVETSKYY, Taras - TUZHYKOV, A. - KUKHAZH, Y. - HOIVANOVYCH, N. - ŠAUŠA, Ondrej - ZGARDZINSKA, B. - ŠVAJDLENKOVÁ, Helena - WAROWNA, J. - SOLOVIEV, V. - KIV, A. Positron annihilation and AI-technology for creation of novel biosensors. In ICPA20 : The 20th International Conference on Positron Annihilation : book of abstracts, poster presentation. - Takamatsu, Japan : University of Takamatsu, 2025, rO-14.

GII02 ŠAUŠA, Ondrej - ŠVAJDLENKOVÁ, Helena. Photopolymerization of dimethacrylates in confinement. In ICPA20 : The 20th International Conference on Positron Annihilation : book of abstracts, poster presentation. - Takamatsu, Japan : University of Takamatsu, 2025, rO-19.

GII03 ŠKORVÁNEK, Ivan - MARCIN, Jozef - KUNCA, Branislav - ŠVEC, Peter. Role of Rapid Annealing in Improving Grain Refinement and Magnetic Softness of FeNi-Based Nanocrystalline Alloys. In ICSM 2025 and ICQMT 2025 : 10th International Conference on Superconductivity and Magnetism and 3rd International Conference on Quantum Materials and Technologies, 26th April-03rd May 2025 Ölüdeniz-

- GII04 Fethiye, Turkey. 1. vyd. - [S.l.: s.n.], 2025, p. 419.
ŠVAJDLENKOVÁ, Helena - KRÁLOVIČ, D.P. - ŠAUŠA, Ondrej. PALS technique as a useful tool for investigation of the frontal polymerization. In ICPA20 : The 20th International Conference on Positron Annihilation : book of abstracts, poster presentation. - Takamatsu, Japan : University of Takamatsu, 2025, p-45.

Ohlasy (citácie):

*ADC Vedecké práce v zahraničných karentovaných časopisoch

- ADC01 MIGLIERINI, Marcel - KAŇUCH, Tomáš - ŠVEC, Peter - KRENICKÝ, Tibor - VŮJTEK, Milan - ZBOŘIL, Radek. Magnetic microstructure of NANOPERM-type nanocrystalline alloys. In physica status solidi. b.basic solid state physics, 2006, vol. 243, no. 1, p. 57-64. (2005: 0.836 - IF, Q3 - JCR, 0.746 - SJR, Q2 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 0370-1972. Dostupné na: <https://doi.org/10.1002/pssb.200562446>
Citácie:
1. [1.1] KARAKASH, Yevhen - RIMAR, Miroslav - KARPOVYCH, Olena - ZHUMAR, Denys - KIZEK, Jan - FEDAK, Marcel - KULIKOV, Andrii. DEVELOPMENT OF A MATHEMATICAL MODEL FOR THE ENERGY BALANCE OF THE LASER CLADDING PROCESS OF METALLIC POWDERS WITH A COAXIAL NOZZLE. In MM SCIENCE JOURNAL, 2024, vol. 2024, no., pp. 7265-7273. ISSN 1803-1269. Dostupné na: https://doi.org/10.17973/MMSJ.2024_03_2023152, Registrované v: WOS
2. [1.1] MASCENIK, Jozef. EXPERIMENTAL ASSESSMENT OF CHANGES IN THE STRUCTURE OF FOOD-GRADE ANTICORROSION STEEL DUE TO THE USE OF FLOWDRILL TECHNOLOGY. In MM SCIENCE JOURNAL, 2024, vol. 2024, no., pp. 8010-8013. ISSN 1803-1269. Dostupné na: https://doi.org/10.17973/MMSJ.2024_12_2024104, Registrované v: WOS
3. [1.2] PALLAVI, B. N. - SWETHA, A. K. - JALDAR, Rajashree - JOSHI, Rajeev S. - REDDY, C. Vishnuvardhan - HEGDE, B. G. Non arrhenius magnetotransport and spin accumulation in CuAlTe2. In Aip Conference Proceedings, 2024-01-12, 2995, 1, pp. ISBN [9780735447646]. ISSN 0094243X. Dostupné na: <https://doi.org/10.1063/5.0178232>, Registrované v: SCOPUS
- ADC02 ŠKORVÁNEK, Ivan - KIM, C.G. - KOVÁČ, Jozef - ŠVEC, Peter - SATO TURTELLI, Reiko. Soft magnetic behaviour and permeability spectra in amorphous and nanocrystalline Fe80.5Nb7B12.5 alloys. In Journal of Magnetism and Magnetic Materials, 2000, vol. 215-216, p. 440-442. (1999: 1.195 - IF, karentované - CCC). (2000 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: [https://doi.org/10.1016/S0304-8853\(00\)00183-9](https://doi.org/10.1016/S0304-8853(00)00183-9)
Citácie:
1. [1.1] MENG, Yuting - YANG, Yujie - CHEN, Dongyang - ZHANG, Yingming - CHEN, Congliang - LI, Hao - ZHANG, Zhenyu. Influence of four kinds of organic binders on magnetic properties of FeSiCrC magnetic powder and magnetic powder core. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 2024, vol. 35, no. 13, art. no. 913. ISSN 0957-4522. Dostupné na: <https://doi.org/10.1007/s10854-024-12665-7>, Registrované v: WOS

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

- ADCA01 ADACHI, Yuuki - WEN, Fei Huan - ZHANG, Quanzhen - MIYAZAKI, Masato - SUGAWARA, Yasuhiro - SANG, Hongqian - BRNDIAR, Ján - KANTOROVICH, Lev - ŠTICH, Ivan - LI, Yan Jun. Tip-Induced Control of Charge and Molecular Bonding of Oxygen Atoms on the Rutile TiO₂ (110) Surface with Atomic Force Microscopy. In ACS Nano, 2019, vol. 13, no. 6, p. 6917-6924. (2018: 13.903 - IF, Q1 - JCR, 6.214 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1936-0851. Dostupné na: <https://doi.org/10.1021/acsnano.9b01792>
- Citácie:
- [1.1] GUO, Qiang - REN, Xiaosen - SHU, Pengli - TIAN, Xin - WEI, Jiuyan - QU, Zhang - WEN, Huanfei - TANG, Jun - LI, Yanjun - SUGAWARA, Yasuhiro - MA, Zongmin - LIU, Jun. Clarification of Au dimer adsorption sites on Si (111)-7 x 7 surface by AFM/KPFM. In PHYSICA SCRIPTA, 2024, vol. 99, no. 5, art. no. 055982. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad2d2a>, Registrované v: WOS
 - [1.1] QU, Zhang - WEI, Jiuyan - SUGAWARA, Yasuhiro - LI, Yanjun. Investigation of atomic surface potential on Si(111)-7x7 surface by high-frequency heterodyne-Kelvin probe force microscopy. In SURFACES AND INTERFACES, 2024, vol. 49, no., art. no. 104441. ISSN 2468-0230. Dostupné na: <https://doi.org/10.1016/j.surfin.2024.104441>, Registrované v: WOS
 - [1.1] WANG, Ruimin - WANG, Binli - ABDULLAHI, Abubakar Sadiq - FAN, Hongjun. Understanding the prototype catalyst TiO₂ surface with the help of density functional theory calculation. In WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE, 2024, vol. 14, no. 1, art. no. e1686. ISSN 1759-0876. Dostupné na: <https://doi.org/10.1002/wcms.1686>, Registrované v: WOS
 - [1.1] ZHOU, Kai - LI, Le. Nanotip-induced electric field for electrocatalysis. In JOURNAL OF ALLOYS AND COMPOUNDS, 2024, vol. 1002, no., art. no. 175549. ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.175549>, Registrované v: WOS
 - [1.1] ZHU, Qiang - ADACHI, Yuuki - WEN, Huanfei - XU, Rui - CHENG, Zhihai - SUGAWARA, Yasuhiro - LI, Yanjun. Charge State of Au Atoms on an Oxidized Rutile TiO₂(110) Surface by AFM/KPFM at 78 K. In LANGMUIR, 2024, vol. 40, no. 2, pp. 1358-1363. ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.3c02999>, Registrované v: WOS
- ADCA02 ADACHI, Yuuki - BRNDIAR, Ján - KONÔPKA, M. - TURANSKÝ, Robert - ZHU, Qiang - WEI, Huan Fei - SUGAWARA, Yasuhiro - KANTOROVICH, Lev - ŠTICH, Ivan - LI, Yanjun**. Tip-activated single-atom catalysis: CO oxidation on Au adatom on oxidized rutile TiO₂ surface. In Science Advances, 2023, vol. 9, no. 39, art. no. eadi4799. (2022: 13.6 - IF, Q1 - JCR, 4.598 - SJR, Q1 - SJR). ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.adi4799>
- Citácie:
- [1.1] SUMARIA, Vaidish - RAWAL, Takat B. - LI, Young Feng - SOMMER, David - VIKOREN, Jake - BONDI, Robert J. - RUPP, Matthias - PRASAD, Amrit - PRASAD, Deeptanshu. Machine Learning, Density Functional Theory, and Experiments to Understand the Photocatalytic Reduction of CO₂ on CuPt/TiO₂. In JOURNAL OF PHYSICAL CHEMISTRY C, 2024, vol. 128, no. 34, pp. 14247-14258. ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.4c02275>, Registrované v: WOS
 - [1.1] WANG, Sheng - LI, Xiaoman - LAI, Chengyue - ZHANG, Yaping - LIN, Xiao - DING, Shipeng. Recent advances in noble metal-based catalysts for CO oxidation. In RSC ADVANCES, 2024, vol. 14, no. 42, pp. 30566-30581. Dostupné na: <https://doi.org/10.1039/d4ra05102e>, Registrované v: WOS

- ADCA03 ADAMCZEWSKI-MUSCH, J. - ARNOLD, O. - BEHNKE, C. - BELOUNNAS, A. - BELYAEV, A. - FILIP, Peter - HLAVÁČ, Stanislav. A facility for pion-induced nuclear reaction studies with HADES. In European Physical Journal A, 2017, vol. 53, no. 9, p. 188. (2016: 2.833 - IF, Q2 - JCR, 0.561 - SJR, Q3 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/i2017-12365-7>
- Citácie:
- [1.1] KITTIRATPATTANA, Apiwit - REICHERT, Tom - BUYUKCIZMECI, Nihal - BOTVINA, Alexander - LIMPHIRAT, Ayut - HEROLD, Christoph - STEINHEIMER, Jan - BLEICHER, Marcus. Production of nuclei and hypernuclei in pion-induced reactions near threshold energies. In PHYSICAL REVIEW C, 2024, vol. 109, no. 4, art. no. 044913. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.044913>, Registrované v: WOS
- ADCA04 ADAMCZEWSKI-MUSCH, J. - ARNOLD, O. - BEHNKE, C. - BELOUNNAS, A. - BELYAEV, A. - FILIP, Peter - HLAVÁČ, Stanislav. Centrality determination of Au plus Au collisions at 1.23A GeV with HADES. In European Physical Journal A, 2018, vol. 54, no. 5, p. 85. (2017: 2.799 - IF, Q2 - JCR, 1.116 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/i2018-12513-7>
- Citácie:
- [1.1] HOLZMANN, Romain - KOCH, Volker - RUSTAMOV, Anar - STROTH, Joachim. Controlling volume fluctuations for studies of critical phenomena in nuclear collisions. In NUCLEAR PHYSICS A, 2024, vol. 1050, no., art. no. 122924. ISSN 0375-9474. Dostupné na: <https://doi.org/10.1016/j.nuclphysa.2024.122924>, Registrované v: WOS
 - [1.1] KUMMER, C. - GALLMEISTER, K. - VON SMEKAL, L. Medium modification of pion production in low-energy Au plus Au collisions. In PHYSICAL REVIEW C, 2024, vol. 109, no. 5, art. no. 054901. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.054901>, Registrované v: WOS
 - [1.1] REICHERT, Tom - STEINHEIMER, Jan - BLEICHER, Marcus. 3-dimensional flow analysis: A novel tool to study the collision geometry and the equation-of-state. In NUCLEAR PHYSICS A, 2024, vol. 1041, no., art. no. 122790. ISSN 0375-9474. Dostupné na: <https://doi.org/10.1016/j.nuclphysa.2023.122790>, Registrované v: WOS
 - [1.1] YANG, Zhidong - SUN, Yifeng - CHEN, LieWen. Baryon-density dependence of viscosities of the quark-gluon plasma at hadronization. In PHYSICAL REVIEW C, 2024, vol. 109, no. 5, art. no. 054907. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.054907>, Registrované v: WOS
- ADCA05 ADAMCZEWSKI-MUSCH, J. - ARNOLD, O. - BEHNKE, C. - BELOUNNAS, A. - BELYAEV, A. - FILIP, Peter - HLAVÁČ, Stanislav. Charged-pion production in Au plus Au collisions at root s(NN)=2.4 GeV. In European Physical Journal A, 2020, vol. 56, no. 10, 259. (2019: 2.176 - IF, Q2 - JCR, 0.991 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-020-00237-2>
- Citácie:
- [1.1] FLORKOWSKI, Wojciech - SALABURA, Piotr - WITKOWSKI, Nikodem - RYBLEWSKI, Radoslaw. DEUTERON PRODUCTION IN A COMBINED THERMAL AND COALESCENCE FRAMEWORK FOR HEAVY-ION COLLISIONS IN THE FEW-GeV ENERGY REGIME. In ACTA PHYSICA POLONICA B, 2024, vol. 55, no. 2, art. no. 2A2. ISSN 0587-4254. Dostupné na:

<https://doi.org/10.5506/APhysPolB.55.2-A2>, Registrované v: WOS

2. [1.1] NAN, Manzi - LI, Pengcheng - WANG, Yongjia - LI, Qingfeng - ZUO, Wei. *Isospin-dependent in-medium nucleon-Delta elastic cross section*. In *EUROPEAN PHYSICAL JOURNAL A*, 2024, vol. 60, no. 6, art. no. 131. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01349-9>, Registrované v: WOS

3. [1.1] SORENSEN, Agnieszka - AGARWAL, Kshitij - BROWN, Kyle W. - CHAJECKI, Zbigniew - DANIELEWICZ, Pawel - DRISCHLER, Christian - GANDOLFI, Stefano - HOLT, Jeremy W. - KAMINSKI, Matthias - KO, Che-Ming - KUMAR, Rohit - LI, Bao-An - LYNCH, William G. - MCINTOSH, Alan B. - NEWTON, William G. - PRATT, Scott - SAVCHUK, Oleh - STEFANIAK, Maria - TEWS, Ingo - TSANG, ManYee Betty - VOGT, Ramona - WOLTER, Hermann - ZBROSZCZYK, Hanna - ABBASI, Navid - AICHELIN, Joerg - ANDRONIC, Anton - BASS, Steffen A. - BECATTINI, Francesco - BLASCHKE, David - BLEICHER, Marcus - BLUME, Christoph - BRATKOVSKAYA, Elena - BROWN, B. Alex - BROWN, David A. - CAMAIANI, Alberto - CASINI, Giovanni - CHATZIOANNOU, Katerina - CHBIHI, Abdelouahad - COLONNA, Maria - COZMA, Mircea Dan - DEXHEIMER, Veronica - DONG, Xin - DORE, Travis - DU, Lipei - DUENAS, Jose A. - ELFNER, Hannah - FLORKOWSKI, Wojciech - FUJIMOTO, Yuki - FURNSTAHL, Richard J. - GADE, Alexandra. *Dense nuclear matter equation of state from heavy-ion collisions*. In *PROGRESS IN PARTICLE AND NUCLEAR PHYSICS*, 2024, vol. 134, no., art. no. 104080. ISSN 0146-6410. Dostupné na: <https://doi.org/10.1016/j.ppnp.2023.104080>, Registrované v: WOS

ADCA06

ADAMCZEWSKI-MUSCH, J. - ARNOLD, O. - BEHNKE, C. - BELOUNNAS, A. - BELYAEV, A. - FILIP, Peter - HLAVÁČ, Stanislav. *Identical pion intensity interferometry at root s(NN)=2.4 GeV HADES collaboration*. In *European Physical Journal A*, 2020, vol. 56, no. 5, 140. (2019: 2.176 - IF, Q2 - JCR, 0.991 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-020-00116-w>

Citácie:

1. [1.1] DU, Lipei - SORENSEN, Agnieszka - STEPHANOV, Mikhail. *The QCD phase diagram and Beam Energy Scan physics: A theory overview*. In *INTERNATIONAL JOURNAL OF MODERN PHYSICS E*, 2024, vol. 33, no. 07, art. no. 2430008. ISSN 0218-3013. Dostupné na:

<https://doi.org/10.1142/S021830132430008X>, Registrované v: WOS

2. [1.1] KOROBITSYN, A. - KRAEVA, A. - MIKHAILOV, K. - NIGMATKULOV, G. - PISHCHAEVA, A. *Femtoscopic Correlations of Charged Pions and Kaons in Au plus Au Collisions at BES-I STAR Energy Region with the UrQMD Model*. In *PHYSICS OF PARTICLES AND NUCLEI*, 2024, vol. 55, no. 4, pp. 879-883. ISSN 1063-7796. Dostupné na: <https://doi.org/10.1134/S1063779624700448>, Registrované v: WOS

3. [1.1] KUMAR, Rajesh - DEXHEIMER, Veronica - JAHAN, Johannes - NORONHA, Jorge - NORONHA-HOSTLER, Jacquelyn - RATTI, Claudia - YUNES, Nico - NAVA ACUNA, Angel Rodrigo - ALFORD, Mark - ANIK, Mahmudul Hasan - CHATTERJEE, Debarati - CHATZIOANNOU, Katerina - CHEN, Hsin-Yu - CLEVINGER, Alexander - CONDE, Carlos - CRUZ-CAMACHO, Nikolas - DORE, Travis - DRISCHLER, Christian - ELFNER, Hannah - ESSICK, Reed - FRIEDENBERG, David - GHOSH, Suprovo - GREFA, Joaquin - HAAS, Roland - HABER, Alexander - HAMMELMANN, Jan - HARRIS, Steven - HASTER, Carl-Johan - HATSUDA, Tetsuo - HIPPERT, Mauricio - HIRAYAMA, Renan - HOLT, Jeremy W. - KAHANGIRWE, Micheal - KARTHEIN, Jamie - KOJO, Toru - LANDRY, Philippe - LIN, Zidu - LUZUM, Matthew -

MANNING, Timothy Andrew - SALINAS SAN MARTIN, Jordi - MILLER, Cole - MOST, Elias Roland - MROCZEK, Debora - MURONGA, Azwinndini - PATINO, Nicolas - PETERSON, Jeffrey - PLUMBERG, Christopher - PRICE, Damien - PROVIDENCIA, Constanca - ROUGEMONT, Romulo. Theoretical and experimental constraints for the equation of state of dense and hot matter. In *LIVING REVIEWS IN RELATIVITY*, 2024, vol. 27, no. 1, art. no. 3. ISSN 2367-3613. Dostupné na: <https://doi.org/10.1007/s41114-024-00049-6>, Registrované v: WOS

4. [1.1] KUMMER, C. - GALLMEISTER, K. - VON SMEKAL, L. Medium modification of pion production in low-energy Au plus Au collisions. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 5, art. no. 054901. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.054901>, Registrované v: WOS

5. [1.1] WANG, Ting-Ting - MA, Yu-Gang - ZHANG, Song. Calculation of momentum correlation functions between π , K, and p for several heavy-ion collision systems at $\sqrt{s_{NN}}=39$ GeV. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 2, art. no. 024912. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.024912>, Registrované v: WOS

ADCA07

ADAMCZEWSKI-MUSCH, J. - ARNOLD, O. - BEHNKE, C. - BELOUNNAS, A. - BELYAEV, A. - FILIP, Peter - HLAVÁČ, Stanislav. Sub-threshold production of K ^{0} mesons and Lambda hyperons in Au plus Au collisions at root s(NN)=2.4 GeV. In *Physics Letters B*, 2019, vol. 793, p. 457-463. (2018: 4.162 - IF, Q2 - JCR, 1.806 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2019.03.065>

Citácie:

1. [1.1] ABDULHAMID, M.I. - ABOONA, B.E. - ADAM, J. - et al. Strangeness production in $\sqrt{s_{NN}}=3$ GeV Au+Au collisions at RHIC. In *JOURNAL OF HIGH ENERGY PHYSICS*, 2024, vol. 2024, no. 10, art. no. 139., Registrované v: WOS

2. [1.1] KAULUGIN, N.K. - MOISEEV, V.V. - MOCHALOV, V.V. - et al. K ^{0} Meson Production in π -A Interactions at Accelerator Complex U-70. In *PHYSICS OF ATOMIC NUCLEI*, 2024, vol. 87, no. 3, pp.200-207., Registrované v: WOS

ADCA08

ADAMCZEWSKI-MUSCH, J. - ARNOLD, O. - BEHNKE, C. - BELOUNNAS, A. - BELYAEV, A. - FILIP, Peter - HLAVÁČ, Stanislav. Probing dense baryon-rich matter with virtual photons. In *Nature Physics*, 2019, vol. 15, no. 10, p. 1040-1045. (2018: 20.113 - IF, Q1 - JCR, 9.515 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1745-2473. Dostupné na: <https://doi.org/10.1038/s41567-019-0583-8>

Citácie:

1. [1.1] AUMANN, T. - BERTULANI, CA - DUER M. - et al. Nuclear structure opportunities with GeV radioactive beams at FAIR. In *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES*, 2024 vol. 382, art. no. 2275., Registrované v: WOS

2. [1.1] REICHERT, Tom - STEINHEIMER, Jan - BLEICHER, Marcus. 3-dimensional flow analysis: A novel tool to study the collision geometry and the equation-of-state. In *Nuclear Physics A*, 2024-01-01, 1041, pp. ISSN 03759474. Dostupné na: <https://doi.org/10.1016/j.nuclphysa.2023.122790>, Registrované v: SCOPUS

3. [1.2] ACHENBACH, P. - ADHIKARI, D. - AFANASEV, A. - AFZAL, F. - AIDALA, C. A. - AL-BATAINEH, A. - ALMAALOL, D. K. - AMARYAN, M. - ANDROÍĆ, D. - ARMSTRONG, W. R. - ARRATIA, M. - ARRINGTON, J. - ASATURYAN, A. - ASCHENAUER, E. C. - ATAC, H. - AVAKIAN, H. - AVERETT,

- T. - AYERBE GAYOSO, C. - BAI, X. - BARISH, K. N. - BARNEA, N. - BASAR, G. - BATTAGLIERI, M. - BATY, A. A. - BAUTISTA, I. - BAZILEVSKY, A. - BEATTIE, C. - BEHERA, S. C. - BELLINI, V. - BELLWIED, R. - BENESCH, J. F. - BENMOKHTAR, F. - BERNARDES, C. A. - BERNAUER, J. C. - BHATT, H. - BHATTA, S. - BOER, M. - BOETTCHER, T. J. - BOGACZ, S. A. - BOSSI, H. J. - BRANDENBURG, J. D. - BRASH, E. J. - BRICEÑO, R. A. - BRISCOE, W. J. - BRODSKY, S. J. - BROWN, D. A. - BURKERT, V. D. - CAINES, H. - CALI, I. A. - CAMSONNE, A. - CARMAN, D. S. - CAYLOR, J. - CERCI, D. S. - CERCI, S. - CHAMIZO LLATAS, M. - CHATTERJEE, S. - CHEN, J. P. - CHEN, Y. - CHEN, Y. C. - CHIEN, Y. T. - CHOU, P. C. - CHU, X. - CHUDAKOV, E. - CLINE, E. - CLOËT, I. C. - COLE, P. L. - CONNORS, M. E. - CONSTANTINOU, M. - COSYN, W. - COVRIG DUSA, S. - CRUZ-TORRES, R. - D'ALESIO, U. - DA SILVA, C. - DAVOUDI, Z. - DEAN, C. T. - DEAN, D. J. - DEMARTEAU, M. - DESHPANDE, A. - DETMOLD, W. - DEUR, A. - DEVKOTA, B. R. - DHITAL, S. - DIEFENTHALER, M. - DOBBS, S. - DÖRING, M. - DONG, X. - DOTEL, R. - DOW, K. A. - DOWNIE, E. J. - DRACHENBERG, J. L. - DUMITRU, A. - DUNLOP, J. C. - DUPRE, R. - DURHAM, J. M. - DUTTA, D. - EDWARDS, R. G. - EHLERS, R. J. - EL FASSI, L. - ELAASAR, M. - ELOUADRHIRI, L. The present and future of QCD. In *Nuclear Physics A*, 2024-07-01, 1047, pp. ISSN 03759474. Dostupné na: <https://doi.org/10.1016/j.nuclphysa.2024.122874>, Registrované v: SCOPUS
4. [1.2] BAILHACHE, Raphaëlle. Electromagnetic probes in heavy-ion collisions. In *EPJ Web of Conferences*, 2024-06-26, 296, pp. ISSN 21016275. Dostupné na: <https://doi.org/10.1051/epjconf/202429601022>, Registrované v: SCOPUS
5. [1.2] BECKER, Marten. $\Sigma 0$ reconstruction in Ag+Ag collisions at 1.58 AGeV with the HADES experiment. In *EPJ Web of Conferences*, 2024-06-26, 296, pp. ISSN 21016275. Dostupné na: <https://doi.org/10.1051/epjconf/202429612002>, Registrované v: SCOPUS
6. [1.2] BLUME, Christoph. THE QCD PHASE DIAGRAM AT HIGH DENSITIES: AN EXPERIMENTAL OVERVIEW. In *Acta Physica Polonica B*, 2024-01-01, 55, 5, pp. ISSN 05874254. Dostupné na: <https://doi.org/10.5506/APhysPolB.55.5-A3>, Registrované v: SCOPUS
7. [1.2] CHEN, Jin Hui - DONG, Xin - HE, Xiong Hong - HUANG, Huan Zhong - LIU, Feng - LUO, Xiao Feng - MA, Yu Gang - RUAN, Li Juan - SHAO, Ming - SHI, Shu Su - SUN, Xu - TANG, Ai Hong - TANG, Ze Bo - WANG, Fu Qiang - WANG, Hai - WANG, Yi - XIAO, Zhi Gang - XIE, Guan Nan - XU, Nu - XU, Qing Hua - XU, Zhang Bu - YANG, Chi - YANG, Shuai - ZHA, Wang Mei - ZHANG, Ya Peng - ZHANG, Yi Fei - ZHAO, Jie - ZHU, Xiang Lei. Properties of the QCD matter: review of selected results from the relativistic heavy ion collider beam energy scan (RHIC BES) program. In *Nuclear Science and Techniques*, 2024-12-01, 35, 12, pp. ISSN 10018042. Dostupné na: <https://doi.org/10.1007/s41365-024-01591-2>, Registrované v: SCOPUS
8. [1.2] CHURCHILL, Jessica - DU, Lipei - GALE, Charles - JACKSON, Greg - JEON, Sangyong. Dilepton production at next-to-leading order and intermediate invariant-mass observables. In *Physical Review C*, 2024-04-01, 109, 4, pp. ISSN 24699985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.044915>, Registrované v: SCOPUS
9. [1.2] CHURCHILL, Jessica - DU, Lipei - GALE, Charles - JACKSON, Greg - JEON, Sangyong. Virtual Photons Shed Light on the Early Temperature of Dense QCD Matter. In *Physical Review Letters*, 2024-04-26, 132, 17, pp. ISSN 00319007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.172301>, Registrované v: SCOPUS

10. [1.2] CIEPAL, Izabela. *Studies of Time-like Electromagnetic Structure of Baryons with HADES*. In *EPJ Web of Conferences*, 2024-02-16, 291, pp. ISSN 21016275. Dostupné na: <https://doi.org/10.1051/epjconf/202429101011>, Registrované v: SCOPUS
11. [1.2] DANHONI, Isabella - MOORE, Guy D. *Hot and dense QCD shear viscosity at (almost) NLO*. In *Journal of High Energy Physics*, 2024-09-01, 2024, 9, pp. Dostupné na: [https://doi.org/10.1007/JHEP09\(2024\)075](https://doi.org/10.1007/JHEP09(2024)075), Registrované v: SCOPUS
12. [1.2] HAN, Yiding. *Thermal dielectron measurements in Au+Au collisions at $\sqrt{s_{NN}} = 7.7, 14.6$, and 19.6 GeV with the STAR experiment*. In *EPJ Web of Conferences*, 2024-06-26, 296, pp. ISSN 21016275. Dostupné na: <https://doi.org/10.1051/epjconf/202429607004>, Registrované v: SCOPUS
13. [1.2] JORGE, Adrian William Romero - BRATKOVSKAYA, Elena - SONG, Taesoo - SAGUNSKI, Laura. *Exploring Dark Photon Production and Kinetic Mixing Constraints in Heavy-Ion Collisions*. In *Astronomische Nachrichten*, 2024-01-01, pp. ISSN 00046337. Dostupné na: <https://doi.org/10.1002/asna.20240132>, Registrované v: SCOPUS
14. [1.2] KALWEIT, A. *Ultra-relativistic nuclear collisions*. In *Proceedings of Science*, 2024-03-21, 449, pp., Registrované v: SCOPUS
15. [1.2] KUMAR, Rajesh - DEXHEIMER, Veronica - JAHAN, Johannes - NORONHA, Jorge - NORONHA-HOSTLER, Jacquelyn - RATTI, Claudia - YUNES, Nico - NAVA ACUNA, Angel Rodrigo - ALFORD, Mark - ANIK, Mahmudul Hasan - CHATTERJEE, Debarati - CHATZIOANNOU, Katerina - CHEN, Hsin Yu - CLEVINGER, Alexander - CONDE, Carlos - CRUZ-CAMACHO, Nikolas - DORE, Travis - DRISCHLER, Christian - ELFNER, Hannah - ESSICK, Reed - FRIEDENBERG, David - GHOSH, Suprovo - GREFA, Joaquin - HAAS, Roland - HABER, Alexander - HAMMELMANN, Jan - HARRIS, Steven - HASTER, Carl Johan - HATSUDA, Tetsuo - HIPPERT, Mauricio - HIRAYAMA, Renan - HOLT, Jeremy W. - KAHANGIRWE, Micheal - KARTHEIN, Jamie - KOJO, Toru - LANDRY, Philippe - LIN, Zidu - LUZUM, Matthew - MANNING, Timothy Andrew - SALINAS SAN MARTIN, Jordi - MILLER, Cole - MOST, Elias Roland - MROCZEK, Debora - MURONGA, Azwinndini - PATINO, Nicolas - PETERSON, Jeffrey - PLUMBERG, Christopher - PRICE, Damien - PROVIDENCIA, Constanca - ROUGEMONT, Romulo - ROY, Satyajit - SHAH, Hitansh - SHAPIRO, Stuart - STEINER, Andrew W. - STRICKLAND, Michael - TAN, Hung - TOGASHI, Hajime - PORTILLO VAZQUEZ, Israel - WEN, Pengsheng - ZHANG, Ziyuan. *Theoretical and experimental constraints for the equation of state of dense and hot matter*. In *Living Reviews in Relativity*, 2024-12-01, 27, 1, pp. ISSN 23673613. Dostupné na: <https://doi.org/10.1007/s41114-024-00049-6>, Registrované v: SCOPUS
16. [1.2] KUMMER, C. - GALLMEISTER, K. - VON SMEKAL, L. *Medium modification of pion production in low-energy Au+Au collisions*. In *Physical Review C*, 2024-05-01, 109, 5, pp. ISSN 24699985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.054901>, Registrované v: SCOPUS
17. [1.2] LU, Yi - GAO, Fei - FU, Baochi - SONG, Huichao - LIU, Yu Xin. *Constructing the equation of state of QCD in a functional QCD based scheme*. In *Physical Review D*, 2024-06-01, 109, 11, pp. ISSN 24700010. Dostupné na: <https://doi.org/10.1103/PhysRevD.109.114031>, Registrované v: SCOPUS
18. [1.2] PISARSKI, Robert D. - RENNECKE, Fabian. *Conjectures about the Chiral Phase Transition in QCD from Anomalous Multi-Instanton Interactions*. In *Physical Review Letters*, 2024-06-21, 132, 25, pp. ISSN 00319007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.251903>, Registrované v: SCOPUS

19. [1.2] REED, Rosi. STAR Overview. In *EPJ Web of Conferences*, 2024-06-26, 296, pp. ISSN 21016275. Dostupné na: <https://doi.org/10.1051/epjconf/202429601005>, Registrované v: SCOPUS
20. [1.2] ROUGEMONT, Romulo - GREFA, Joaquin - HIPPERT, Mauricio - NORONHA, Jorge - NORONHA-HOSTLER, Jacquelyn - PORTILLO, Israel - RATTI, Claudia. Hot QCD phase diagram from holographic Einstein–Maxwell–Dilaton models. In *Progress in Particle and Nuclear Physics*, 2024-02-01, 135, pp. ISSN 01466410. Dostupné na: <https://doi.org/10.1016/j.pnpnp.2023.104093>, Registrované v: SCOPUS
21. [1.2] SCHILD, Niklas. Characterising the hot and dense fireball with virtual photons at HADES. In *Proceedings of Science*, 2024-02-16, 438, pp., Registrované v: SCOPUS
22. [1.2] SCOMPARIN, Enrico. Hard and electromagnetic probes: plans for future measurements at the CERN SPS. In *Proceedings of Science*, 2024-02-16, 438, pp., Registrované v: SCOPUS
23. [1.2] SCOMPARIN, Enrico. Hard and electromagnetic probes: plans for future measurements at the CERN SPS. In *Proceedings of Science*, 2024-02-16, 438, pp., Registrované v: SCOPUS
24. [1.2] SECK, Florian - FRIMAN, Bengt - GALATYUK, Tetyana - VAN HEES, Hendrik - SPERANZA, Enrico - RAPP, Ralf - WAMBACH, Jochen. Understanding the properties of the fireball with the polarization signature of thermal dileptons. In *EPJ Web of Conferences*, 2024-06-26, 296, pp. ISSN 21016275. Dostupné na: <https://doi.org/10.1051/epjconf/202429607009>, Registrované v: SCOPUS
25. [1.2] SORENSEN, Agnieszka - AGARWAL, Kshitij - BROWN, Kyle W. - CHAJĘCKI, Zbigniew - DANIELEWICZ, Paweł - DRISCHLER, Christian - GANDOLFI, Stefano - HOLT, Jeremy W. - KAMINSKI, Matthias - KO, Che Ming - KUMAR, Rohit - LI, Bao An - LYNCH, William G. - MCINTOSH, Alan B. - NEWTON, William G. - PRATT, Scott - SAVCHUK, Oleh - STEFANIAK, Maria - TEWS, Ingo - TSANG, Man Yee Betty - VOGT, Ramona - WOLTER, Hermann - ZBROSZCZYK, Hanna - ABBASI, Navid - AICHELIN, Jörg - ANDRONIC, Anton - BASS, Steffen A. - BECATTINI, Francesco - BLASCHKE, David - BLEICHER, Marcus - BLUME, Christoph - BRATKOVSKAYA, Elena - BROWN, B. Alex - BROWN, David A. - CAMAIANI, Alberto - CASINI, Giovanni - CHATZIOANNOU, Katerina - CHBIHI, Abdelouahad - COLONNA, Maria - COZMA, Mircea Dan - DEXHEIMER, Veronica - DONG, Xin - DORE, Travis - DU, Lipei - DUEÑAS, José A. - ELFNER, Hannah - FLORKOWSKI, Wojciech - FUJIMOTO, Yuki - FURNSTAHL, Richard J. - GADE, Alexandra - GALATYUK, Tetyana - GALE, Charles - GEURTS, Frank - GROZDANOV, Sašo - HAGEL, Kris - HARRIS, Steven P. - HAXTON, Wick - HEINZ, Ulrich - HELLER, Michal P. - HEN, Or - HERGERT, Heiko - HERRMANN, Norbert - HUANG, Huan Zhong - HUANG, Xu Guang - IKENO, Natsumi - INGHIRAMI, Gabriele - JANKOWSKI, Jakub - JIA, Jiangyong - JIMÉNEZ, José C. - KAPUSTA, Joseph - KARDAN, Behruz - KARPENKO, Iurii - KEANE, Declan - KHARZEEV, Dmitri - KUGLER, Andrej - LE FÈVRE, Arnaud - LEE, Dean - LIU, Hong - LISA, Michael A. - LLOPE, William J. - LOMBARDO, Ivano - LORENZ, Manuel - MARCHI, Tommaso - MCLERRAN, Larry - MOSEL, Ulrich - MOTORNENKO, Anton - MÜLLER, Berndt - NAPOLITANI, Paolo - NATOWITZ, Joseph B. - NAZAREWICZ, Witold - NORONHA, Jorge - NORONHA-HOSTLER, Jacquelyn - ODYNIEC, Grażyna - PAKONSTANTINO, Panagiota - PAULÍNYOVÁ, Zuzana - PIEKAREWICZ, Jorge - PISARSKI, Robert D. - PLUMBERG, Christopher - PRAKASH, Madappa - RANDRUP, Jørgen. Dense nuclear matter equation of state from heavy-ion collisions. In *Progress in Particle and Nuclear*

Physics, 2024-01-01, 134, pp. ISSN 01466410. Dostupné na:

<https://doi.org/10.1016/j.ppnp.2023.104080>, Registrované v: SCOPUS

26. [1.2] STEFANIAK, Maria. Proton-cluster femtoscopy with the HADES experiment. In EPJ Web of Conferences, 2024-06-26, 296, pp. ISSN 21016275. Dostupné na: <https://doi.org/10.1051/epjconf/202429602001>, Registrované v: SCOPUS

27. [1.2] WAN, Zi Yan - LU, Yi - GAO, Fei - LIU, Yu Xin. Lee–Yang edge singularities in QCD via the Dyson–Schwinger equations. In European Physical Journal C, 2024-09-01, 84, 9, pp. ISSN 14346044. Dostupné na:

<https://doi.org/10.1140/epjc/s10052-024-13254-y>, Registrované v: SCOPUS

28. [1.2] YAO, Nanxi - SORENSEN, Agnieszka - DEXHEIMER, Veronica - NORONHA-HOSTLER, Jacquelyn. Structure in the speed of sound: From neutron stars to heavy-ion collisions. In Physical Review C, 2024-06-01, 109, 6, pp. ISSN 24699985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.065803>, Registrované v: SCOPUS

29. [1.2] YASSINE, Rayane Abou. Dilepton production in proton-proton reaction at 4.5 GeV with the HADES spectrometer. In EPJ Web of Conferences, 2024-02-16, 291, pp. ISSN 21016275. Dostupné na:

<https://doi.org/10.1051/epjconf/202429102010>, Registrované v: SCOPUS

ADCA09

ADAMCZEWSKI-MUSCH, J. - ARNOLD, O. - BEHNKE, C. - BELOUNNAS, A. - BELYAEV, A. - FILIP, Peter - HLAVÁČ, Stanislav. Identical pion intensity interferometry in central Au plus Au collisions at 1.23A GeV. In Physics Letters B, 2019, vol. 795, p.446-451. (2018: 4.162 - IF, Q2 - JCR, 1.806 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2019.06.047>

Citácie:

1. [1.1] LUONG, V.B. Identical Pion Interferometry from Au plus Au Collisions at $\sqrt{s_{NN}}=3, 3.2, 3.5$, and 3.9 GeV in the STAR Experiment at RHIC. In PHYSICS OF PARTICLES AND NUCLEI, 2024, vol. 55, no. 4, pp.822-826., Registrované v: WOS

2. [1.2] KUMAR, Rajesh - DEXHEIMER, Veronica - JAHAN, Johannes - NORONHA, Jorge - NORONHA-HOSTLER, Jacquelyn - RATTI, Claudia - YUNES, Nico - NAVA ACUNA, Angel Rodrigo - ALFORD, Mark - ANIK, Mahmudul Hasan - CHATTERJEE, Debarati - CHATZIOANNOU, Katerina - CHEN, Hsin Yu - CLEVINGER, Alexander - CONDE, Carlos - CRUZ-CAMACHO, Nikolas - DORE, Travis - DRISCHLER, Christian - ELFNER, Hannah - ESSICK, Reed - FRIEDENBERG, David - GHOSH, Suprovo - GREFA, Joaquin - HAAS, Roland - HABER, Alexander - HAMMELMANN, Jan - HARRIS, Steven - HASTER, Carl Johan - HATSUDA, Tetsuo - HIPPERT, Mauricio - HIRAYAMA, Renan - HOLT, Jeremy W. - KAHANGIRWE, Micheal - KARTHEIN, Jamie - KOJO, Toru - LANDRY, Philippe - LIN, Zidu - LUZUM, Matthew - MANNING, Timothy Andrew - SALINAS SAN MARTIN, Jordi - MILLER, Cole - MOST, Elias Roland - MROCZEK, Debora - MURONGA, Azwinndini - PATINO, Nicolas - PETERSON, Jeffrey - PLUMBERG, Christopher - PRICE, Damien - PROVIDENCIA, Constanca - ROUGEMONT, Romulo - ROY, Satyajit - SHAH, Hitansh - SHAPIRO, Stuart - STEINER, Andrew W. - STRICKLAND, Michael - TAN, Hung - TOGASHI, Hajime - PORTILLO VAZQUEZ, Israel - WEN, Pengsheng - ZHANG, Ziyuan. Theoretical and experimental constraints for the equation of state of dense and hot matter. In Living Reviews in Relativity, 2024-12-01, 27, 1, pp. ISSN 23673613. Dostupné na: <https://doi.org/10.1007/s41114-024-00049-6>, Registrované v: SCOPUS

ADCA10

ADAMCZEWSKI-MUSCH, J. - ARNOLD, O. - BEHNKE, C. - BELOUNNAS, A. -

BELYAEV, A. - FILIP, Peter - HLAVÁČ, Stanislav. Directed, Elliptic, and Higher Order Flow Harmonics of Protons, Deuterons, and Tritons in Au plus Au Collisions at root s(NN)=2.4 GeV. In Physical Review Letters, 2020, vol. 125, no. 26, 262301. (2019: 8.385 - IF, Q1 - JCR, 3.588 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.125.262301>

Citácie:

1. [1.1] AUMANN, T. - BERTULANI, C.A. - DUER, M. - et al. Nuclear structure opportunities with GeV radioactive beams at FAIR. In PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES, 2024, vol. 382, no. 2275., Registrované v: WOS
2. [1.2] ABDULHAMID, M. I. - ABOONA, B. E. - ADAM, J. - ADAMCZYK, L. - ADAMS, J. R. - AGGARWAL, I. - AGGARWAL, M. M. - AHAMMED, Z. - ASCHENAUER, E. C. - ASLAM, S. - ATCHISON, J. - BAIRATHI, V. - CAP, J. G. Ball - BARISH, K. - BELLWIED, R. - BHAGAT, P. - BHASIN, A. - BHATTA, S. - BHOSALE, S. R. - BIELCIK, J. - BIELCIKOVA, J. - BRANDENBURG, J. D. - BROODO, C. - CAI, X. Z. - CAINES, H. - SÁNCHEZ, M. Calderón De La Barca - CEBRA, D. - CESKA, J. - CHAKABERIA, I. - CHALOUKPA, P. - CHAN, B. K. - CHANG, Z. - CHATTERJEE, A. - CHEN, D. - CHEN, J. - CHEN, J. H. - CHEN, Z. - CHENG, J. - CHENG, Y. - CHOUDHURY, S. - CHRISTIE, W. - CHU, X. - CRAWFORD, H. J. - CSANÁD, M. - DALE-GAU, G. - DAS, A. - DEPPNER, I. M. - DHAMIJA, A. - DIXIT, P. - DONG, X. - DRACHENBERG, J. L. - DUCKWORTH, E. - DUNLOP, J. C. - ENGELAGE, J. - EPPLEY, G. - ESUMI, S. - EVDOKIMOV, O. - EYSER, O. - FATEMI, R. - FAZIO, S. - FENG, C. J. - FENG, Y. - FINCH, E. - FISYAK, Y. - FLOR, F. A. - FU, C. - GAGLIARDI, C. A. - GALATYUK, T. - GAO, T. - GEURTS, F. - GHIMIRE, N. - GIBSON, A. - GOPAL, K. - GOU, X. - GROSnick, D. - GUPTA, A. - GURYN, W. - HAMED, A. - HAN, Y. - HARABASZ, S. - HARASTY, M. D. - HARRIS, J. W. - HARRISON-SMITH, H. - HE, W. - HE, X. H. - HE, Y. - HERRMANN, N. - HOLUB, L. - HU, C. - HU, Q. - HU, Y. - HUANG, H. - HUANG, H. Z. - HUANG, S. L. - HUANG, T. - HUANG, X. - HUANG, Y. - HUMANIC, T. J. - ISSHIKI, M. Reaction plane correlated triangular flow in Au+Au collisions at sNN =3 GeV. In Physical Review C, 2024-04-01, 109, 4, pp. ISSN 24699985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.044914>, Registrované v: SCOPUS
3. [1.2] ACHARYA, S. - ADAMOVIĆ, D. - AGLIERI RINELLA, G. - AGNELLO, M. - AGRAWAL, N. - AHAMMED, Z. - AHMAD, S. - AHN, S. U. - AHUJA, I. - AKINDINOV, A. - AL-TURANY, M. - ALEKSANDROV, D. - ALESSANDRO, B. - ALFANDA, H. M. - ALFARO MOLINA, R. - ALI, B. - ALICI, A. - ALIZADEHVANDCHALI, N. - ALKIN, A. - ALME, J. - ALOCCO, G. - ALT, T. - ALTAMURA, A. R. - ALTSYBEEV, I. - ALVARADO, J. R. - ANAAM, M. N. - ANDREI, C. - ANDREOU, N. - ANDRONIC, A. - ANDRONOV, E. - ANGUELOV, V. - ANTINORI, F. - ANTONIOLI, P. - APADULA, N. - APHECETCHE, L. - APPELSHÄUSER, H. - ARATA, C. - ARCELLI, S. - ARESTI, M. - ARNALDI, R. - ARNEIRO, J. G.M.C.A. - ARSENE, I. C. - ARSLANDOK, M. - AUGUSTINUS, A. - AVERBECK, R. - AZMI, M. D. - BABA, H. - BADALÀ, A. - BAE, J. - BAEK, Y. W. - BAI, X. - BAILHACHE, R. - BAILUNG, Y. - BALA, R. - BALBINO, A. - BALDISSERI, A. - BALIS, B. - BANERJEE, D. - BANOO, Z. - BARILE, F. - BARIOGLIO, L. - BARLOU, M. - BARMAN, B. - BARNAFÖLDI, G. G. - BARNBY, L. S. - BARREAU, E. - BARRET, V. - BARRETO, L. - BARTELS, C. - BARTH, K. - BARTSCH, E. - BASTID, N. - BASU, S. - BATIGNE, G. - BATTISTINI, D. - BATYUNYA, B. - BAURI, D. - BAZO ALBA, J. L. - BEARDEN,

I. G. - BEATTIE, C. - BECHT, P. - BEHERA, D. - BELIKOV, I. - BELL
 HECHAVARRIA, A. D.C. - BELLINI, F. - BELLWIED, R. - BELOKUROVA, S. -
 BELTRAN, L. G.E. - BELTRAN, Y. A.V. - BENCEDI, G. - BEOLE, S. -
 BERDNIKOV, Y. - BERDNIKOVA, A. - BERGMANN, L. - BESOIU, M. G. -
 BETEV, L. - BHADURI, P. P. - BHASIN, A. - BHAT, M. A. - BHATTACHARJEE,
 B. Measurement of (anti)alpha production in central Pb–Pb collisions at
 $\sqrt{s_{NN}}=5.02$ TeV. In *Physics Letters Section B Nuclear Elementary Particle and
 High Energy Physics*, 2024-11-01, 858, pp. ISSN 03702693. Dostupné na:
<https://doi.org/10.1016/j.physletb.2024.138943>, Registrované v: SCOPUS

4. [1.2] BHAT, Towseef - FAROOQ MIR, M. - BAIRATHI, Vipul - BHAT, Waseem -
 KABANA, Sonia - BHAT, Shabir. Collision energy dependence of elliptic flow of
 identified hadrons in heavy-ion collisions using the PHSD model. In *Physics
 Letters Section B Nuclear Elementary Particle and High Energy Physics*, 2024-
 12-01, 859, pp. ISSN 03702693. Dostupné na:
<https://doi.org/10.1016/j.physletb.2024.139103>, Registrované v: SCOPUS

5. [1.2] BLUME, Christoph. THE QCD PHASE DIAGRAM AT HIGH
 DENSITIES: AN EXPERIMENTAL OVERVIEW. In *Acta Physica Polonica B*,
 2024-01-01, 55, 5, pp. ISSN 05874254. Dostupné na:
<https://doi.org/10.5506/APhysPolB.55.5-A3>, Registrované v: SCOPUS

6. [1.2] BOCHARNIKOV, V. - DERKACH, D. - GOLUBEVA, M. - GUBER, F. -
 MOROZOV, S. - PARFENOV, P. - RATNIKOV, F. Neutron Reconstruction in the
 BM@N Experiment Using Machine Learning. In *Physics of Particles and Nuclei*,
 2024-08-01, 55, 4, pp. 995-999. ISSN 10637796. Dostupné na:
<https://doi.org/10.1134/S1063779624700400>, Registrované v: SCOPUS

7. [1.2] COX, Nicholas - GRUNDLER, Xavier - LI, Bao An. Neural network
 emulation of flow in heavy-ion collisions at intermediate energies. In *Physical
 Review C*, 2024-10-01, 110, 4, pp. ISSN 24699985. Dostupné na:
<https://doi.org/10.1103/PhysRevC.110.044604>, Registrované v: SCOPUS

8. [1.2] COZMA, M. D. Equation of state of nuclear matter from collective flows
 and stopping in intermediate-energy heavy-ion collisions. In *Physical Review C*,
 2024-12-01, 110, 6, pp. ISSN 24699985. Dostupné na:
<https://doi.org/10.1103/PhysRevC.110.064911>, Registrované v: SCOPUS

9. [1.2] DU, Lipei - SORENSEN, Agnieszka - STEPHANOV, Mikhail. The QCD
 phase diagram and Beam Energy Scan physics: A theory overview. In
International Journal of Modern Physics E, 2024-07-01, 33, 7, pp. ISSN
 02183013. Dostupné na: <https://doi.org/10.1142/S021830132430008X>,
 Registrované v: SCOPUS

10. [1.2] GÓES-HIRAYAMA, Renan - ELFNER, Hannah. Distinguishing the
 sources of dielectron anisotropic flow at low beam energies. In *Physical Review
 C*, 2024-12-01, 110, 6, pp. ISSN 24699985. Dostupné na:
<https://doi.org/10.1103/PhysRevC.110.064903>, Registrované v: SCOPUS

11. [1.2] KUMAR, Rajesh - DEXHEIMER, Veronica - JAHAN, Johannes -
 NORONHA, Jorge - NORONHA-HOSTLER, Jacquelyn - RATTI, Claudia -
 YUNES, Nico - NAVA ACUNA, Angel Rodrigo - ALFORD, Mark - ANIK,
 Mahmudul Hasan - CHATTERJEE, Debarati - CHATZIOANNOU, Katerina -
 CHEN, Hsin Yu - CLEVINGER, Alexander - CONDE, Carlos - CRUZ-
 CAMACHO, Nikolas - DORE, Travis - DRISCHLER, Christian - ELFNER,
 Hannah - ESSICK, Reed - FRIEDENBERG, David - GHOSH, Suprovo - GREFA,
 Joaquin - HAAS, Roland - HABER, Alexander - HAMMELMANN, Jan - HARRIS,
 Steven - HASTER, Carl Johan - HATSUDA, Tetsuo - HIPPERT, Mauricio -
 HIRAYAMA, Renan - HOLT, Jeremy W. - KAHANGIRWE, Micheal - KARTHEIN,
 Jamie - KOJO, Toru - LANDRY, Philippe - LIN, Zidu - LUZUM, Matthew -

MANNING, Timothy Andrew - SALINAS SAN MARTIN, Jordi - MILLER, Cole - MOST, Elias Roland - MROCZEK, Debora - MURONGA, Azwinndini - PATINO, Nicolas - PETERSON, Jeffrey - PLUMBERG, Christopher - PRICE, Damien - PROVIDENCIA, Constanca - ROUGEMONT, Romulo - ROY, Satyajit - SHAH, Hitansh - SHAPIRO, Stuart - STEINER, Andrew W. - STRICKLAND, Michael - TAN, Hung - TOGASHI, Hajime - PORTILLO VAZQUEZ, Israel - WEN, Pengsheng - ZHANG, Ziyuan. Theoretical and experimental constraints for the equation of state of dense and hot matter. In *Living Reviews in Relativity*, 2024-12-01, 27, 1, pp. ISSN 23673613. Dostupné na: <https://doi.org/10.1007/s41114-024-00049-6>, Registrované v: SCOPUS

12. [1.2] LIU, Xiaoyu. First order event plane correlated directed and triangular flow in Au+Au collisions from BES-II at STAR. In *EPJ Web of Conferences*, 2024-06-26, 296, pp. ISSN 21016275. Dostupné na: <https://doi.org/10.1051/epjconf/202429605013>, Registrované v: SCOPUS

13. [1.2] MAMAEV, M. On the Scaling Properties of the Directed Flow of Protons in Au + Au and Ag + Ag Collisions at the Beam Energies of 1.23 and 1.58 A GeV. In *Physics of Particles and Nuclei*, 2024-08-01, 55, 4, pp. 832-835. ISSN 10637796. Dostupné na: <https://doi.org/10.1134/S1063779624700308>, Registrované v: SCOPUS

14. [1.2] PARFENOV, P. - MAMAEV, M. - TARANENKO, A. Anisotropic Flow Measurements of Identified Hadrons with Fixed-Target Mode of MPD Detector at NICA. In *Physics of Particles and Nuclei*, 2024-08-01, 55, 4, pp. 853-858. ISSN 10637796. Dostupné na: <https://doi.org/10.1134/S1063779624700369>, Registrované v: SCOPUS

15. [1.2] REICHERT, Tom - STEINHEIMER, Jan - BLEICHER, Marcus. 3-dimensional flow analysis: A novel tool to study the collision geometry and the equation-of-state. In *Nuclear Physics A*, 2024-01-01, 1041, pp. ISSN 03759474. Dostupné na: <https://doi.org/10.1016/j.nuclphysa.2023.122790>, Registrované v: SCOPUS

16. [1.2] SAHOO, Aswini Kumar - HE, Xionghong - NARA, Yasushi - SINGHA, Subhash. Bulk properties of the system formed in U+ U collisions at sNN = 2.12 GeV using the jet AA microscopic transport model. In *Physical Review C*, 2024-05-01, 109, 5, pp. ISSN 24699985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.054902>, Registrované v: SCOPUS

17. [1.2] SHARMA, Sharang Rav. First-Order Event Plane Correlated Directed and Triangular Flow from Fixed-Target Energies at RHIC-STAR. In *Universe*, 2024-03-01, 10, 3, pp. Dostupné na: <https://doi.org/10.3390/universe10030118>, Registrované v: SCOPUS

18. [1.2] SORENSEN, Agnieszka - AGARWAL, Kshitij - BROWN, Kyle W. - CHAJĘCKI, Zbigniew - DANIELEWICZ, Paweł - DRISCHLER, Christian - GANDOLFI, Stefano - HOLT, Jeremy W. - KAMINSKI, Matthias - KO, Che Ming - KUMAR, Rohit - LI, Bao An - LYNCH, William G. - MCINTOSH, Alan B. - NEWTON, William G. - PRATT, Scott - SAVCHUK, Oleh - STEFANIAK, Maria - TEWS, Ingo - TSANG, Man Yee Betty - VOGT, Ramona - WOLTER, Hermann - ZBROSZCZYK, Hanna - ABBASI, Navid - AICHELIN, Jörg - ANDRONIC, Anton - BASS, Steffen A. - BECATTINI, Francesco - BLASCHKE, David - BLEICHER, Marcus - BLUME, Christoph - BRATKOVSKAYA, Elena - BROWN, B. Alex - BROWN, David A. - CAMAIANI, Alberto - CASINI, Giovanni - CHATZIOANNOU, Katerina - CHBIHI, Abdelouahad - COLONNA, Maria - COZMA, Mircea Dan - DEXHEIMER, Veronica - DONG, Xin - DORE, Travis - DU, Lipei - DUEÑAS, José A. - ELFNER, Hannah - FLORKOWSKI, Wojciech - FUJIMOTO, Yuki - FURNSTAHL, Richard J. - GADE, Alexandra - GALATYUK,

Tetyana - GALE, Charles - GEURTS, Frank - GROZDANOV, Sašo - HAGEL, Kris - HARRIS, Steven P. - HAXTON, Wick - HEINZ, Ulrich - HELLER, Michal P. - HEN, Or - HERGERT, Heiko - HERRMANN, Norbert - HUANG, Huan Zhong - HUANG, Xu Guang - IKENO, Natsumi - INGHIRAMI, Gabriele - JANKOWSKI, Jakub - JIA, Jiangyong - JIMÉNEZ, José C. - KAPUSTA, Joseph - KARDAN, Behruz - KARPENKO, Iurii - KEANE, Declan - KHARZEEV, Dmitri - KUGLER, Andrej - LE FÈVRE, Arnaud - LEE, Dean - LIU, Hong - LISA, Michael A. - LLOPE, William J. - LOMBARDO, Ivano - LORENZ, Manuel - MARCHI, Tommaso - MCLERRAN, Larry - MOSEL, Ulrich - MOTORNENKO, Anton - MÜLLER, Berndt - NAPOLITANI, Paolo - NATOWITZ, Joseph B. - NAZAREWICZ, Witold - NORONHA, Jorge - NORONHA-HOSTLER, Jacquelyn - ODYNYEC, Grażyna - PAPA-KONSTANTINO, Panagiota - PAULÍNYOVÁ, Zuzana - PIEKAREWICZ, Jorge - PISARSKI, Robert D. - PLUMBERG, Christopher - PRAKASH, Madappa - RANDRUP, Jørgen. Dense nuclear matter equation of state from heavy-ion collisions. In *Progress in Particle and Nuclear Physics*, 2024-01-01, 134, pp. ISSN 01466410. Dostupné na:

<https://doi.org/10.1016/j.ppnp.2023.104080>, Registrované v: SCOPUS

19. [1.2] TARIQ, Junaid - ASHRAF, M. U. - NIGMATKULOV, Grigory. Estimation of kinetic temperature and radial flow velocity using identified hadrons and light (anti-)nuclei produced in relativistic heavy-ion collisions at energies available at BNL RHIC and CERN LHC. In *Physical Review C*, 2024-07-01, 110, 1, pp. ISSN 24699985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.110.014903>, Registrované v: SCOPUS

20. [1.2] TSANG, Chun Yuen - TSANG, Man Yee Betty - LYNCH, William G. - KUMAR, Rohit - HOROWITZ, Charles J. Determination of the equation of state from nuclear experiments and neutron star observations. In *Nature Astronomy*, 2024-03-01, 8, 3, pp. 328-336. Dostupné na: <https://doi.org/10.1038/s41550-023-02161-z>, Registrované v: SCOPUS

21. [1.2] WANG, Si Pei - WANG, Rui - YE, Jun Ting - CHEN, Lie Wen. Extended Skyrme effective interactions for transport models and neutron stars. In *Physical Review C*, 2024-05-01, 109, 5, pp. ISSN 24699985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.109.054623>, Registrované v: SCOPUS

22. [1.2] WANG, Yongjia - GAO, Bo - WEI, Guojun - LI, Pengcheng - LI, Qingfeng. Time evolution of elliptic flow and medium density in heavy-ion collisions at intermediate energies. In *Physical Review C*, 2024-10-01, 110, 4, pp. ISSN 24699985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.044606>, Registrované v: SCOPUS

23. [1.2] WEI, Gao Feng - ZHAO, Yu Liang. Kaon production in the HADES experiment in Au+Au collisions at $\sqrt{s_{NN}}=2.4$ GeV. In *Physical Review C*, 2024-11-01, 110, 5, pp. ISSN 24699985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.110.054615>, Registrované v: SCOPUS

ADCA11

ADAMCZEWSKI-MUSCH, J. - ARNOLD, O. - BEHNKE, C. - BELOUNNAS, A. - BERGER-CHEN, J. C. - FILIP, Peter - HLAVÁČ, Stanislav. Proton, deuteron and triton flow measurements in Au plus Au collisions at $\sqrt{s_{NN}}=2.4$ GeV. In *European Physical Journal A*, 2023, vol. 59, no. 4, art. no. 80. (2022: 2.6 - IF, Q2 - JCR, 0.969 - SJR, Q2 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-023-00936-6>
Citácie:

1. [1.1] AUMANN, T. - BERTULANI, C.A. - DUER, M. - et al. Nuclear structure opportunities with GeV radioactive beams at FAIR. In *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES*arrow, 2024, vol. 382, art. no. 2275.,

Registrované v: WOS

2. [1.1] TSANG, C.Y. - TSANG, M.B. - LYNCH, W.G.- et al. Determination of the equation of state from nuclear experiments and neutron star observations. In *NATURE ASTRONOMY*, 2024, vol. 8, no. 3, pp. 328-336., Registrované v: WOS

3. [1.2] ACHARYA, S. - ADAMOVIĆ, D. - ADLER, A. - AGLIERI RINELLA, G. - AGNELLO, M. - AGRAWAL, N. - AHAMMED, Z. - AHMAD, S. - AHN, S. U. - AHUJA, I. - AKINDINOV, A. - AL-TURANY, M. - ALEKSANDROV, D. - ALESSANDRO, B. - ALFANDA, H. M. - ALFARO MOLINA, R. - ALI, B. - ALICI, A. - ALIZADEHVANDCHALI, N. - ALKIN, A. - ALME, J. - ALOCCO, G. - ALT, T. - ALTSYBEEV, I. - ALVARADO, J. R. - ANAAM, M. N. - ANDREI, C. - ANDRONIC, A. - ANGUELOV, V. - ANTINORI, F. - ANTONIOLI, P. - APADULA, N. - APHECETCHE, L. - APPELSHÄUSER, H. - ARATA, C. - ARCELLI, S. - ARESTI, M. - ARNALDI, R. - ARSENE, I. C. - ARSLANDOK, M. - AUGUSTINUS, A. - AVERBECK, R. - AZMI, M. D. - BADALÀ, A. - BAE, J. - BAEK, Y. W. - BAI, X. - BAILHACHE, R. - BAILUNG, Y. - BALA, R. - BALBINO, A. - BALDISSERI, A. - BALIS, B. - BANERJEE, D. - BANO, Z. - BARBERA, R. - BARILE, F. - BARIOGLIO, L. - BARLOU, M. - BARNAFÖLDI, G. G. - BARNBY, L. S. - BARRET, V. - BARRETO, L. - BARTELS, C. - BARTH, K. - BARTSCH, E. - BASTID, N. - BASU, S. - BATIGNE, G. - BATTISTINI, D. - BATYUNYA, B. - BAURI, D. - BAZO ALBA, J. L. - BEARDEN, I. G. - BEATTIE, C. - BECHT, P. - BEHERA, D. - BELIKOV, I. - BELL HECHAVARRIA, A. D.C. - BELLINI, F. - BELLWIED, R. - BELOKUROVA, S. - BELYAEV, V. - BENCEDI, G. - BEOLE, S. - BERCUCI, A. - BERDNIKOV, Y. - BERDNIKOVA, A. - BERGMANN, L. - BESOIU, M. G. - BETEV, L. - BHADURI, P. P. - BHASIN, A. - BHAT, M. A. - BHATTACHARJEE, B. - BIANCHI, L. - BIANCHI, N. - BIELČÍK, J. - BIELČÍKOVÁ, J. - BIERNAT, J. The ALICE experiment: a journey through QCD. In *European Physical Journal C*, 2024-08-01, 84, 8, pp. ISSN 14346044.

Dostupné na: <https://doi.org/10.1140/epjc/s10052-024-12935-y>, Registrované v: SCOPUS

4. [1.2] BLUME, Christoph. THE QCD PHASE DIAGRAM AT HIGH DENSITIES: AN EXPERIMENTAL OVERVIEW. In *Acta Physica Polonica B*, 2024-01-01, 55, 5, pp. ISSN 05874254. Dostupné na:

<https://doi.org/10.5506/APhysPolB.55.5-A3>, Registrované v: SCOPUS

5. [1.2] COX, Nicholas - GRUNDLER, Xavier - LI, Bao An. Neural network emulation of flow in heavy-ion collisions at intermediate energies. In *Physical Review C*, 2024-10-01, 110, 4, pp. ISSN 24699985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.110.044604>, Registrované v: SCOPUS

6. [1.2] REICHERT, Tom - STEINHEIMER, Jan - BLEICHER, Marcus. 3-dimensional flow analysis: A novel tool to study the collision geometry and the equation-of-state. In *Nuclear Physics A*, 2024-01-01, 1041, pp. ISSN 03759474.

Dostupné na: <https://doi.org/10.1016/j.nuclphysa.2023.122790>, Registrované v: SCOPUS

7. [1.2] SORENSSEN, Agnieszka - AGARWAL, Kshitij - BROWN, Kyle W. - et al. Dense nuclear matter equation of state from heavy-ion collisions. In *Progress in Particle and Nuclear Physics*, 2024-01-01, 134, pp. ISSN 01466410. Dostupné na: <https://doi.org/10.1016/j.pnpnp.2023.104080>, Registrované v: SCOPUS

8. [1.2] YAO, Nanxi - SORENSSEN, Agnieszka - DEXHEIMER, Veronica - NORONHA-HOSTLER, Jacquelyn. Structure in the speed of sound: From neutron stars to heavy-ion collisions. In *Physical Review C*, 2024-06-01, 109, 6, pp. ISSN 24699985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.065803>,

Registrované v: SCOPUS

E.T. - BEHNKE, C. - HLAVÁČ, Stanislav. Lambda p interaction studied via femtoscopy in p plus Nb reactions at root s(NN)=3.18 GeV. In Physical Review C. Nuclear Physics, 2016, vol. 94, no. 2, art. no. 025201. (2015: 3.146 - IF, Q2 - JCR, 1.993 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.94.025201>

Citácie:

1. [1.1] *BLACKER, Sebastian - KOCHANKOVSKI, Hristijan - BAUSWEIN, Andreas - RAMOS, Angels - TOLOS, Laura. Thermal behavior as indicator for hyperons in binary neutron star merger remnants. In PHYSICAL REVIEW D, 2024, vol. 109, no. 4, art. no. 043015. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.109.043015>, Registrované v: WOS*

2. [1.1] *MIHAYLOV, D. L. - HAIDENBAUER, J. - SARTI, V. Mantovani. Constraining the pA interaction from a combined analysis of scattering data and correlation functions. In PHYSICS LETTERS B, 2024, vol. 850, no., art. no. 138550. ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2024.138550>, Registrované v: WOS*

ADCA13 ADAMCZEWSKI-MUSCH, J. - ARNOLD, O. - ATOMSSA, E.T. - BEHNKE, C. - BELOUNNAS, A. - FILIP, Peter - HLAVÁČ, Stanislav. Delta (1232) Dalitz decay in proton-proton collisions at T=1.25 GeV measured with HADES at GSI. In Physical Review C, 2017, vol. 95, no. 6, art. no. 065205. (2016: 3.820 - IF, Q1 - JCR, 1.936 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.95.065205>

Citácie:

1. [1.1] *MENAPARA, Chandni - RAI, Ajay Kumar. Properties of N, Δ Baryons with Screened Potential. In FEW-BODY SYSTEMS, 2024, vol. 65, no. 1, art. no. 10. ISSN 0177-7963. Dostupné na: <https://doi.org/10.1007/s00601-024-01883-8>, Registrované v: WOS*

2. [1.1] *RAMALHO, G. - PENA, M. T. Electromagnetic transition form factors of baryon resonances. In PROGRESS IN PARTICLE AND NUCLEAR PHYSICS, 2024, vol. 136, no., art. no. 104097. ISSN 0146-6410. Dostupné na: <https://doi.org/10.1016/j.ppnp.2024.104097>, Registrované v: WOS*

ADCA14 ADAMCZEWSKI-MUSCH, J. - ARNOLD, O. - BEHNKE, Joachim - BELOUNNAS, A. - BELYAEV, A. - FILIP, Peter - HLAVÁČ, Stanislav. Proton-number fluctuations ins root S-NN=2.4 GeV Au + Au collisions studied with the High-Acceptance DiElectron Spectrometer (HADES). In Physical Review C, 2020, vol. 102, no. 2, 024914. (2019: 2.988 - IF, Q2 - JCR, 1.270 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.102.024914>

Citácie:

1. [1.1] *ABDUHAMID, M.I. - ABOONA, B.E. - ADAM, J. - et al. Measurements of charged-particle multiplicity dependence of higher-order net-proton cumulants in p+p collisions at √s=200 GeV from STAR at RHIC. In PHYSICS LETTERS B, 2024, vol. 857, art. no. 138966., Registrované v: WOS*

2. [1.1] *ACHENBACH, P. - ADHIKARI, D. - AFANASEV, A. - et al. The present and future of QCD. In NUCLEAR PHYSICS A, 2024, vol. 1047, art. no. 122874., Registrované v: WOS*

3. [1.1] *BAZGIR, A. - RYBCZYNSKI, M. - SHAH, U.A. - et al. Collective behavior in proton number fluctuations seen in √s NN=2.4 GeV Au+Au collisions. In PHYSICS LETTERS B, 2024, vol. 858, art. no. 139085., Registrované v: WOS*

4. [1.1] *Jokela, N; Järvinen, M and Piispa, A. Refining holographic models of the quark-gluon plasma. In PHYSICAL REVIEW D, 2024, vol. 110, no. 12.,*

Registrované v: WOS

5. [1.1] KOCH, V. - VOVCHENKO, V. EXPLORING THE QCD PHASE DIAGRAM WITH FLUCTUATIONS. In ACTA PHYSICA POLONICA B, 2024, vol. 55, no. 4, p. 5-A5, Registrované v: WOS

6. [1.1] KUMAR, R. - DEXHEIMER, V. - JAHAN, J. - et al. Theoretical and experimental constraints for the equation of state of dense and hot matter. In LIVING REVIEWS IN RELATIVITY, 2024, vol. 27, no. 1, pp. 1-115., Registrované v: WOS

7. [1.1] KUZNIETSOV, V.A. - GORENSTEIN, M.I. - KOCH, V. - et al. Coordinate versus momentum cuts and effects of collective flow on critical fluctuations. In PHYSICAL REVIEW C, 2024, vol. 110, no. 1., art. no. 015206., Registrované v: WOS

8. [1.1] LI, J.N. - DU, L.P. - SHI, S.Z. Rapidity scan approach for net-baryon cumulants with a statistical thermal model. In PHYSICAL REVIEW C, 2024, vol. 109, no. 3, art. no. 034906., Registrované v: WOS

9. [1.1] MUKHERJEE, G. - DUTTA, D. - MISHRA, D.K. Conserved number fluctuations under global rotation in a hadron resonance gas model. In EUROPEAN PHYSICAL JOURNAL C, 2024, vol. 84, no. 3, art. no. 258., Registrované v: WOS

10. [1.1] NONAKA, T. Conserved Charge Fluctuations from RHIC BES and FXT. In UNIVERSE, 2024, vol. 10, no. 1, art. no. 49., Registrované v: WOS

11. [1.1] SORENSEN, A. - AGARWAL, K. - BROWN, K.W. - et al. Dense nuclear matter equation of state from heavy-ion collisions. In PROGRESS IN PARTICLE AND NUCLEAR PHYSICS, 2024, vol. 134, art. no. 104080., Registrované v: WOS

12. [1.1] TOUROUX, N. - KITAZAWA, M. - MURASE, K. - et al. Efficient Solver of Relativistic Hydrodynamics with an Implicit Runge-Kutta Method. In PROGRESS OF THEORETICAL AND EXPERIMENTAL PHYSICS, 2024, vol. 2024, no. 6, art. no. 063D01., Registrované v: WOS

13. [1.1] VOVCHENKO, V. Density correlations under global and local charge conservation. In PHYSICAL REVIEW C, 2024, vol. 110, no. 6., Registrované v: WOS

14. [1.1] VOYCHENKO, V. QCD at finite temperature and density: Criticality. In 30TH INTERNATIONAL CONFERENCE ON ULTRA-RELATIVISTIC NUCLEUS-NUCLEUS COLLISIONS, QUARK MATTER 2023, 2024, vol. 296, art. no. 01017., Registrované v: WOS

ADCA15 ADAMCZEWSKI-MUSCH, J. - ARNOLD, O. - BEHNKE, C. - BELOUNNAS, A. - BELYAEV, A. - FILIP, Peter - HLAVÁČ, Stanislav. Correlated pion-proton pair emission off hot and dense QCD matter. In Physics Letters B : Nuclear, Elementary Particle and High-Energy Physics, 2021, vol. 819, 136421. (2020: 4.771 - IF, Q1 - JCR, 2.093 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2021.136421>

Citácie:

1. [1.1] REICHERT, Tom - STEINHEIMER, Jan - VOVCHENKO, Volodymyr - HEROLD, Christoph - LIMPHIRAT, Ayut - BLEICHER, Marcus. The structure of the $f_0(980)$ from system size dependent hadronic resonance ratios in p plus p , p plus Pb , and Pb plus Pb collisions at the LHC. In EUROPEAN PHYSICAL JOURNAL C, 2024, vol. 84, no. 12, art. no. 1301. ISSN 1434-6044. Dostupné na: <https://doi.org/10.1140/epjc/s10052-024-13690-w>, Registrované v: WOS

ADCA16 ADAMUŠČIN, Cyril - BARTOŠ, Erik - DUBNIČKA, Stanislav - DUBNIČKOVÁ, A.Z. Numerical values of the f_F , f_D , and f_S coupling constants in the SU(3) invariant interaction Lagrangian of the vector-meson nonet with $1/2^+$ octet baryons. In

Physical Review C. Nuclear Physics, 2016, vol. 93, no. 5, art. no. 055208. (2015: 3.146 - IF, Q2 - JCR, 1.993 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.93.055208>

Citácie:

1. [1.1] DEV, P. S. Bhupal - DUTTA, Bhaskar - HAN, Tao - KARTHIKEYAN, Aparajitha - KIM, Doojin - KIM, Hyunyong. New physics at a neutron beam dump. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 5, art. no. L051703. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.L051703>, Registrované v: WOS

ADCA17 AGAKICHIEV, G. - AGODI, C. - ALVAREZ-POL, H. - ATKIN, E. - BADURA, E. - HLAVÁČ, Stanislav - TURZO, Ivan. The high-acceptance dielectron spectrometer HADES. In *European Physical Journal A*, 2009, vol. 41, no. 2, p. 243-277. Dostupné na: <https://doi.org/10.1140/epja/i2009-10807-5>

Citácie:

1. [1.1] HOEHNE, Claudia. Status of the CBM experiment at FAIR. In *30TH INTERNATIONAL CONFERENCE ON ULTRA-RELATIVISTIC NUCLEUS-NUCLEUS COLLISIONS, QUARK MATTER 2023*, 2024, vol. 296, no., art. no. 08004. ISSN 2100-014X. Dostupné na:

<https://doi.org/10.1051/epjconf/202429608004>, Registrované v: WOS

2. [1.1] KITTIRATPATTANA, Apiwit - REICHERT, Tom - BUYUKCIZMECI, Nihal - BOTVINA, Alexander - LIMPHIRAT, Ayut - HEROLD, Christoph - STEINHEIMER, Jan - BLEICHER, Marcus. Production of nuclei and hypernuclei in pion-induced reactions near threshold energies. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 4, art. no. 044913. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.044913>, Registrované v: WOS

3. [1.1] MICHEL, J. - GNIAZDOWSKI, T. - GUZMAN, A. - MATEJCEK, F. - MUENTZ, C. - SVINTOZELSKYI, V. - WENDISCH, C. - STROTHA, J. New electronics for the HADES MDC drift chambers. In *JOURNAL OF INSTRUMENTATION*, 2024, vol. 19, no. 2, art. no. C02056. ISSN 1748-0221. Dostupné na: <https://doi.org/10.1088/1748-0221/19/02/C02056>, Registrované v: WOS

4. [1.1] PARSCHAU, Mirco. Reconstruction of hyperons in an inhomogeneous magnetic field with a Kalman Filter based tracking algorithm. In *26TH INTERNATIONAL CONFERENCE ON COMPUTING IN HIGH ENERGY AND NUCLEAR PHYSICS, CHEP 2023*, 2024, vol. 295, no., art. no. 03033. ISSN 2100-014X. Dostupné na: <https://doi.org/10.1051/epjconf/202429503033>, Registrované v: WOS

5. [1.1] QIN, Guang-You. Collective properties and hard probes of quark-gluon plasma. In *CHINESE SCIENCE BULLETIN-CHINESE*, 2024, vol. 69, no. 3, pp. 330-345. ISSN 0023-074X. Dostupné na: <https://doi.org/10.1360/TB-2023-0176>, Registrované v: WOS

6. [1.1] REICHERT, Tom - STEINHEIMER, Jan - BLEICHER, Marcus. 3-dimensional flow analysis: A novel tool to study the collision geometry and the equation-of-state. In *NUCLEAR PHYSICS A*, 2024, vol. 1041, no., art. no. 122790. ISSN 0375-9474. Dostupné na: <https://doi.org/10.1016/j.nuclphysa.2023.122790>, Registrované v: WOS

7. [1.1] SORENSEN, Agnieszka - AGARWAL, Kshitij - BROWN, Kyle W. - CHAJECKI, Zbigniew - DANIELEWICZ, Pawel - DRISCHLER, Christian - GANDOLFI, Stefano - HOLT, Jeremy W. - KAMINSKI, Matthias - KO, Che-Ming - KUMAR, Rohit - LI, Bao-An - LYNCH, William G. - MCINTOSH, Alan B. - NEWTON, William G. - PRATT, Scott - SAVCHUK, Oleh - STEFANIAK, Maria -

TEWS, Ingo - TSANG, ManYee Betty - VOGT, Ramona - WOLTER, Hermann - ZBROSZCZYK, Hanna - ABBASI, Navid - AICHELIN, Joerg - ANDRONIC, Anton - BASS, Steffen A. - BECATTINI, Francesco - BLASCHKE, David - BLEICHER, Marcus - BLUME, Christoph - BRATKOVSKAYA, Elena - BROWN, B. Alex - BROWN, David A. - CAMAIANI, Alberto - CASINI, Giovanni - CHATZIIOANNOU, Katerina - CHBIHI, Abdelouahad - COLONNA, Maria - COZMA, Mircea Dan - DEXHEIMER, Veronica - DONG, Xin - DORE, Travis - DU, Lipei - DUENAS, Jose A. - ELFNER, Hannah - FLORKOWSKI, Wojciech - FUJIMOTO, Yuki - FURNSTAHL, Richard J. - GADE, Alexandra. Dense nuclear matter equation of state from heavy-ion collisions. In *PROGRESS IN PARTICLE AND NUCLEAR PHYSICS*, 2024, vol. 134, no., art. no. 104080. ISSN 0146-6410. Dostupné na: <https://doi.org/10.1016/j.pnpnp.2023.104080>, Registrované v: WOS

8. [1.1] WENDISCH, Christian - MUENTZ, Christian - LOPES, Luis - SCHWAB, Erwin - STROTH, Joachim. Recovery of HADES drift chambers suffering from Malter-like effects. In *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*, 2024, vol. 1064, no., art. no. 169316. ISSN 0168-9002. Dostupné na: <https://doi.org/10.1016/j.nima.2024.169316>, Registrované v: WOS

9. [1.1] YAO, Nanxi - SORENSEN, Agnieszka - DEXHEIMER, Veronica - NORONHA-HOSTLER, Jacquelyn. Structure in the speed of sound: From neutron stars to heavy-ion collisions. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 6, art. no. 065803. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.065803>, Registrované v: WOS

10. [1.1] YASSINE, R. Abou - ADAMCZEWSKI-MUSCH, J. - ARNOLD, O. - ATOMSSA, E. T. - BECKER, M. - BEHNKE, C. - BERGER-CHEN, J. C. - BLANCO, A. - BLUME, C. - BOEHMER, M. - CHLAD, L. - CHUDоба, P. - CIEPAL, I. - DEB, S. - DEVEAUX, C. - DITPERT, D. - DREYER, J. - EPPLE, E. - FABBIIETTI, L. - FONTE, P. - FRANCO, C. - FRIESE, J. - FROEHLICH, I. - FOERTSCH, J. - GALATYUK, T. - GARZON, J. A. - GERNHAEUSER, R. - GREIFENHAGEN, R. - GRUNWALD, M. - GUMBERIDZE, M. - HARABASZ, S. - HEINZ, T. - HENNINO, T. - HOEHNE, C. - HOJEIJ, F. - HOLZMANN, R. - IDZIK, M. - KAEMPFER, B. - KAMPERT, K.H. - KARDAN, B. - KEDYCH, V. - KOENIG, I. - KOENIG, W. - KOHLS, M. - KOLAS, J. - KOLB, B. W. - KORCYL, G. - KORNAKOV, G. - KOTTE, R. - KRUEGER, W. Hadron production and propagation in pion-induced reactions on nuclei. In *EUROPEAN PHYSICAL JOURNAL A*, 2024, vol. 60, no. 7, art. no. 156. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01346-y>, Registrované v: WOS

11. [1.1] YASSINE, R. Abou - ARNOLD, O. - BECKER, M. - BERGMANN, P. - BLANCO, A. - BLUME, C. - BOEHMER, M. - CAROLINO, N. - CHLAD, L. - CHUDоба, P. - CIEPAL, I. - DREYER, J. - ESMail, W. - FABBIIETTI, L. - FONTE, P. - FRIESE, J. - FROEHLICH, I. - GALATYUK, T. - GARZON, J. A. - GRUNWALD, M. - GUMBERIDZE, M. - HARABASZ, S. - HOEHNE, C. - HOJEIJ, F. - HOLZMANN, R. - HUCK, H. - IDZIK, M. - KAEMPFER, B. - KARDAN, B. - KEDYCH, V. - KOENIG, I. - KOENIG, W. - KOHLS, M. - KOLAS, J. - KORCYL, G. - KORNAKOV, G. - KOTTE, R. - KRUEGER, W. - KUGLER, A. - KUNZ, T. - LALIK, R. - LINZ, F. - LOPES, L. - LORENZ, M. - MALIGE, A. - MARKERT, J. - METAG, V. - MICHEL, J. - MOLENDА, A. - MUENTZ, C. Investigation of the Σ SUP0/SUP Production Mechanism in $p(3.5 \text{ GeV})+p$ Collisions. In *EUROPEAN PHYSICAL JOURNAL A*, 2024, vol. 60, no. 1, art. no. 18. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-023-01214-1>, Registrované v: WOS

- ADCA18 AGAKICHIEV, G. - AGODI, C. - ALVAREZ-POL, H. - BALANDA, A. - BERTINI, D. - HLAVÁČ, Stanislav. Dielectron production in C-12+C-12 collisions at 2A GeV with the HADES spectrometer. In Physical Review Letters, 2007, vol. 98, no. 5, art. no. 052302. Dostupné na: <https://doi.org/10.1103/PhysRevLett.98.052302>
Citácie:
1. [1.1] ABRAAMYAN, K.U. - AUSTIN, C. - BAZNAT, M. I. - et al. Observation of Structures at ~ 17 and ~ 38 MeV/c² in the $\gamma\gamma$ Invariant Mass Spectrum in dCu Collisions at a Momentum of 3.8 GeV/c per Nucleon. In PHYSICS OF PARTICLES AND NUCLEI, 2024, vol. 55, no. 4, pp. 868-873., Registrované v: WOS
- ADCA19 ALAM, Shahidul - PETOUKHOFF, Christopher E - JURADO, José P - ALDOSARI, Haya - JIANG, Xinyu - VÁRY, Tomáš - NASSER, Hamza Al - DAHMAN, Amr - ALTHOBAITI, Wejdan - LOPEZ, Sandra P Gonzalez - ALSUFYANI, Wejdan - MÜLLER-BUSCHBAUM, Peter - NÁDAŽDY, Vojtech - HOPPE, Harald - LAQUAI, Frédéric. Influence of thermal annealing on microstructure, energetic landscape and device performance of P3HT:PCBM-based organic solar cells. In Journal of Physics: Energy, 2024, vol. 6, no. 2, art. no. 025013. (2023: 7.0 - IF, Q1 - JCR, 1.661 - SJR, Q1 - SJR). ISSN 2515-7655. Dostupné na: <https://doi.org/10.1088/2515-7655/ad2498>
Citácie:
1. [1.1] UDDIN, Md. Nasir - KARMAKAR, Sumit - KHANAM, Sadia - CHAWDHURY, Nazia. Investigation of photovoltaic properties of poly(3-hexylthiophene): Polynaphthalene-bithiophene heterostructure devices. In OPTICAL MATERIALS, 2024, vol. 157, no., art. no. 116385. ISSN 0925-3467. Dostupné na: <https://doi.org/10.1016/j.optmat.2024.116385>, Registrované v: WOS
2. [1.2] WANG, Wenxuan - ZHANG, Shaoqing - ZHANG, Tao - WANG, Chaoyi - CHEN, Zhihao - CHENG, Shuohan - XIAO, Yang - WANG, Jianqiu - CUI, Yong - HOU, Jianhui. Completely Fused Non-Fullerene Acceptor Enables Efficient Postprocessing-Free Organic Photovoltaics Cells. In Advanced Energy Materials, 2024-01-01, pp. ISSN 16146832. Dostupné na: <https://doi.org/10.1002/aenm.202404482>, Registrované v: SCOPUS
- ADCA20 ALAM, Shahidul** - ALDOSARI, Haya - PETOUKHOFF, Christopher E. - VÁRY, Tomáš - ALTHOBAITI, Wejdan - ALQURASHI, Maryam - TANG, Hua - KHAN, Jafar I. - NÁDAŽDY, Vojtech - MÜLLER-BUSCHBAUM, Peter - WELCH, Gregory C. - LAQUAI, Frédéric. Thermally-Induced Degradation in PM6:Y6-Based Bulk Heterojunction Organic Solar Cells. In Advanced Functional Materials, 2024, vol. 34, no. 6, art. no. 2308076. (2023: 18.5 - IF, Q1 - JCR, 5.496 - SJR, Q1 - SJR). ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202308076>
Citácie:
1. [1.1] FU, Ziwei - FU, Tingzhao - WU, Hao - ZHU, Zhihong - ZHANG, Jianfa. Reconfigurable binary diffractive optical neural network based on chalcogenide phase change material Ge₂Sb₂Se₄Te₁. In OPTICS EXPRESS, 2024, vol. 32, no. 23, pp. 41433-41444. ISSN 1094-4087. Dostupné na: <https://doi.org/10.1364/OE.539235>, Registrované v: WOS
2. [1.1] HU, Dingqin - TANG, Hua - CHEN, Chen - LEE, Duu-Jong - LU, Shirong - LI, Gang - HSU, Hsien-Yi - LAQUAI, Frederic. Solid Additive Engineering for Next-generation Organic Photovoltaics. In ADVANCED MATERIALS, 2024, vol. 36, no. 51. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202406949>, Registrované v: WOS
3. [1.1] HU, Shiqi - LIANG, Zezhou - ZHONG, Tian - ZHOU, Ruike - WAN, Ming - LIU, Xueqing - XIAO, Biao - YAN, Lihe - YANG, Renqiang. Time-Dependent Mechanical Properties of Bulk Heterojunction Films in Organic Solar Cells. In

MACROMOLECULES, 2024, vol. 57, no. 24, pp. 11763-11773. ISSN 0024-9297. Dostupné na: <https://doi.org/10.1021/acs.macromol.4c02019>, Registrované v: WOS

4. [1.1] KIM, Bomi - LEE, Yang-Soo - UM, Duhyeon - JEONG, Won - LEE, Seul - KIM, Kwangmin - NAM, GyuMin - HWANG, Hyegyeong - KIM, SuHyun - KIM, Taeyoon - LEE, Kwanghee - KANG, Hongkyu - KIM, BongSoo. Asymmetrical Elongation of Branched Alkyl Chains in Non-Fullerene Acceptors for Large-Area Organic Solar Modules. In ADVANCED FUNCTIONAL MATERIALS, 2024, vol. 34, no. 44. ISSN 1616-301X. Dostupné na:

<https://doi.org/10.1002/adfm.202407403>, Registrované v: WOS

5. [1.1] LI, Haotian - ZENG, Desheng - HUANG, Yihang - HUANG, Qingzhong - HANG, Xinliang. Ultra-compact, ultra-low-loss and broadband 2x2 nonvolatile optical switch based on Sb₂Se₃ phase change material. In OPTICS EXPRESS, 2024, vol. 32, no. 20, pp. 35287-35297. ISSN 1094-4087. Dostupné na:

<https://doi.org/10.1364/OE.534645>, Registrované v: WOS

6. [1.1] LI, Yu-Ru - LI, Yan - ZENG, Siqing - ZHAO, Annan - YAO, Shunyu - ZHANG, Mingjie - LI, Zhaohui. Lossless Phase-Change Material Enabled Wideband High-Efficiency Spatial Light Phase Modulation at Near-Infrared. In LASER & PHOTONICS REVIEWS, 2024, vol. 18, no. 11. ISSN 1863-8880. Dostupné na: <https://doi.org/10.1002/lpor.202400293>, Registrované v: WOS

7. [1.1] WANG, Yufei - SUN, Kangbo - LI, Chao - ZHAO, Chaoyue - GAO, Chuanlin - ZHU, Liangxiang - BAI, Qing - XIE, Chen - YOU, Peng - LV, Jie - SUN, Xiaokang - HU, Hanlin - WANG, Zhibo - HU, Huawei - TANG, Zeguo - HE, Bin - QIU, Mingxia - LI, Shunpu - ZHANG, Guangye. A Novel Upside-Down Thermal Annealing Method Toward High-Quality Active Layers Enables Organic Solar Cells with Efficiency Approaching 20%. In ADVANCED MATERIALS, 2024, vol. 36, no. 47. ISSN 0935-9648. Dostupné na:

<https://doi.org/10.1002/adma.202411957>, Registrované v: WOS

8. [1.1] XIN, Jingming - ZHAO, Chao - GENG, Ziqi - XUE, Wenyue - CHEN, Zhenyu - SONG, Chunpeng - YAN, Han - LIANG, Qiuju - MIAO, Zongcheng - MA, Wei - LIU, Jiangang. Elucidate the Thermal Degradation Mechanism of Y6-Based Organic Solar Cells by Establishing Structure-Property Correlation. In ADVANCED ENERGY MATERIALS, 2024, vol. 14, no. 30. ISSN 1614-6832. Dostupné na: <https://doi.org/10.1002/aenm.202401433>, Registrované v: WOS

9. [1.1] ZHANG, Cuifen - LI, Zheng - LIN, Yi - WANG, Zhibo - HU, Huawei - WANG, Ming - TANG, Zheng - MA, Zaifei. Improving voltage and quantum efficiency in blade-coated ITO-free organic solar cells processed with a non-halogenated solvent. In JOURNAL OF MATERIALS CHEMISTRY C, 2024, vol. 13, no. 1, pp. 345-355. ISSN 2050-7526. Dostupné na:

<https://doi.org/10.1039/d4tc02821j>, Registrované v: WOS

ADCA21

ALAM, Shahidul** - NÁDAŽDY, Vojtech - VÁRY, Tomáš - FRIEBE, Christian - MEITZNER, Rico - AHNER, Johannes - ANAND, Aman - KARUTHEDATH, Safakath - DE CASTRO, Catherine S. P. - GÖHLER, Clemens - DIETZ, Stefanie - CANN, Jonathan - KÄSTNER, Christian - KONKIN, Alexander - BEENKEN, Wichard - ANTON, Arthur Markus - ULBRICHT, Christoph - SPERLICH, Andreas - HAGER, Martin D. - RITTER, Uwe - KREMER, Friedrich - BRÜGGEMANN, Oliver - SCHUBERT, Ulrich S. - EGBE, Daniel A. M. - WELCH, Gregory C. - DYAKONOV, Vladimir - DEIBEL, Carsten - LAQUAI, Frédéric - HOPPE, Harald**. Uphill and downhill charge generation from charge transfer to charge separated states in organic solar cells. In Journal of Materials Chemistry C, 2021, vol. 9, no. 40, p. 14463-14489. (2020: 7.393 - IF, Q1 - JCR, 1.899 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2050-7526. Dostupné na:

<https://doi.org/10.1039/d1tc02351a>

Citácie:

1. [1.1] DONG, Yifan - ZHENG, Rui - QIAN, Deping - LEE, Tack Ho - BRISTOW, Helen L. - SHAKYA TULADHAR, Pabitra - CHA, Hyojung - DURRANT, James R. Activationless Charge Transfer Drives Photocurrent Generation in Organic Photovoltaic Blends Independent of Energetic Offset. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, 2024, vol. 146, no. 49, pp. 33579-33586. ISSN 0002-7863. Dostupné na: <https://doi.org/10.1021/jacs.4c11114>,

Registrované v: WOS

2. [1.1] LYONS, Richard Jack - SPRICK, Reiner Sebastian. Processing polymer photocatalysts for photocatalytic hydrogen evolution. In MATERIALS HORIZONS, 2024, vol. 11, no. 16, pp. 3764-3791. ISSN 2051-6347. Dostupné na: <https://doi.org/10.1039/d4mh00482e>, Registrované v: WOS

ADCA22

ALI, Israt - DIN, Muhammad Faraz Ud - GU, Zhi-Gang*. MXenes Thin Films: From Fabrication to Their Applications. In Molecules, 2022, vol. 27, no. 15, art. no. 4925. (2021: 4.927 - IF, Q2 - JCR, 0.705 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules27154925>

Citácie:

1. [1.1] ALMAWGANI, Abdulkarem H. M. - SORATHIYA, Vishal - SONI, Umangbhai - ALHAWARI, Adam R. H. - DAHER, Malek G. Numerical investigation of MXene-based ultrawideband solar absorber with behaviour prediction using machine learning. In OPTICAL AND QUANTUM ELECTRONICS, 2024, vol. 56, no. 2, art. no. 231. ISSN 0306-8919. Dostupné na: <https://doi.org/10.1007/s11082-023-05622-x>, Registrované v: WOS

2. [1.1] BIBI, Shumaila - SHAH, Syed Shoaib Ahmad - NAZIR, Muhammad Altaf - HELAL, Mohamed H. - EL-BAHY, Salah M. - EL-BAHY, Zeinhom M. - ULLAH, Sultan - WATTOO, Muhammad Ahmad - REHMAN, Aziz ur. MOF/MXene Composites: Synthesis, Application and Future Perspectives. In ADVANCED SUSTAINABLE SYSTEMS, 2024, vol. 8, no. 8. ISSN 2366-7486. Dostupné na: <https://doi.org/10.1002/adsu.202400011>, Registrované v: WOS

3. [1.1] GABA, Latisha - SIWACH, Priya - AGGARWAL, Kanika - DAHIYA, Sajjan - PUNIA, Rajesh - MAAN, A. S. - SINGH, Kuldeep - OHLAN, Anil. Hybridization of metal-organic frameworks and MXenes: Expanding horizons in supercapacitor applications. In ADVANCES IN COLLOID AND INTERFACE SCIENCE, 2024, vol. 332, no., art. no. 103268. ISSN 0001-8686. Dostupné na: <https://doi.org/10.1016/j.cis.2024.103268>, Registrované v: WOS

4. [1.1] MARIMUTHU, Sathish - SHYMA, Arunkumar Prabhakaran - SATHYANARAYANAN, Shriswaroop - GOPAL, Tamilselvi - JAMES, Jaimson T. - NAGALINGAM, Suruthi Priya - GUNASEELAN, Bharath - BABU, Sivasri - SELLAPPAN, Raja - GRACE, Andrews Nirmala. The dawn of MXene duo: revolutionizing perovskite solar cells with MXenes through computational and experimental methods. In NANOSCALE, 2024, vol. 16, no. 21, pp. 10108-10141. ISSN 2040-3364. Dostupné na: <https://doi.org/10.1039/d4nr01053a>, Registrované v: WOS

5. [1.1] MISHRA, Raghvendra Kumar - SARKAR, Jayati - VERMA, Kartikey - CHIANELLA, Iva - GOEL, Saurav - NEZHAD, Hamed Yazdani. Exploring transformative and multifunctional potential of MXenes in 2D materials for next-generation technology. In OPEN CERAMICS, 2024, vol. 18, no., art. no. 100596. ISSN 2666-5395. Dostupné na: <https://doi.org/10.1016/j.oceram.2024.100596>, Registrované v: WOS

6. [1.1] MOHAMMED, Muktar Nono - ZAED, M. A. - MUHAMMAD, Idris Misau

- SAIDUR, R. - TAN, K. H. - ABDULRASHEED, Abdulrahman A. - HAMZA, Usman Dadum. *Advances in solar desalination using 2D and biomass derived materials: A roadmap to sustainability*. In *SUSTAINABLE MATERIALS AND TECHNOLOGIES*, 2024, vol. 42, no., art. no. e01183. ISSN 2214-9937. Dostupné na: <https://doi.org/10.1016/j.susmat.2024.e01183>, Registrované v: WOS
7. [1.1] PANDEY, Sudeshana - OH, Yongsuk - GHIMIRE, Mukesh - SON, Ji-Won - LEE, Minoh - JUN, Yongseok. *Value addition of MXenes as photo-/electrocatalysts in water splitting for sustainable hydrogen production*. In *CHEMICAL COMMUNICATIONS*, 2024, vol. 60, no. 67, pp. 8789-8805. ISSN 1359-7345. Dostupné na: <https://doi.org/10.1039/d4cc01811g>, Registrované v: WOS
8. [1.1] SANDHU, Zeshan Ali - IMTIAZ, Kainat - RAZA, Muhammad Asam - ASHRAF, Adnan - TUBASSUM, Areej - KHAN, Sajawal - FARWA, Umme - BHALLI, Ali Haider - AL-SEHEMI, Abdullah G. *Beyond graphene: exploring the potential of MXene anodes for enhanced lithium-sulfur battery performance*. In *RSC ADVANCES*, 2024, vol. 14, no. 28, pp. 20032-20047. Dostupné na: <https://doi.org/10.1039/d4ra02704c>, Registrované v: WOS
9. [1.1] SARKAR, Sampad - HOSSAIN, S. K. Aakash - CHAKRABORTY, Poushali - GHOSH, Subhasis - BHATTACHARYA, Sandipan - MUKHERJEE, Sayan - DAS, Papita. *MXene: Recent advances in synthesis, characterization and emerging applications in energy, biomedical and environmental remediation*. In *SURFACES AND INTERFACES*, 2024, vol. 51, no., art. no. 104628. ISSN 2468-0230. Dostupné na: <https://doi.org/10.1016/j.surfin.2024.104628>, Registrované v: WOS
10. [1.1] ZAHOOR, Muhammad - IKRAM, Muhammad - KHAN, Shahab - ALI, Sajjad. *Mxene a versatile hybrid inorganic nanomaterial; a useful adsorbent for the removal of toxic heavy metals and its other applications*. In *INORGANIC CHEMISTRY COMMUNICATIONS*, 2024, vol. 170, no., art. no. 113157. ISSN 1387-7003. Dostupné na: <https://doi.org/10.1016/j.inoche.2024.113157>, Registrované v: WOS
11. [1.2] BERKANI, Mohammed. *MXene-based hybrid biosensors*. In *Mxene Based Hybrid Nano Architectures for Environmental Remediation and Sensor Applications from Design to Applications*, 2024-01-01, pp. 327-349. ISBN [9780323955164, 9780323955157]. Dostupné na: <https://doi.org/10.1016/B978-0-323-95515-7.00016-9>, Registrované v: SCOPUS
12. [1.2] RAFIQUE, Muhammad - TAHIR, M. Bilal - ANWAR, Saira. *MXenes for Energy Storage Applications: Emerging Characteristics, Compositions, and Synthesis Methods*. In *Mxenes for Energy Storage Applications Emerging Characteristics Compositions and Synthesis Methods*, 2024-01-01, pp. 1-341. ISBN [9781032737560, 9781040298558]. Dostupné na: <https://doi.org/10.1201/9781003465768>, Registrované v: SCOPUS
13. [1.2] RAVICHANDRAN, Aiswarya. *MXene-based hybrid for electrochemical supercapacitor applications*. In *Mxenes as Emerging Modalities for Environmental and Sensing Applications Theories Design and Approach*, 2024-01-01, pp. 279-293. ISBN [9780443218521, 9780443218538]. Dostupné na: <https://doi.org/10.1016/B978-0-443-21853-8.00018-9>, Registrované v: SCOPUS
14. [1.2] ROY, Sanjoy Sur - MEYYAPPAN, M. - GIRI, P. K. *Multilayered MXene-PEDOT:PSS Composite for Electromagnetic Interference Shielding*. In *IEEE Journal on Flexible Electronics*, 2024-01-01, 3, 6, pp. 282-288. ISSN 2768167X. Dostupné na: <https://doi.org/10.1109/JFLEX.2024.3374690>, Registrované v: SCOPUS
15. [1.2] THAPLIYAL, Devyani - TEWARI, Kshitij - VERMA, Sarojini - BHARGAVA, Chitresh K. - SEN, Pramita - MEHRA, Anshi - RANA, Snehil -

VERROS, George D. - ARYA, Raj K. *Introduction: The Evolution of Functional Coatings from Protection to Innovation. In Functional Coatings for Biomedical Energy and Environmental Applications, 2024-01-01, pp. 1-30. ISBN [9781394263141, 9781394263172]. Dostupné na: <https://doi.org/10.1002/9781394263172.ch1>, Registrované v: SCOPUS*

ADCA23 ALI, Israt - DIN, Muhammad Faraz Ud - CUZZUPÈ, Daniele T. - FAKHARUDDIN, Azhar - LOUIS, Hitler - NABI, Ghulam - GU, Zhi-Gang**. Ti3C2Tx-Modified PEDOT:PSS Hole-Transport Layer for Inverted Perovskite Solar Cells. In *Molecules*, 2022, vol. 27, no. 21, art. no. 7452. (2021: 4.927 - IF, Q2 - JCR, 0.705 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules27217452>

Citácie:

1. [1.1] KANTI, Praveen Kumar - JAYAN, K. Deepthi - SWAPNALIN, Jhilmil - BANERJEE, Prasun - PARAMASIVAM, Prabhu - WANATASANAPPAN, V. Vicki. A critical review on MXene as promising photovoltaic materials. In *SOLAR ENERGY MATERIALS AND SOLAR CELLS*, 2024, vol. 277, no., art. no. 113147. ISSN 0927-0248. Dostupné na: <https://doi.org/10.1016/j.solmat.2024.113147>, Registrované v: WOS

2. [1.1] MARIMUTHU, Sathish - SHYMA, Arunkumar Prabhakaran - SATHYANARAYANAN, Shriswaroop - GOPAL, Tamilselvi - JAMES, Jaimson T. - NAGALINGAM, Suruthi Priya - GUNASEELAN, Bharath - BABU, Sivasri - SELLAPPAN, Raja - GRACE, Andrews Nirmala. The dawn of MXene duo: revolutionizing perovskite solar cells with MXenes through computational and experimental methods. In *NANOSCALE*, 2024, vol. 16, no. 21, pp. 10108-10141. ISSN 2040-3364. Dostupné na: <https://doi.org/10.1039/d4nr01053a>, Registrované v: WOS

ADCA24 ANDERSSON, M. - DE BOISSIEU, M. - BRUHNE, S. - DRESCHER, C. - ASSMUS, W. - OHAHSHI, S. - TSAI, A.P. - MIHALKOVIČ, Marek - KRAJČÍ, Marián - RAPP, O. Electronic and structural properties of Laves-phase MgZn2 of varying chemical disorder. In *Physical Review B*, 2010, vol. 82, no. 2, art. no. 024202. (2009: 3.475 - IF, 3.107 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.82.024202>

Citácie:

1. [1.1] ROY, Dayal Chandra - RAHMAN, Md Atikur - SARKER, Sushmita - IRFAN, Ahmad - CHAUDHRY, Aijaz Rasool - RAHMAN, Md Ferdous. First-principles calculations to investigate pressure effects on structural, elastic, electronic, optical and thermodynamic properties of AB2 (A= Hf, Zr, and B=Co, W) type Laves phases. In *JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T*, 2024, vol. 30, no., pp. 2781-2797. ISSN 2238-7854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2024.04.001>, Registrované v: WOS

ADCA25 ANDREYEV, A.N. - LIBERATI, V. - ANTALIC, S. - ACKERMANN, D. - BARZAKH, A. - BREE, N. - COCOLIOS, T. E. - DIRIKEN, J. - ELSEVIERS, J. - FEDOROV, D. - FEDOSSEEV, V. N. - FINK, D. - FRANCHOO, S. - HEINZ, S. - HESSBERGER, F. P. - HOFMANN, S. - HUYSE, M. - IVANOV, O. - KHUYAGBAATAR, J. - KINDLER, B. - KÖSTER, U. - LANE, J. F. W. - LOMMEL, B. - MANN, R. - MARSH, B. - MOLKANOV, P. - NISHIO, K. - PAGE, R. D. - PATRONIS, N. - PAUWELS, D. - RADULOV, D. - SÁARO, S. - SELIVERSTOV, M. - SJÖDIN, M. - TSEKHANOVICH, I. - VAN DEN BERGH, P. - VAN DUPPEN, P. - VENHART, Martin - VESELSKY, M. α -decay spectroscopy of the chain $^{179}\text{Tl}g \rightarrow ^{175}\text{Au}g \rightarrow ^{171}\text{Ir}g \rightarrow ^{167}\text{Re}m$. In *Physical Review C*, 2013, vol. 87, no. 5, art. no. 054311. (2012: 3.715 - IF, 2.769 - SJR, Q1 - SJR, karentované

- CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.87.054311>

Citácie:

1. [1.1] HUANG, H. - WU, H. Y. - GUO, C. Y. - ZHANG, W. Q. - ZENG, Q. B. - WANG, D. X. - LIU, Z. - LI, Z. H. - ANDREYEV, A. N. - ANTALIC, S. - ANDEL, B. - SITARCIK, A. - HUA, H. - YU, X. H. - ZHOU, Z. X. - WANG, X. - LU, H. Y. - GAN, Z. G. - ZHANG, Z. Y. - MA, L. - HUANG, M. H. - YANG, H. B. - ZHANG, M. M. - WEN, X. J. - LI, G. S. - ZENG, F. F. - XU, X. X. - LIU, J. J. - JIAN, H. - ZHU, H. F. - GAO, Q. R. - QIN, Z. - WANG, J. R. - JIA, Z. M. - CAO, S. W. - ZHAI, P. F. - LI, Y. J. - ZHOU, X. H. - ZHANG, F. S. Attempt to synthesize the proton-unbound $^{182,183}\text{Bi}$ isotopes. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 1, art. no. 014326. ISSN 2469-9985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.110.014326>, Registrované v: WOS

2. [1.1] SEIF, W. M. - ABDULGHANY, A. R. Stability and fine structure of α decay of isomers in the trans-tin region of the nuclear chart and their single-particle structure. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 4, art. no. 044326. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.044326>, Registrované v: WOS

ADCA26

ANDREYEV, A.N. - ELSEVIERS, J. - HUYSE, M. - VAN DUPPEN, P. - ANTALIC, S. - BARZAKH, A. - BREE, N. - COCOLIOS, T.E. - COMAS, V.F. - DIRIKEN, J. - FEDOROV, D. - FEDOSSEEV, V. - FRANCHOO, S. - HEREDIA, J.A. - IVANOV, O. - KOSTER, U. - MARSH, B.A. - NISHIO, K. - PAGE, R.D. - PATRONIS, N. - SELIVERSTOV, M. - TSEKHANOVICH, I. - VAN DEN BERGH, P. - VAN DE WALLE, J. - VENHART, M. - VERMOTE, S. - VESELSKÝ, Martin - WAGEMANS, C. - ICHIKAWA, T. - IWAMOTO, A. - MOLLER, P. - SIERK, A.J. New type of asymmetric Fission in proton-rich nuclei. In *Physical Review Letters*, 2010, vol. 105, no. 25, art. no. 252502. (2009: 7.328 - IF, 6.325 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.105.252502>

Citácie:

1. [1.1] ANDEL, B. β -delayed fission studies at ISOLDE-CERN. In *INTERNATIONAL CONFERENCE ON HEAVY-ION COLLISIONS AT NEAR-BARRIER ENERGIES, FUSION 2023 : 8th International Conference on Heavy-Ion Collisions at Near-Barrier Energies (FUSION)*, 2024, vol. 306, no., art. no. 01025. ISSN 2100-014X. Dostupné na:

<https://doi.org/10.1051/epjconf/202430601025>, Registrované v: WOS

2. [1.1] BERNARD, Remi N. - SIMENEL, Cedric - BLANCHON, Guillaume - LAU, Ngee-Wein T. - MCGLYNN, Patrick. Fission of $^{208}\text{Pb}/^{208}\text{Pb}$ and $^{208}\text{Pb}/^{208}\text{Pb}$: a comparative study. In *EUROPEAN PHYSICAL JOURNAL A*, 2024, vol. 60, no. 9, art. no. 192. ISSN 1434-6001. Dostupné na:

<https://doi.org/10.1140/epja/s10050-024-01415-2>, Registrované v: WOS

3. [1.1] DA COSTA, Philippe - BENNACEUR, Karim - MEYER, Jacques - RYSSENS, Wouter - BENDER, Michael. Impact of choices for center-of-mass correction energy on the surface energy of Skyrme energy density functionals. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 3, art. no. 034316. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.034316>, Registrované v: WOS

4. [1.1] HUANG, Y. G. - GU, F. C. - FENG, Y. J. - WANG, H. - XIAO, E. X. - LEI, X. - ZHU, L. - SU, J. Multimodality of ^{187}Ir fission studied by the Langevin approach. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 3, art. no. 034609. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.034609>, Registrované v: WOS

5. [1.1] HUO, Dong-ying - WEI, Zheng - WU, Kang - JIANG, Qiao-yue - HAN, Chao - YAO, Ze-en - ZHANG, Yu - WANG, Jun-run. Influence of octupole deformed shell structure on the asymmetric fission of mercury isotopes. In *EUROPEAN PHYSICAL JOURNAL A*, 2024, vol. 60, no. 12, art. no. 244. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01456-7>, Registrované v: WOS
6. [1.1] KAUR, Pavneet - MAITI, Moumita - KUMAR, Rishabh - SINGH, Ankur - SHARMA, Himanshu - ARAFAT, Yasir - SANEESH, N. - PARIHARI, A. - KUMAR, M. - GOLDA, K. S. - JHINGAN, A. - SUGATHAN, P. Investigation of the mass distribution of the SUP28/SUPSi+SUP158/SUPGd system: Role of shell effects. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 3, art. no. 034613. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.034613>, Registrované v: WOS
7. [1.1] KHUYAGBAATAR, J. Ternary fission with the emission of long-range α particles in fission of the heaviest nuclei. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 1, art. no. 014311. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.014311>, Registrované v: WOS
8. [1.1] KUMAR, Vineet - MAHATA, K. - DHURI, Sangeeta - SHRIVASTAVA, A. - K., Ramachandran - PANDIT, S. - PARKAR, V. V. - CHAVAN, Arati - KUMAR, Abhinav - KAUR, Satbir - ROUT, P. C. Observation of asymmetric fission in ^{204}Pb at low excitation energies. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 1, art. no. 014613. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.014613>, Registrované v: WOS
9. [1.1] REDDY, S. Ramakrishna - PAL, A. - DUGGI, S. K. - SANTHOSH, T. - SHAH, Pankaj - SINGH, Tanya - PRAMEELA, K. - PARKAR, V. V. - DESHMUKH, N. N. - RATH, P. K. - GANDHI, Ramandeep - SANTRA, S. - ROUT, P. C. - PRASAD, E. - RAO, P. V. Madhusudhana - APPANNABABU, S. Fission modes in ^{223}Ac and ^{227}Pa compound nuclei. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 1, art. no. 014622. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.014622>, Registrované v: WOS
10. [1.1] VERMA, Dalip Singh - CHAUHAN, Pooja - VIVEK - PAWAR, Anjali Singh. Exploring asymmetric fission in ^{180}Hg * compound nucleus using dynamical cluster-decay model. In *NUCLEAR PHYSICS A*, 2024, vol. 1050, no., art. no. 122926. ISSN 0375-9474. Dostupné na: <https://doi.org/10.1016/j.nuclphysa.2024.122926>, Registrované v: WOS
11. [1.1] VIKAS - KAVITA - GOLDA, K. S. - GHOSH, T. K. - JHINGAN, A. - SUGATHAN, P. - CHATTERJEE, A. - BEHERA, B. R. - KUMAR, Ashok - KUMAR, Rakesh - SANEESH, N. - MOHIT - YADAV, Abhishek - YADAV, C. - APPANNABABU, S. - DUGGI, S. K. - DUBEY, Rakesh - RANI, Kavita - KUMAR, Neeraj - BANERJEE, A. - RANI, A. - NOOR, Shoaib - ACHARYA, Jaimin - SINGH, Hardev. Measurement of mass-angle and mass-total kinetic energy distributions from the fission of SUP190/SUPPt compound nucleus. In *JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS*, 2024, vol. 51, no. 3, art. no. 035103. ISSN 0954-3899. Dostupné na: <https://doi.org/10.1088/1361-6471/ad1f2f>, Registrované v: WOS
12. [1.1] VIKAS, T. K. - KAVITA, K. S. - GHOSH, T. K. - GOLDA, K. S. - JHINGAN, A. - SUGATHAN, P. - CHATTERJEE, A. - MOHIT, N. - YADAV, Abhishek - YADAV, C. - SANEESH, N. - BEHERA, B. R. - KUMAR, Ashok - RANI, Kavita - APPANNABABU, S. - DALAL, Ranjeet - THAKUR, Meenu - DUBEY, Rakesh - DUGGI, S. K. - KUMAR, Neeraj - BANERJEE, A. - RANI, A. - KUMAR, Rakesh - KAJAL - NOOR, Shoaib - ACHARYA, Jaimin - SINGH, Hardev. Investigating fusion-fission and quasifission in reaction populating

SUP188/SUPPt compound nucleus. In EUROPEAN PHYSICAL JOURNAL A, 2024, vol. 60, no. 10, art. no. 202. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01416-1>, Registrované v: WOS 13. [1.2] VARDACI, E. - DI NITTO, A. - BANERJEE, T. - PULCINI, A. - SETARO, P. A. - ALIFANO, G. - LA RANA, G. - CARJAN, N. - CICCHELLA, A. - SPINOSA, S. - KOZULIN, E. M. - TRZASKA, W. H. - ITKIS, I. M. - KNYAZHEVA, G. N. - KUMAR, D. - NOVIKOV, K. V. - VOROBIEV, I. V. - KHLEBNIKOV, S. V. - CHERALU, M. - KOZULINA, N. I. - PCHELINTSEV, I. V. - BORCEA, C. - CALINESCU, S. - FILIPESCU, D. M. - HARCA, I. M. - PETRONE, C. The role of Fission in the search of the Super Heavy Land: fission modes in heavy and superheavy nuclei. Case study of 180Hg. In EPJ Web of Conferences, 2024-10-08, 304, pp. ISSN 21016275. Dostupné na:

<https://doi.org/10.1051/epjconf/202430401003>, Registrované v: SCOPUS

ADCA27 ANZOLINI, C. - ANGEL, R.J. - MERLINI, M. - DERZSI, M. - TOKÁR, Kamil - MILANI, S. - KREBS, M.Y. - BRENNER, F.E. - NESTOLA, F. - HARRIS, J.W. Depth of formation of CaSiO₃-walsstromite included in super-deep diamonds. In Lithos, 2016, vol. 265, p. 138-147. (2015: 3.723 - IF, Q1 - JCR, 2.906 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0024-4937.

Citácie:

1. [1.1] CHAO, Keng-Hsien - BERRADA, Meryem - WANG, Siheng - PECKENPAUGH, Juliana - ZHANG, Dongzhou - CHARITON, Stella - PRAKAPENKA, Vitali - CHEN, Bin. Structure and equation of state of Ti-bearing davemaoite: New insights into the chemical heterogeneity in the lower mantle. In AMERICAN MINERALOGIST, 2024, vol. 109, no. 11, pp. 1861-1870. ISSN 0003-004X. Dostupné na: <https://doi.org/10.2138/am-2023-9104>, Registrované v: WOS

2. [1.1] GREGSON, Chris - BROOKER, Richard A. - KOHN, Simon C. - LORD, Oliver T. Thermodynamic and kinetic controls on phase stability and incorporation of water in larnite (β -Ca₂SiO₄): implications for calcium silicate inclusions in diamonds. In CONTRIBUTIONS TO MINERALOGY AND PETROLOGY, 2024, vol. 179, no. 9, art. no. 82. ISSN 0010-7999. Dostupné na: <https://doi.org/10.1007/s00410-024-02153-w>, Registrované v: WOS

3. [1.1] PUSHCHAROVSKY, D. Yu. Structural Transformations of Minerals in the Earth's Mantle: the New High Pressure Polymorphous Modifications of Olivine and Wollastonite. In GEOLOGY OF ORE DEPOSITS, 2024, vol. 66, no. 8, pp. 1188-1200. ISSN 1075-7015. Dostupné na:

<https://doi.org/10.1134/S1075701524700272>, Registrované v: WOS

ADCA28 ARAÚJO, Mateus - HUBER, Marcus - NAVASCUÉS, Miguel - PIVOLUSKA, Matej - TAVAKOLI, Armin. Quantum key distribution rates from semidefinite programming. In Quantum : the open journal for quantum science, 2023, vol. 7, art. no. 1019. (2022: 6.4 - IF, Q1 - JCR, 2.702 - SJR, Q1 - SJR). ISSN 2521-327X. Dostupné na: <https://doi.org/10.22331/q-2023-05-24-1019>

Citácie:

1. [1.2] GONZÁLEZ-RUIZ, Eva M. - RIVERA-DEAN, Javier - CENNI, Marina F.B. - SØRENSEN, Anders S. - ACÍN, Antonio - OUDOT, Enky. Device-independent quantum key distribution with realistic single-photon source implementations. In Optics Express, 2024-04-08, 32, 8, pp. 13181-13196. Dostupné na: <https://doi.org/10.1364/OE.497935>, Registrované v: SCOPUS

ADCA29 ASEEV, Pavel P. - MARRA, Pasquale - STAŇO, Peter - KLINOVAJA, Jelena - LOSS, Daniel. Degeneracy lifting of Majorana bound states due to electron-phonon interactions. In Physical Review B, 2019, vol. 99, no. 20, art. no. 205435. (2018: 3.736 - IF, Q1 - JCR, 1.502 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na:

<https://doi.org/10.1103/PhysRevB.99.205435>

Citácie:

1. [1.1] HSU, Chen-Hsuan. *Interaction- and phonon-induced topological phase transitions in double helical liquids*. In *NANOSCALE HORIZONS*, 2024, vol. 9, no. 10. ISSN 2055-6756. Dostupné na: <https://doi.org/10.1039/d4nh00254g>, Registrované v: WOS

2. [1.1] STEVENS, Callum R. - HERMANN, Andreas - HUXLEY, Andrew - WERMEILLE, Didier. *Incommensurate charge density wave order in U₂Ti*. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 12, art. no. 125116. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.125116>, Registrované v: WOS

3. [1.2] BOROSS, Péter - PÁLYI, András. *Braiding-based quantum control of a Majorana qubit built from quantum dots*. In *Physical Review B*, 2024-03-15, 109, 12, pp. ISSN 24699950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.109.125410>, Registrované v: SCOPUS

ADCA30

ASHRAF, Muhammad Adeel - VÉGSŐ, Karol - SHAJI, Ashin - BODIK, Michal - SÁNCHEZ, Mayela García - ZUBAIR, Muhammad - DIN, Muhammad Faraz Ud - MAJKOVÁ, Eva - STRAKOVÁ FEDORKOVÁ, Andrea - KECKES, Jozef - ŠIFFALOVIČ, Peter**. *Aligned Bilayer of Single-Walled Carbon Nanotubes Suppresses the Polysulfide Shuttle in Li-S Batteries*. In *ACS Applied Energy Materials*, 2022, vol. 5, no. 12, p. 15649-15655. (2021: 6.959 - IF, Q1 - JCR, 1.613 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2574-0962. Dostupné na: <https://doi.org/10.1021/acsaem.2c03255>

Citácie:

1. [1.1] SHEN, J.W. - FANG, X.Z. - FENG, Z.W. - HUANG, X. *High-performance Li-S battery separators based on F-element doped loofah sponge biomass carbon materials*. In *DIAMOND AND RELATED MATERIALS*. ISSN 0925-9635, AUG 2024, vol. 147. Dostupné na: <https://doi.org/10.1016/j.diamond.2024.111369>, Registrované v: WOS

ADCA31

ASQARDOUST, Sh. - HANZAKI, Z.H.** - ABEDI, H.R. - KRAJŇÁK, Tomáš - MINÁRIK, P. *Enhancing the strength and ductility in accumulative back extruded WE43 magnesium alloy through achieving bimodal grain size distribution and texture weakening*. In *Materials Science and Engineering A*, 2017, vol. 698, p. 218-229. (2016: 3.094 - IF, Q1 - JCR, 1.669 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2017.04.098>

Citácie:

1. [1.1] CHAI, Fang - HAN, Xinghui - MA, Zhiyuan - HUA, Lin - HU, Xuan - ZHUANG, Wuhao - ZHENG, Fangyan. *Unveiling strength-plasticity synergic mechanism of AZ91 alloy during multi-DOF forming*. In *JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY*, 2024, vol. 195, no., pp. 80-92. ISSN 1005-0302. Dostupné na: <https://doi.org/10.1016/j.jmst.2024.02.004>, Registrované v: WOS

2. [1.1] CHEN, Xiang - ZHANG, Junlei - WANG, Min - WANG, Weizhang - ZHAO, Di - HUANG, Haiming - ZHAO, Qi - XU, Xiaofei - ZHANG, Hongxia - HUANG, Guangsheng. *Research progress of heterogeneous structure magnesium alloys: A review*. In *JOURNAL OF MAGNESIUM AND ALLOYS*, 2024, vol. 12, no. 6, pp. 2147-2181. ISSN 2213-9567. Dostupné na: <https://doi.org/10.1016/j.jma.2024.04.001>, Registrované v: WOS

3. [1.1] LI, Shaojie - JIN, Jianfeng - SUN, Hao - WANG, Yongbo - REN, Yuping - WANG, Mingtao - QIN, Gaowu. *Micromechanics Modeling on Mechanical Properties in Mg Alloys with Bimodal Grain Size Distribution*. In

NANOMATERIALS, 2024, vol. 14, no. 22, art. no. 1807. Dostupné na:

<https://doi.org/10.3390/nano14221807>, Registrované v: WOS

4. [1.1] LIU, Jinge - MIN, Shuyuan - MAO, Zijun - ZHOU, Mengran - LIU, Bingchuan - LIU, Dazhi - SONG, Fei - WEN, Peng - TIAN, Yun - ZHENG, Yufeng. Research Article Influence of high temperature oxidation on mechanical properties and in vitro biocompatibility of WE43 magnesium alloy fabricated by laser powder bed fusion. In JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY, 2024, vol. 179, no., pp. 26-39. ISSN 1005-0302. Dostupné na: <https://doi.org/10.1016/j.jmst.2023.08.056>, Registrované v: WOS

5. [1.1] LONE, Nadeem Fayaz - ALI, Nabeel - ABIDI, Mustufa Haider - BAJAJ, Dhruv - KHAN, Touseef - CHEN, Daolun - AL-AHMARI, Abdulrahman - SIDDIQUEE, Arshad Noor. Strategy for double-side friction stir welding of thick Mg4Y3Gd alloy joints. In INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, 2024, vol. 131, no. 9-10, pp. 5305-5323. ISSN 0268-3768. Dostupné na: <https://doi.org/10.1007/s00170-024-13352-x>, Registrované v: WOS

6. [1.1] WANG, Haiqing - LI, Jianbo - TANG, Biao - WANG, Yitao - LUO, Huan - GUAN, Bo - CHEN, Xianhua - ZHENG, Kaihong - PAN, Fusheng. Heterogeneous deformation-induced strengthening of extruded Tip/ WE43 composites. In MATERIALS CHARACTERIZATION, 2024, vol. 207, no., art. no. 113526. ISSN 1044-5803. Dostupné na: <https://doi.org/10.1016/j.matchar.2023.113526>, Registrované v: WOS

7. [1.1] ZOU, Jingfeng - MA, Lifeng - ZHU, Yanchun - QIN, Ling - YUAN, Yuan. Gradient microstructure and superior strength-ductility synergy of AZ61 magnesium alloy bars processed by radial forging with different deformation temperatures. In JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY, 2024, vol. 170, no., pp. 65-77. ISSN 1005-0302. Dostupné na: <https://doi.org/10.1016/j.jmst.2023.07.003>, Registrované v: WOS

8. [1.2] LI, Bochao - FAN, Lingling - CUI, Zhuang - FU, Ruihao - LI, Shupeng - LIU, Manping - JIANG, Bin - ZENG, Ying. Current status of research on preparation and strengthening/toughening mechanism of heterogeneous magnesium. In Zhongguo Youse Jinshu Xuebao Chinese Journal of Nonferrous Metals, 2024-07-01, 34, 7, pp. 2147-2172. ISSN 10040609. Dostupné na: <https://doi.org/10.11817/j.ysxb.1004.0609.2023-44572>, Registrované v: SCOPUS

9. [1.2] LIU, Jinge - MIN, Shuyuan - MAO, Zijun - ZHOU, Mengran - LIU, Bingchuan - LIU, Dazhi - SONG, Fei - WEN, Peng - TIAN, Yun - ZHENG, Yufeng. Influence of high temperature oxidation on mechanical properties and in vitro biocompatibility of WE43 magnesium alloy fabricated by laser powder bed fusion. In Journal of Materials Science and Technology, 2024-04-20, 179, pp. 26-39. ISSN 10050302. Dostupné na: <https://doi.org/10.1016/j.jmst.2023.08.056>, Registrované v: SCOPUS

ADCA32

ATHANASOPOULOS, Stavros - SCHAUER, Franz - NÁDAŽDÝ, Vojtech - WEIß, Mareike - KAHLE, Frank-Julian - SCHERF, Ullrich - BÄSSLER, Heinz - KÖHLER, Anna**. What is the Binding Energy of a Charge Transfer State in an Organic Solar Cell? In Advanced Energy Materials, 2019, vol. 9, no. 24, art. no. 1900814. (2018: 24.884 - IF, Q1 - JCR, 8.900 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1614-6832. Dostupné na: <https://doi.org/10.1002/aenm.201900814>

Citácie:

1. [1.1] BAHARFAR, Mahroo - HILLIER, Andrew C. - MAO, Guangzhao. Charge-Transfer Complexes: Fundamentals and Advances in Catalysis, Sensing, and Optoelectronic Applications. In ADVANCED MATERIALS, 2024, vol. 36, no. 42,

art. no. 2406083. ISSN 0935-9648. Dostupné na:

<https://doi.org/10.1002/adma.202406083>, Registrované v: WOS

2. [1.1] BENATTO, Leandro - MESQUITA, Omar - ROMAN, Lucimara S. - CAPAZ, Rodrigo B. - CANDIOTTO, Graziani - KOEHLER, Marlus. PLQ-sim: A computational tool for simulating photoluminescence quenching dynamics in organic donor/acceptor blends. In *COMPUTER PHYSICS COMMUNICATIONS*, 2024, vol. 296, no., art. no. 109015. ISSN 0010-4655. Dostupné na:

<https://doi.org/10.1016/j.cpc.2023.109015>, Registrované v: WOS

3. [1.1] LIN, Rui - ZHOU, Hui - XU, Xuee - OUYANG, Xinhua. Boosting the efficiency of organic solar cells based on a highly planar n-conjugated solid additive working as the sensitizer. In *SURFACES AND INTERFACES*, 2024, vol. 46, no., art. no. 104072. ISSN 2468-0230. Dostupné na:

<https://doi.org/10.1016/j.surfin.2024.104072>, Registrované v: WOS

4. [1.1] MA, Xiaohui - LI, Tao - SONG, Gang - HE, Zhicai - CAO, Yong. Chemisorption-Induced Robust and Homogeneous Tungsten Disulfide Interlayer Enables Stable PEDOT-Free Organic Solar Cells with Over 19% Efficiency. In *NANO LETTERS*, 2024, vol. 24, no. 10, pp. 3051-3058. ISSN 1530-6984.

Dostupné na: <https://doi.org/10.1021/acs.nanolett.3c04519>, Registrované v: WOS

5. [1.1] RUKHSAR, Jaweria - WAQAS, Muhammad - AKHTER, Muhamed Salim - SHABAN, Mohamed - AL-SAEEDI, Sameerah I. - MAHR, Muhammad Shabir - HASANIN, Tamer H. A. - IBRAHIM, Mahmoud A. A. - ALATAWI, Naifa S. - KHERA, Rasheed Ahmad. A DFT approach toward designing selenophene-based unfused small molecule acceptors by end-capped modification for improving the photovoltaic performance of organic solar cells. In *JOURNAL OF PHYSICAL ORGANIC CHEMISTRY*, 2024, vol. 37, no. 3. ISSN 0894-3230. Dostupné na:

<https://doi.org/10.1002/poc.4587>, Registrované v: WOS

6. [1.1] TOKMOLDIN, Nurlan - DEIBEL, Carsten - NEHER, Dieter - SHOAEE, Safa. Contemporary Impedance Analyses of Archetypical PM6:Y6 Bulk-Heterojunction Blend. In *ADVANCED ENERGY MATERIALS*, 2024, vol. 14, no. 27. ISSN 1614-6832. Dostupné na: <https://doi.org/10.1002/aenm.202401130>, Registrované v: WOS

ADCA33 AUGER, M.A. - VAZQUEZ, L. - CUERNO, R. - CASTRO, M. - JERTEL, Matej - SANCHEZ, O. Intrinsic anomalous surface roughening of TiN films deposited by reactive sputtering. In *Physical Review B*, 2006, vol. 73, no. 4, art. no. 045436. (2005: 3.185 - IF, Q1 - JCR, 2.126 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.73.045436>

Citácie:

1. [1.1] BERNARD, Maximilien - LE DOUSSAL, Pierre - ROSSO, Alberto - TEXIER, Christophe. Anomalous scaling of heterogeneous elastic lines: A picture from sample-to-sample fluctuations. In *PHYSICAL REVIEW E*, 2024, vol. 110, no. 1, art. no. 014104. ISSN 2470-0045. Dostupné na:

<https://doi.org/10.1103/PhysRevE.110.014104>, Registrované v: WOS

2. [1.1] SHIN, Jungyu - LEE, I. J. Surface Evolution of Polymer Films Grown by Vapor Deposition: Growth of Local and Global Slopes of Interfaces. In *POLYMERS*, 2024, vol. 16, no. 11, art. no. 1535. Dostupné na:

<https://doi.org/10.3390/polym16111535>, Registrované v: WOS

ADCA34 AULETTA, Vincenzo - FERRAIOLI, Diodato - RAI, Ashutosh - SCARPA, Giannicola - WINTER, Andreas. Belief-invariant and quantum equilibria in games of incomplete information. In *Theoretical Computer Science*, 2021, vol. 895, pp. 151-177. (2020: 0.827 - IF, Q4 - JCR, 0.464 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0304-3975. Dostupné na:

<https://doi.org/10.1016/j.tcs.2021.09.041>

Citácie:

1. [1.1] ABBOTT, Alastair A. - MHALLA, Mehdi - POCREAU, Pierre. *Improving social welfare in non-cooperative games with different types of quantum resources*. In *QUANTUM*, 2024, vol. 8, no., art. no. 1376. ISSN 2521-327X., Registrované v: WOS

2. [1.1] FORGES, Françoise - RAY, Indrajit. "Subjectivity and correlation in randomized strategies": Back to the roots. In *JOURNAL OF MATHEMATICAL ECONOMICS*, 2024, vol. 114, no., art. no. 103044. ISSN 0304-4068. Dostupné na: <https://doi.org/10.1016/j.jmateco.2024.103044>, Registrované v: WOS

ADCA35

AURANEN, K.** - UUSITALO, J. - BADRAN, H. - GRAHN, T. - GREENLEES, P. T. - HERZÁŇ, Andrej - JAKOBSSON, U. - JULIN, R. - JUUTINEN, S. - KONKI, J. - LEINO, M. - LEPPÄNEN, A.-P. - O'NEILL, G. - PAKARINEN, J. - PAPADAKIS, P. - PARTANEN, J. - PEURA, P. - RAHKILA, P. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - SCHOLEY, C. - SINCLAIR, L. - SORRI, J. - STOLZE, S. - VOSS, A. Exploring the boundaries of the nuclear landscape: alpha-decay properties of Pa-211. In *Physical Review C*, 2020, vol. 102, no. 3, art. no. 034305. (2019: 2.988 - IF, Q2 - JCR, 1.270 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.102.034305>

Citácie:

1. [1.1] ISMAIL, M. - ADEL, A. - ELLITHI, A. Y. - ABBAS, M. A. *Systematic study of α -decay in neutron-deficient nuclei*. In *CHINESE JOURNAL OF PHYSICS*, 2024, vol. 92, no., pp. 1097-1120. ISSN 0577-9073. Dostupné na: <https://doi.org/10.1016/j.cjph.2024.10.029>, Registrované v: WOS

2. [1.1] ZHANG, M. M. - ZHANG, Z. Y. - GAN, Z. G. - WANG, N. - YAO, H. - WANG, J. G. - HUANG, M. H. - MA, L. - YANG, H. B. - YANG, C. L. - TIAN, Y. L. - WANG, Y. S. - WANG, J. Y. - QIANG, Y. H. - WU, X. L. - XU, S. Y. - HUANG, X. Y. - LI, Z. C. - ZHAO, Z. - SUN, L. C. - ZHOU, H. - ZHANG, X. - XIE, G. - ZHU, L. - ZHENG, J. H. - LI, Y. J. - GUAN, F. - LU, Z. W. - HUANG, W. X. - HE, H. - XU, H. S. - REN, Z. Z. - ZHOU, S. G. *Experimental cross section study of $^{40}\text{Ca}+^{175}\text{Lu}$: Searching for new neutron-deficient Pa isotopes*. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 1, art. no. 014608. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.014608>, Registrované v: WOS

ADCA36

AURANEN, K.** - SIWACH, P. - ARUMUGAM, P. - BRISCOE, A. D. - FERREIRA, L. S. - GRAHN, T. - GREENLEES, P. T. - HERZÁŇ, Andrej - ILLANA, A. - JOSS, D.T. - JOUKAINEN, H. - JULIN, R. - JUTILA, H. - LEINO, M. - LOUKO, J. - LUOMA, M. - MAGLIONE, E. - OJALA, J. - PAGE, R. D. - PAKARINEN, J. - RAHKILA, P. - ROMERO, J. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - TOLOSA-DELGADO, A. - UUSITALO, J. - ZIMBA, G. Probing triaxiality beyond the proton drip line: Spectroscopy of ^{147}Tm . In *Physical Review C*, 2023, vol. 108, no. 1, art. no. L011303. (2022: 3.1 - IF, Q2 - JCR, 1.305 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.108.L011303>

Citácie:

1. [1.1] VESIC, Jelena - VENCELJ, Matjaz. *Nuclear Physics Opportunities at European Small-Scale Facilities*. In *QUANTUM BEAM SCIENCE*, 2024, vol. 8, no. 1, art. no. 4. Dostupné na: <https://doi.org/10.3390/qubs8010004>, Registrované v: WOS

ADCA37

AURANEN, K.** - BRISCOE, A. D. - FERREIRA, L. S. - GRAHN, T. - GREENLEES, P. T. - HERZÁŇ, Andrej - ILLANA, A. - JOSS, D. T. -

JOUKAINEN, H. - JULIN, R. - JUTILA, H. - LEINO, M. - LOUKO, J. - LUOMA, M. - MAGLIONE, E. - OJALA, J. - PAGE, R. D. - PAKARINEN, J. - RAHKILA, P. - ROMERO, J. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - TOLOSA-DELGADO, A. - UUSITALO, J. - ZIMBA, G. Nanosecond-Scale Proton Emission from Strongly Oblate-Deformed Lu-149. In *Physical Review Letters*, 2022, vol. 128, no. 11, art. no. 112501. (2021: 9.185 - IF, Q1 - JCR, 3.246 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.128.112501>

Citácie:

1. [1.1] ISKRA, L. W. - MARGINEAN, R. - BOTTONI, S. - MARGINEAN, N. - FORNAL, B. - LEONI, S. - COLO, G. - STAN, L. - BORCEA, R. - BOROMIZA, M. - CALINESCU, S. - CIEPLICKA-ORYNCZAK, N. - CLISU-STAN, C. - COSTACHE, C. - CRESPI, F. C. L. - FILIPESCU, D. - FLOREA, N. - GHEORGHE, I. - IONESCU, A. - LICA, R. - MIHAI, C. - MIHAI, R. E. - NITA, C. R. - PASCU, S. - PETRONE, C. - TOMA, S. - TURTURICA, A. - UJENIUC, S. Octupole correlations in the 90 Zr and 91 Zr isotopes. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 6, art. no. 064312. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.064312>, Registrované v: WOS
2. [1.1] LU, Qi - ZHANG, Kai-Yuan - ZHANG, Shi-Sheng. Triaxial shape of the one-proton emitter SUP149/SUPLu. In *PHYSICS LETTERS B*, 2024, vol. 856, no., art. no. 138922. ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2024.138922>, Registrované v: WOS
3. [1.1] VESIC, Jelena - VENCELJ, Matjaz. Nuclear Physics Opportunities at European Small-Scale Facilities. In *QUANTUM BEAM SCIENCE*, 2024, vol. 8, no. 1, art. no. 4. Dostupné na: <https://doi.org/10.3390/qubs8010004>, Registrované v: WOS
4. [1.1] ZHANG, W. Q. - YU, X. H. - LIU, Z. - ANDREYEV, A. N. - QI, C. - DONG, J. M. - FU, X. Y. - HUANG, H. - LI, J. G. - LI, X. H. - UESAKA, T. - ZHOU, X. H. Prediction for proton-emitting candidate nuclei above the Z=82 shell closure. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 4, art. no. 044301. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.044301>, Registrované v: WOS

ADCA38 AYISSI, S. - PALOTÁS, Krisztián - QIN, H. - YANG, L. - CHARPENTIER, P.A. Nanostructural adsorption of vanadium oxide on functionalized graphene: a DFT study. In *Physical Chemistry Chemical Physics*, 2016, vol. 18, no. 42, p. 29208-29217. (2015: 4.449 - IF, Q1 - JCR, 1.725 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/c6cp03967g>

Citácie:

1. [1.1] FATIMA, Qawareer - ZHANG, Haiqian - HAIDRY, Azhar Ali - HUSSAIN, Riaz - ALSHGARI, Razan A. - MOHAMMAD, Saikh. Elucidating the optoelectronic properties Ag, Au and Pd doped graphene oxide using a DFT approach. In *DIAMOND AND RELATED MATERIALS*, 2024, vol. 146, no., art. no. 111151. ISSN 0925-9635. Dostupné na: <https://doi.org/10.1016/j.diamond.2024.111151>, Registrované v: WOS

ADCA39 AZIMI-ROEEN, Ghasem** - KASHANI-BOZORG, Seyed Farshid - NOSKO, Martin** - NAGY, Štefan** - MATKO, Igor**. Formation of Al/(Al₁₃Fe₄ + Al₂O₃) Nano-composites via Mechanical Alloying and Friction Stir Processing. In *Journal of Materials Engineering and Performance*, 2018, vol. 27, no. 2, p. 471-482. (2017: 1.340 - IF, Q3 - JCR, 0.611 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1059-9495. Dostupné na: <https://doi.org/10.1007/s11665-018-3170-8>

Citácie:

1. [1.1] RONG, Xudong - ZHAO, Dongdong - HE, Chunnian - ZHAO, Naiqin. Review: recent progress in aluminum matrix composites reinforced by in situ oxide ceramics. In *JOURNAL OF MATERIALS SCIENCE*, 2024, vol. 59, no. 22, pp. 9657-9684. ISSN 0022-2461. Dostupné na: <https://doi.org/10.1007/s10853-023-09120-z>, Registrované v: WOS
2. [1.1] SHARMA, A. - MORISADA, Y. - USHIODA, K. - FUJII, H. Elucidation of the factors controlling interface decohesion and particle fracture in a friction stir alloyed Al-Fe alloy system. In *MATERIALIA*. ISSN 2589-1529, MAY 2024, vol. 34. Dostupné na: <https://doi.org/10.1016/j.mtla.2024.102066>, Registrované v: WOS

ADCA40

AZIMI-ROEEN, Ghasem - KASHANI-BOZORG, Seyed Farshid - NOSKO, Martin - ŠVEC, Peter. Reactive mechanism and mechanical properties of in-situ hybrid nano-composites fabricated from an Al-Fe₂O₃ system by friction stir processing. In *Materials Characterization*, 2017, vol. 127, p. 279-287. (2016: 2.714 - IF, Q1 - JCR, 1.222 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1044-5803. Dostupné na: <https://doi.org/10.1016/j.matchar.2017.03.007>

Citácie:

1. [1.1] DU, Y. - LI, T. - ZHOU, Q. - PEI, X.H. - WANG, H.M. - FENG, T. - WU, H.X. - WANG, H.F. - ZHOU, W. - LIU, W.M. Achieving excellent mechanical and robust lubrication behavior in the CoCrNi medium-entropy alloy via in-situ graphite. In *CARBON*. ISSN 0008-6223, OCT 2024, vol. 229. Dostupné na: <https://doi.org/10.1016/j.carbon.2024.119503>, Registrované v: WOS
2. [1.1] KARAMI, S. - BORHANI, E. - YOUSEFIEH, M. - KARAMI, S. The effect of ratcheting strain on post-ratcheting tensile test of metal matrix composites (MMCs) reinforced by Fe₃O₄ nanoparticles manufactured by the accumulative roll bonding (ARB) process. In *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING*. ISSN 0921-5093, JUN 2024, vol. 903. Dostupné na: <https://doi.org/10.1016/j.msea.2024.146691>, Registrované v: WOS
3. [1.1] KNYAZHEV, E. - NIKOLAEVA, A. - CHUMAEVSKII, A. - CHEREMNOV, A. - ZYKOVA, A. - GURIANOV, D. - UTAGANOVA, V. - MOSKVICHEV, E. - SAVCHENKO, N. - TARASOV, S. Iron-Added Aluminum Matrix Composites Prepared by Friction Stir Processing: Structure, Mechanical and Tribological Properties. In *METALLOGRAPHY MICROSTRUCTURE AND ANALYSIS*. ISSN 2192-9262, JUN 2024, vol. 13, no. 3, p. 376-399. Dostupné na: <https://doi.org/10.1007/s13632-024-01085-y>, Registrované v: WOS
4. [1.1] LIU, F. - FENG, A. - PEI, X. - HOVANSKI, Y. - MISHRA, R.S. - MA, Z.Y. Friction stir based welding, processing, extrusion and additive manufacturing. In *PROGRESS IN MATERIALS SCIENCE*. ISSN 0079-6425, DEC 2024, vol. 146. Dostupné na: <https://doi.org/10.1016/j.pmatsci.2024.101330>, Registrované v: WOS
5. [1.1] SINGHAL, V. - JAIN, V.K. - RAMAN, R.S. - PATHARIA, D. - MITTAL, V. - MISHRA, S. - KUMAR, H. Optimization of friction stir processing parameters for improving structural and mechanical properties in in situ AA5083-H111/Al-Fe composites. In *PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE*. ISSN 0954-4062, MAY 2024, vol. 238, no. 10, p. 4477-4490. Dostupné na: <https://doi.org/10.1177/09544062231211672>, Registrované v: WOS
6. [1.1] YU, X.J. - XUE, J. - YAO, M.X. - SU, F. - YANG, J. - HUANG, H.J. - GONG, J.B. Dry sliding wear characteristics of in-situ hybrid (Al₃Ni + Al₂O₃)-Al composites. In *MATERIALS SCIENCE AND TECHNOLOGY*. ISSN 0267-0836,

APR 2024, vol. 40, no. 6, p. 427-440. Dostupné na:

<https://doi.org/10.1177/02670836231215643>, Registrované v: WOS

7. [1.2] LI, Gang - MA, Yan Ying - LIU, Zong Yang - NAN, Xiang Li. Ignition Sensitivity of Al/Fe₂O₃ Thermite Dust. In Dongbei Daxue Xuebao Journal of Northeastern University, 2024-03-15, 45, 3, pp. 415-438. ISSN 10053026.

Dostupné na: <https://doi.org/10.12068/j.issn.1005-3026.2024.03.014>,

Registrované v: SCOPUS

8. [1.2] YU, Weilin - SUN, Tianyu - YU, Huiwang - GUO, Baisong. Microstructure and mechanical properties of Al matrix composites synergistically reinforced by Cu layer-coated CNTs and in situ nano reinforcement. In Zhongnan Daxue Xuebao Ziran Kexue Ban Journal of Central South University Science and Technology, 2024-08-01, 55, 8, pp. 3083-3092. ISSN 16727207. Dostupné na:

<https://doi.org/10.11817/j.issn.1672-7207.2024.08.021>, Registrované v: SCOPUS

ADCA41

BAHINI, A.** - NESTERENKO, V. O.** - USMAN, I. T. - VON NEUMANN-COSEL, P. - NEVELING, R. - CARTER, J. - KVASIL, J. - REPKO, Anton - ADSLEY, P. - BOTHA, N. - BRÜMMER, J. W. - DONALDSON, L. M. - JONGILE, S. - KHUMALO, T. C. - LATIF, M. B. - LI, K. C. W. - MABIKA, P. Z. - MOLEMA, P. T. - MOODLEY, C. S. - OLORUNFUNMI, S. D. - PAPKA, P. - PELLEGRINI, L. - REBEIRO, B. - SIDERAS-HADDAD, E. - SMIT, F. D. - TRIAMBAK, S. - VAN ZYL, J. J. Isoscalar giant monopole resonance in ²⁴Mg and ²⁸Si: Effect of coupling between the isoscalar monopole and quadrupole strength. In Physical Review C, 2022, vol. 105, no. 2, art. no. 024311. (2021: 3.199 - IF, Q2 - JCR, 1.317 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.105.024311>

Citácie:

1. [1.1] PORRO, A. - COLO, G. - DUGUET, T. - GAMBACURTA, D. - V. SOMA, V. Symmetry-restored Skyrme-random-phase-approximation calculations of the monopole strength in deformed nuclei. In PHYSICAL REVIEW C, 2024, vol. 109, no. 4, art. no. 044315. ISSN 2469-9985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.109.044315>, Registrované v: WOS

2. [1.1] PORRO, A. - DUGUET, T. - EBRAN, J.p. - FROSINI, M. - ROTH, R. - SOMA, V. Ab initio description of monopole resonances in light- and medium-mass nuclei. In EUROPEAN PHYSICAL JOURNAL A, 2024, vol. 60, no. 6, art. no. 134. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01341-3>, Registrované v: WOS

ADCA42

BALÁŽ, Peter - HEGEDUS, Michal** - BALÁŽ, Matej - DANEU, Nina - SIFFALOVIC, P. - LUKÁČOVÁ BUJŇÁKOVÁ, Zdenka - TÓTHOVÁ, Erika - TEŠINSKÝ, Matej - ACHIMOVIČOVÁ, Marcela - BRIANČIN, Jaroslav - DUTKOVÁ, Erika - KAŇUCHOVÁ, Mária - FABIÁN, Martin - KITAZONO, Satoshi - DOBROZHAN, Oleksandr. Photovoltaic materials: Cu₂ZnSnS₄ (CZTS) nanocrystals synthesized via industrially scalable, green, one-step mechanochemical process. In Progress in Photovoltaics : research and applications, 2019, vol. 27, no. 9, p. 798-811. (2018: 7.776 - IF, Q1 - JCR, 1.942 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1062-7995. Dostupné na:

<https://doi.org/10.1063/1.5082636>

Citácie:

1. [1.1] GUGIN, N.Y. - YUSENKO, K.V. - KING, A. - MEYER, K. - AL-SABBAGH, D. - VILLAJOS, J.A. - EMMERLING, F. Lighting up industrial mechanochemistry: Real-time in situ monitoring of reactive extrusion using energy-dispersive X-ray diffraction. In CHEM. ISSN 2451-9294, NOV 14 2024, vol. 10, no. 11. Dostupné na: <https://doi.org/10.1016/j.chempr.2024.07.033>,

Registrované v: WOS

2. [1.1] LEJDA, K. - PARTYKA, J. - JANIK, J.F. Thermogravimetric/Thermal-Mass Spectroscopy Insight into Oxidation Propensity of Various Mechanochemically Made Kesterite Cu₂ZnSnS₄ Nanopowders. In MATERIALS. MAR 2024, vol. 17, no. 6. Dostupné na: <https://doi.org/10.3390/ma17061232>, Registrované v: WOS

3. [1.2] REYES-VALLEJO, O. - TORRES-ARELLANO, S. - ALEMAN-RAMIREZ, J. L. - SEBASTIAN, P. J. Green chemical synthesis of photovoltaic materials. In Photovoltaics Beyond Silicon Innovative Materials Sustainable Processing Technologies and Novel Device Structures, 2024-01-01, pp. 405-435. ISBN [9780323901895, 9780323901888]. Dostupné na: <https://doi.org/10.1016/B978-0-323-90188-8.00004-X>, Registrované v: SCOPUS

ADCA43 BALDINI, R. - DUBNIČKA, Stanislav - GAUZZI, P. - PACETTI, S. - PASQUALUCCI, E. - SRIVASTAVA, Y. Determination of nucleon and pion form factors via dispersion relations. In Nuclear Physics A, 2000, vol. 666, p. 38C-43C. (2000 - Current Contents, SCOPUS). ISSN 0375-9474.

Citácie:

1. [1.1] LEAO, Jurandi - DE MELO, J. P. B. C. - FREDERICO, T. - CHOI, Ho-Meoyng - JI, Chueng-Ryong. Off-shell pion properties: Electromagnetic form factors and light-front wave functions. In PHYSICAL REVIEW D, 2024, vol. 110, no. 7, art. no. 074035. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.074035>, Registrované v: WOS

ADCA44 BALOG, Martin** - ROSOVÁ, Alica - SZUNDIOVÁ, Bronislava - OROVČÍK, Ľubomír - KRÍŽIK, Peter - ŠVEC, Peter Jr. - KULICH, Miloslav - KOPERA, Ľubomír - KOVÁČ, Pavol - HUŠEK, Imrich - IBRAHIM, Ahmed Mohamed Hassan. HITEMAL-an outer sheath material for MgB₂ superconductor wires: The effect of annealing at 595-655 degrees C on the microstructure and properties. In Materials and Design, 2018, vol. 157, p. 12-23. (2017: 4.525 - IF, Q1 - JCR, 1.820 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0261-3069. Dostupné na: <https://doi.org/10.1016/j.matdes.2018.07.033>

Citácie:

1. [1.1] HAO, Q.B. - JIAO, G.F. - XU, X.Y. - LIU, G.Q. - LI, C.S. - ZHANG, S.N. Improvement of plastic deformation property and current carrying capacity of Bi₂₂₁₂ wires through low oxygen partial pressure post-annealing of precursor. In SURFACES AND INTERFACES. ISSN 2468-0230, JUN 2024, vol. 49. Dostupné na: <https://doi.org/10.1016/j.surfin.2024.104463>, Registrované v: WOS

ADCA45 BALOG, Martin** - KRÍŽIK, Peter - ŠVEC, Peter Jr. - OROVČÍK, Ľubomír. Industrially fabricated in-situ Al-AlN metal matrix composites (part A): Processing, thermal stability, and microstructure. In Journal of Alloys and Compounds, 2021, vol. 883, art. no. 160858. (2020: 5.316 - IF, Q1 - JCR, 0.746 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2021.160858>

Citácie:

1. [1.1] AI, X.Y. - LIU, Z.J. - ZOU, Z.X. Effect of Al on the Microstructure and Properties of Fe-Cr-C-N System Surfacing Alloy. In JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE. ISSN 1059-9495, OCT 2024, vol. 33, no. 20, p. 11037-11050. Dostupné na: <https://doi.org/10.1007/s11665-023-08716-5>, Registrované v: WOS

2. [1.1] COMHAIRE, J. - DONALDSON, I.W. - BISHOP, D.P. Fabrication of AlSi₁₀Mg-AlN metal matrix composites using laser powder bed fusion technology. In CANADIAN METALLURGICAL QUARTERLY. ISSN 0008-4433, 2024 MAY 23 2024. Dostupné na: <https://doi.org/10.1080/00084433.2024.2355428>,

Registrované v: WOS

3. [1.1] MA, C.H. - LI, Y. - GAO, Y. - ZHAO, C.R. - SUN, Y. Passive and active oxidation of Al in the Al-Al₂O₃ composite refractory at high temperatures in air. In CERAMICS INTERNATIONAL. ISSN 0272-8842, JUL 1 2024, vol. 50, no. 13, B, p. 24433-24441. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.04.174>, Registrované v: WOS

4. [1.1] MA, X. - HE, Z.S. - GAO, S. - LIU, X.F. - ZHAO, Y.F. Influences of Cu content on the microstructure and reinforcing behavior of network AlN/Al composites at 350 °C. In JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T. ISSN 2238-7854, JUL-AUG 2024, vol. 31, p. 412-419. Dostupné na: <https://doi.org/10.1016/j.jmrt.2024.06.088>, Registrované v: WOS

5. [1.1] SUN, X.D. - FAN, Y. - NIE, J.F. - CHEN, Y.Y. - XIE, K.W. - LIU, S.D. - ZHAO, Y.H. - LIU, X.F. Significant improvement of the room and cryogenic mechanical properties of an AlN particle reinforced Al matrix composite by alloying element magnesium. In COMPOSITES PART B-ENGINEERING. ISSN 1359-8368, JAN 1 2024, vol. 268. Dostupné na: <https://doi.org/10.1016/j.compositesb.2023.111056>, Registrované v: WOS

6. [1.2] KHOND, Anuj - CHARKHA, Pranav - TIWARI, Harish. Synthesis and characterization of Al-AlN composite. In Materials Today Proceedings, 2024-01-01, 98, pp. 160-165. Dostupné na: <https://doi.org/10.1016/j.matpr.2023.10.039>, Registrované v: SCOPUS

7. [1.2] SADEGHI, Behzad - CAVALIERE, Pasquale - PRUNCU, Catalin Iulian - BALOG, Martin - MARQUES DE CASTRO, Moara - CHAHAL, Rajni. Architectural design of advanced aluminum matrix composites: a review of recent developments. In Critical Reviews in Solid State and Materials Sciences, 2024-01-01, 49, 1, pp. 1-71. ISSN 10408436. Dostupné na: <https://doi.org/10.1080/10408436.2022.2078277>, Registrované v: SCOPUS

8. [1.2] YAN, Fengyun - SUN, Xiaohao - ZHANG, Yanqiang. Research Progress in AlNp/Al(Mg) Composites. In Tezhong Zhuzao Ji Youse Hejin Special Casting and Nonferrous Alloys, 2024-02-01, 44, 2, pp. 145-152. ISSN 10012249. Dostupné na: <https://doi.org/10.15980/j.tzzz.2024.02.001>, Registrované v: SCOPUS

9. [1.2] YAN, Xiao - ZHAO, Chunzhi - SASAKI, Gen. Thermal conductivity of Al/AlN interpenetrating phase composites with different preform porosity. In Journal of Physics Conference Series, 2024-01-01, 2730, 1, pp. ISSN 17426588. Dostupné na: <https://doi.org/10.1088/1742-6596/2730/1/012002>, Registrované v: SCOPUS

ADCA46

BALOG, Martin** - DE CASTRO, Moara Marques - ČAPEK, Jaroslav - ŠVEC, Peter Jr. - TAKÁČOVÁ, Martina - CSÁDEROVÁ, Lucia - SEDLÁČKOVÁ, Eva - ŠVASTOVÁ, Eliška - ŠKOLÁKOVÁ, Andrea - DVORSKÝ, Drahomír - PINC, Jan - HYBÁŠEK, Vojtěch - KUBÁSEK, Jiří - KRÍŽIK, Peter - SKIBA, Jacek - BAJANA, Otto - HASSAN IBRAHIM, Ahmed Mohamed. Suppression of mechanical instability in bioabsorbable ultrafine-grained Zn through in-situ stabilization by ZnO nanodispersoids. In Journal of Materials Research and Technology-JMR&T, 2023, vol. 25, pp. 4510-4527. (2022: 6.4 - IF, Q1 - JCR, 1.05 - SJR, Q1 - SJR). ISSN 2238-7854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2023.06.252>

Citácie:

1. [1.1] BEDNARCZYK, W. - WATROBA, M. - CIESLAK, G. - CIEMIÓREK, M. - HAMULKA, K. - SCHREINER, C. - FIGI, R. - MARCISZKO-WIACKOWSKA, M. - CIOŚ, G. - SCHWIEDRZIK, J. - MICHLER, J. - GAO, N. - LEWANDOWSKA, M. - LANGDON, T.G. Enhanced mechanical properties and microstructural stability of ultrafine-grained biodegradable Zn-Li-Mn-Mg-Cu alloys produced by

rapid solidification and high-pressure torsion. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, FEB 2024, vol. 892. Dostupné na: <https://doi.org/10.1016/j.msea.2023.146027>, Registrované v: WOS

2. [1.1] FIGUEIREDO, R.B. Strain-rate sensitivity maps and the estimation of ductility for low temperature superplasticity. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, APR 2024, vol. 59, no. 14, SI, p. 5854-5871. Dostupné na: <https://doi.org/10.1007/s10853-024-09453-3>, Registrované v: WOS

3. [1.1] LAH, Nurul Akmal Che. Manipulation in the In Situ Growth Design Parameters of Aqueous Zinc-Based Electrodes for Batteries: The Fundamentals and Perspectives. In BATTERY ENERGY, 2024, vol. 3, no. 6. ISSN 2768-1688. Dostupné na: <https://doi.org/10.1002/bte2.20240032>, Registrované v: WOS

ADCA47 BALOG, Martin - YU, P. - QIAN, M. - BEHULOVA, M. - ŠVEC, Peter - CICKA, R. Nanoscaled Al-AlN composites consolidated by equal channel angular pressing (ECAP) of partially in situ nitrided Al powder. In Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing, 2013, vol. 562, p. 190-195. (2012: 2.108 - IF, Q1 - JCR, 1.744 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0921-5093. Dostupné na: <https://doi.org/10.1103/PhysRevE.89.032128>

Citácie:

1. [1.2] YAN, Fengyun - SUN, Xiaohao - ZHANG, Yanqiang. Research Progress in AlNp/Al(Mg) Composites. In Tezhong Zhuzao Ji Youse Hejin Special Casting and Nonferrous Alloys, 2024-02-01, 44, 2, pp. 145-152. ISSN 10012249. Dostupné na: <https://doi.org/10.15980/j.tzzz.2024.02.001>, Registrované v: SCOPUS

ADCA48 BANDILLA, A. - DROBNÝ, Gabriel - JEX, Igor. Parametric down-conversion and maximal pump depletion. In Journal of Optics B : Quantum and Semiclassical Optics, 2000, vol. 2, no. 3, p. 265-270. (1999: 1.353 - IF). ISSN 1464-4266. Dostupné na: <https://doi.org/10.1088/1464-4266/2/3/308>

Citácie:

1. [1.1] CHINNI, Karthik - QUESADA, Nicolas. Beyond the parametric approximation: Pump depletion, entanglement, and squeezing in macroscopic down-conversion. In PHYSICAL REVIEW A, 2024, vol. 110, no. 1, art. no. 013712. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.013712>, Registrované v: WOS

ADCA49 BANDŽUCH, Peter - MORHÁČ, Miroslav - KRIŠTIÁK, Jozef. Study of the Van Cittert and Gold iterative methods of deconvolution and their application in the deconvolution of experimental spectra of positron annihilation. In Nuclear Instruments and Methods in Physics Research A. Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, vol. 384, no. 2-3, p. 506-515. (1996: 1.038 - IF, karentované - CCC). (1997 - Current Contents, SCOPUS). ISSN 0168-9002. Dostupné na: [https://doi.org/10.1016/S0168-9002\(96\)00874-1](https://doi.org/10.1016/S0168-9002(96)00874-1)

Citácie:

1. [1.1] LUZ, Igo A. S. - SIMAS, Eduardo F. - FARIAS, Paulo C. M. A. - DE ANDRADE, Luciano M. - SEIXAS, J. M. An FPGA-based parallel deconvolution application envisaging high-energy calorimeters operating under severe pile-up conditions. In JOURNAL OF INSTRUMENTATION, 2024, vol. 19, no. 8, art. no. P08022. ISSN 1748-0221. Dostupné na: <https://doi.org/10.1088/1748-0221/19/08/P08022>, Registrované v: WOS

2. [1.1] SPERANZA, Giorgio. Application of the Van Cittert Algorithm for Deconvolving Loss Features in X-ray Photoelectron Spectroscopy Spectra. In MATERIALS, 2024, vol. 17, no. 3, art. no. 763. Dostupné na: <https://doi.org/10.3390/ma17030763>, Registrované v: WOS

- ADCA50 BARTOSIK, M. - DANIEL, R. - MITTERRER, C. - MAŤKO, Igor - BURGHAMMER, M. - MAYRHOFER, P.H. - KECKES, J. Cross-sectional x-ray nanobeam diffraction analysis of a compositionally graded CrNx thin film. In *Thin Solid Films*, 2013, vol. 542, p. 1-4. (2012: 1.604 - IF, Q2 - JCR, 0.897 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0040-6090. Dostupné na: <https://doi.org/10.1016/j.tsf.2013.05.102>
- Citácie:
1. [1.1] LOTZE, Gudrun - IYER, Anand H. S. - BACKE, Olof - KALBFLEISCH, Sebastian - COLLIANDER, Magnus Hornqvist. *In situ characterization of stresses, deformation and fracture of thin films using transmission X-ray nanodiffraction microscopy*. In *JOURNAL OF SYNCHROTRON RADIATION*, 2024, vol. 31, no., pp. 42-54. ISSN 0909-0495. Dostupné na: <https://doi.org/10.1107/S1600577523010093>, Registrované v: WOS
- ADCA51 BARTOŠ, Josef - KRIŠTIÁK, Jozef. Free volume aspects of the strong-fragile classification of polymer liquids. In *Journal of Non-Crystalline Solids*, 1998, vol. 235, p. 293-295. (1997: 1.017 - IF, karentované - CCC). (1998 - Current Contents, WOS, SCOPUS). ISSN 0022-3093. Dostupné na: [https://doi.org/10.1016/S0022-3093\(98\)00508-0](https://doi.org/10.1016/S0022-3093(98)00508-0)
- Citácie:
1. [1.1] BOUYAHYA, Chaima - KLONOS, Panagiotis A. - ZAMBOULIS, Alexandra - XANTHOPOULOU, Eleftheria - AINALI, Nina Maria - MAJDOUB, Mustapha - KYRITSIS, Apostolos - BIKIARIS, Dimitrios N. *Preparation and Structural-Thermodynamical Investigation of Renewable Copolyesters Based on Poly (Ethylene Succinate) and Polyisobutylene*. In *POLYMERS*, 2024, vol. 16, no. 15, art. no. 2173. Dostupné na: <https://doi.org/10.3390/polym16152173>, Registrované v: WOS
- ADCA52 BARTOŠ, Josef - ŠAUŠA, Ondrej - KRIŠTIÁK, Jozef - BLOCHOWICZ, T. - RÖSSLER, E. Free-volume microstructure of glycerol and its supercooled liquid-state dynamics. In *Journal of Physics: Condensed Matter*, 2001, vol. 13, no. 50, p. 11473-11484. (2000: 1.608 - IF, karentované - CCC). (2001 - Current Contents, WOS, SCOPUS). ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/0953-8984/13/50/307>
- Citácie:
1. [1.1] RATHI, Akansha - BERNAL-ORTEGA, Pilar - ATTALLAH, Ahmed G. - KRAUSE-REHBERG, Reinhard - ELSAYED, Mohamed - TRIMBACH, Juergen - BERGMANN, Cristina - BLUME, Anke. *TDAE aromatic oil preference for polymer blends: An analysis of S-SBR, BR, and miscible S-SBR/BR systems*. In *POLYMER*, 2024, vol. 308, no., art. no. 127359. ISSN 0032-3861. Dostupné na: <https://doi.org/10.1016/j.polymer.2024.127359>, Registrované v: WOS
- ADCA53 BARTOŠ, Josef - ŠAUŠA, Ondrej - KOHLER, M. - ŠVAJDLENKOVÁ, Helena - LUNKENHEIMER, P. - KRIŠTIÁK, Jozef - LOIDL, A. Positron annihilation and broadband dielectric spectroscopy: A series of propylene glycols. In *Journal of Non-Crystalline Solids*, 2011, vol. 357, no. 2, p. 376-384. (2010: 1.492 - IF, Q1 - JCR, 0.910 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, SCOPUS). ISSN 0022-3093. Dostupné na: <https://doi.org/10.1016/j.jnoncrysol.2010.07.030>
- Citácie:
1. [1.1] LUKICHEV, A. A. *Anomalies in the temperature dependences of the time constant of various glass-forming substances*. In *JOURNAL OF NON-CRYSTALLINE SOLIDS*, 2024, vol. 641, no., art. no. 123151. ISSN 0022-3093. Dostupné na: <https://doi.org/10.1016/j.jnoncrysol.2024.123151>, Registrované v: WOS
- ADCA54 BARTOŠ, Josef - ISKROVÁ - MIKLOŠOVIČOVÁ, Martina, Miklošovičová -

CANGIALOSI, D. - ALEGRÍA, A. - ŠAUŠA, Ondrej - ŠVAJDLENKOVÁ, Helena - ARBE, A. - KRIŠTIÁK, Jozef - COLMENERO, J. Positron annihilation and relaxation dynamics from dielectric spectroscopy: poly (vinylmethylether). In Journal of Physics: Condensed Matter, 2012, vol. 24, no. 15, art. no. 155104. (2011: 2.546 - IF, Q2 - JCR, 1.660 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 0953-8984. Dostupné na: <https://doi.org/10.1016/j.jnoncrysol.2010.07.030>

Citácie:

1. [1.1] TAKATSUKA, Masanobu - ARAI, Yuka - SASAKI, Kaito - KITA, Rio - YAGIHARA, Shin - SHINYASHIKI, Naoki. Dielectric Relaxations of Polymer and Primary and Slow Water in Water Mixtures of Poly(vinyl methyl ether) as a Polymer with Low Glass Transition Temperature. In MACROMOLECULES, 2024, vol. 57, no. 17, pp. 8338-8350. ISSN 0024-9297. Dostupné na:

<https://doi.org/10.1021/acs.macromol.4c00616>, Registrované v: WOS

ADCA55

BARTOŠ, Josef** - ŠAUŠA, Ondrej - VYROUBALOVÁ, Michaela - MAŤKO, Igor - ŠVAJDLENKOVÁ, Helena. Confined effects on structural isomers in the MCM-41-SIL matrix as seen by extrinsic probes via PALS and ESR: n-butanol vs tert-butanol. In Journal of Physical Chemistry C, 2021, vol. 125, no. 29, p. 15796-15811. (2020: 4.126 - IF, Q2 - JCR, 1.401 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1932-7447. Dostupné na:

<https://doi.org/10.1021/acs.jpcc.1c01951>

Citácie:

1. [1.1] PALCIC, Ana - BOSNAR, Damir - HRSAK, Patricija - BRONIC, Josip - BOSNAR, Sanja. Comparative analysis of parent and modified ZSM-5 zeolites: Insights from positron annihilation lifetime spectroscopy. In RADIATION PHYSICS AND CHEMISTRY, 2024, vol. 223, no., pp. ISSN 0969-806X. Dostupné na: <https://doi.org/10.1016/j.radphyschem.2024.111919>, Registrované v: WOS

ADCA56

BARTOŠ, Josef - ŠAUŠA, Ondrej - SCHWARTZ, G.A. - ALEGRÍA, A. - ALBERDI, J.M. - ARBE, A. - KRIŠTIÁK, Jozef - COLMENERO, J. Positron annihilation and relaxation dynamics from dielectric spectroscopy and nuclear magnetic resonance: Cis-trans-1,4-poly(butadiene). In Journal of Chemical Physics, 2011, vol. 134, no. 16, art. no. 164507. (2010: 2.921 - IF, Q1 - JCR, 1.777 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0021-9606. Dostupné na: <https://doi.org/10.1140/epje/i2011-11104-x>

Citácie:

1. [1.1] MEI, Baicheng - SCHWEIZER, Kenneth S. Medium-Range Structural Order as the Driver of Activated Dynamics and Complexity Reduction in Glass-Forming Liquids. In JOURNAL OF PHYSICAL CHEMISTRY B, 2024, vol. 128, no. 45, pp. 11293-11312. ISSN 1520-6106. Dostupné na:

<https://doi.org/10.1021/acs.jpcc.4c05488>, Registrované v: WOS

ADCA57

BARUFFA, F. - STAÑO, Peter - FABIAN, J. Spin-orbit coupling and anisotropic exchange in two-electron double quantum dots. In Physical Review B, 2010, vol. 82, no. 4, art. no. 045311. (2009: 3.475 - IF, 3.107 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na:

<https://doi.org/10.1103/PhysRevB.82.045311>

Citácie:

1. [1.1] QI, Jiaan - LIU, Zhi-Hai - XU, Hongqi. Spin-orbit interaction enabled high-fidelity two-qubit gates. In NEW JOURNAL OF PHYSICS, 2024, vol. 26, no. 1, art. no. 013012. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad19ab>, Registrované v: WOS

ADCA58

BARUFFA, F. - STAÑO, Peter - FABIAN, J. Theory of anisotropic exchange in laterally coupled quantum dots. In Physical Review Letters, 2010, vol. 104, no. 12,

art. no. 126401. (2009: 7.328 - IF, 6.325 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.104.126401>

Citácie:

1. [1.1] LIU, Yang - GUAN, Shan - LUO, Jun-Wei - LI, Shu-Shen. Progress of Gate-Defined Semiconductor Spin Qubit: Host Materials and Device Geometries. In *ADVANCED FUNCTIONAL MATERIALS*, 2024, vol. 34, no. 19. ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202304725>, Registrované v: WOS

2. [1.1] QI, Jiaan - LIU, Zhi-Hai - XU, Hongqi. Spin-orbit interaction enabled high-fidelity two-qubit gates. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 1, art. no. 013012. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad19ab>, Registrované v: WOS

3. [1.1] ZHOU, Xiao-Feng - ZHUANG, Yu-Chen - ZHANG, Mo-Han - SHENG, Hao - SUN, Qing-Feng - HE, Lin. Relativistic artificial molecule of two coupled graphene quantum dots at tunable distances. In *NATURE COMMUNICATIONS*, 2024, vol. 15, no. 1, art. no. 8786. Dostupné na: <https://doi.org/10.1038/s41467-024-52992-1>, Registrované v: WOS

4. [1.2] DONARINI, Andrea - GRIFONI, Milena. Quantum Transport in Interacting Nanojunctions: A Density Matrix Approach. In *Lecture Notes in Physics*, 2024-01-01, 1024, pp. 1-574. ISSN 00758450. Dostupné na: <https://doi.org/10.1007/978-3-031-55619-7>, Registrované v: SCOPUS

ADCA59

BARZAKH, A.E. - ANDREYEV, A.N. - COCOLIOS, T.E. - DE GROOTE, R. P. - FEDOROV, D. V. - FEDOSSEEV, V. N. - FERRER, R. - FINK, D. A. - GHYS, L. - HUYSE, M. - KOSTER, U. - LANE, J. - LIBERATI, V. - LYNCH, K. M. - MARCH, B. A. - MOLKANOV, P. L. - PROCTER, T. J. - RAPISARDA, E. - ROTHE, S. - SANDHU, K. - SELIVERSTOV, M. D. - SJODIN, A. M. - VAN BEVEREN, C. - VAN DUPPEN, P. - VENHART, Martin - VESELSKÝ, Martin. Changes in mean-squared charge radii and magnetic moments of 179-184Ti measured by in-source laser spectroscopy. In *Physical Review C*, 2017, vol. 95, no. 1, art. no. 014324. (2016: 3.820 - IF, Q1 - JCR, 1.936 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.95.014324>

Citácie:

1. [1.1] KOSZORUS, Agota - CHEAL, Bradley. Laser spectroscopy of isomers. In *EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS*, 2024, vol. 233, no. 5, pp. 1133-1149. ISSN 1951-6355. Dostupné na: <https://doi.org/10.1140/epjs/s11734-024-01130-5>, Registrované v: WOS

2. [1.1] YANG, Dan - RONG, Yu-Ting - AN, Rong - SHI, Rui-Xiang. Potential signature of new magicity from universal aspects of nuclear charge radii. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 6, art. no. 064314. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.064314>, Registrované v: WOS

ADCA60

BÄSSLER, Heinz - KROH, Daniel - SCHAUER, Franz - NÁDAŽDY, Vojtech - KÖHLER, Anna**. Mapping the Density of States Distribution of Organic Semiconductors by Employing Energy Resolved - Electrochemical Impedance Spectroscopy. In *Advanced Functional Materials*, 2021, vol. 31, no. 9, art. no. 2007738. (2020: 18.808 - IF, Q1 - JCR, 6.069 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202007738>

Citácie:

1. [1.1] BITTON, Sapir - ALARCON-ESPEJO, Paula - PATERSON, Alexandra F.

- TESSLER, Nir. Experimentally verified organic electrochemical transistor model. In *JOURNAL OF APPLIED PHYSICS*, 2024, vol. 136, no. 12, art. no. 125501. ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/5.0230004>, Registrované v: WOS
2. [1.1] GUO, Jiajie - CHEN, Shinya E. - GIRIDHARAGOPAL, Rajiv - BISCHAK, Connor G. - ONORATO, Jonathan W. - YAN, Kangrong - SHEN, Ziqiu - LI, Chang-Zhi - LUSCOMBE, Christine K. - GINGER, David S. Understanding asymmetric switching times in accumulation mode organic electrochemical transistors. In *NATURE MATERIALS*, 2024, vol. 23, no. 5. ISSN 1476-1122. Dostupné na: <https://doi.org/10.1038/s41563-024-01875-3>, Registrované v: WOS
3. [1.1] HALLOCK, Claire D. - ROSE, Michael J. Electrochemical Impedance of Well-Passivated Semiconductors Reveals Bandgaps, Fermi Levels, and Interfacial Density of States. In *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*, 2024, vol. 146, no. 28, pp. 18989-18998. ISSN 0002-7863. Dostupné na: <https://doi.org/10.1021/jacs.4c02738>, Registrované v: WOS
4. [1.1] KASHANI, Somayeh - RECH, Jeromy James - LIU, Tuo - BAUSTERT, Kyle - GHAEFFARI, Abbas - ANGUNAWELA, Indunil - XIONG, Yuan - DINKU, Abay - YOU, Wei - GRAHAM, Kenneth - ADE, Harald. Exciton Binding Energy in Organic Polymers: Experimental Considerations and Tuning Prospects. In *ADVANCED ENERGY MATERIALS*, 2024, vol. 14, no. 6. ISSN 1614-6832. Dostupné na: <https://doi.org/10.1002/aenm.202302837>, Registrované v: WOS
5. [1.1] KUMARI, Tanya - VYALIH, Irina - LUNA, Miguel Angel Leon - AHMED, Hamsa - AHMAD, Mariam - ATAJanOV, Rovshen - JAYARAMAN, Eswaran - MANIKANDAN, Suraj - PACI, Barbara - DI CARLO, Aldo - ANDREASEN, Jens Wenzel - TURKOVIC, Vida - MADSEN, Morten. Bilayer layer-by-layer structures for enhanced efficiency and stability of organic photovoltaics beyond bulk heterojunctions. In *CELL REPORTS PHYSICAL SCIENCE*, 2024, vol. 5, no. 6, art. no. 102027. Dostupné na: <https://doi.org/10.1016/j.xcrp.2024.102027>, Registrované v: WOS
6. [1.1] LI YAO - WANG FENQIANG - WANG AILING - LAN JUN - LIU LIANGPENG - WU HUIZHOU - ZHANG PENGJIE. Progress in the Detection of Trap Density of States in Organic Thin Film Transistors. In *LASER & OPTOELECTRONICS PROGRESS*, 2024, vol. 61, no. 13, art. no. 1300005. ISSN 1006-4125. Dostupné na: <https://doi.org/10.3788/LOP232085>, Registrované v: WOS
7. [1.1] RAIMI, Monsurat Alarape - RAJEE, Abdullah Ola - GBER, Terkumbur E. - ARIKPO, Temple Okah - PEMBERE, Anthony M. S. - LOUIS, Hitler. Cobalt group transition metals (TM: Co, Rh, Ir) coordination of S-doped porphyrins (TM_S@PPR) as sensors for molecular SO₂ gas adsorption: a DFT and QTAIM study. In *JOURNAL OF MOLECULAR MODELING*, 2024, vol. 30, no. 3, art. no. 85. ISSN 1610-2940. Dostupné na: <https://doi.org/10.1007/s00894-024-05879-3>, Registrované v: WOS
8. [1.1] YAO, Fang - JIA, Zhenglin - DONG, Junqi - LI, Ruiming - YANG, Yujie - TANG, Haitao - ZOU, Wusheng - ZHAO, Jiangbin - LIU, Yong - WANG, Zhu - HE, Gaokui - LIN, Qianqian. Boosting the charge transport and stability of metal halide perovskite with boron nitride nanosheets for X-ray detection and imaging. In *CHEMICAL ENGINEERING JOURNAL*, 2024, vol. 480, no., art. no. 147945. ISSN 1385-8947. Dostupné na: <https://doi.org/10.1016/j.cej.2023.147945>, Registrované v: WOS

ADCA61

BAVARESCO, Jessica - HERRERA VALENCIA, Natalia - KLÖCKL, Claude - PIVOLUSKA, Matej - ERKER, Paul - FRIIS, Nicolai** - MALIK, Mehul** - HUBER, Marcus**. Measurements in two bases are sufficient for certifying high-

dimensional entanglement. In *Nature Physics*, 2018, vol. 14, no. 10, p. 1032-1037. (2017: 22.727 - IF, Q1 - JCR, 9.791 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1745-2473. Dostupné na: <https://doi.org/10.1038/s41567-018-0203-z>

Citácie:

1. [1.1] BEN, Wang - LIJIAN, Zhang. *Progress in Photonics Quantum Metrology (Invited)*. In *CHINESE JOURNAL OF LASERS-ZHONGGUO JIGUANG*, 2024, vol. 51, no. 1, art. no. 0112001. ISSN 0258-7025. Dostupné na: <https://doi.org/10.3788/CJL231494>, Registrované v: WOS
2. [1.1] BHAT, Vikas S. - BAJAR, Kiran - CHATTERJEE, Rounak - MUJUMDAR, Sushil. *Facile dual-shot measurement of Schmidt number in type-0 and type-2 downconversion*. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 3, art. no. 033151. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.033151>, Registrované v: WOS
3. [1.1] BITTERMANN, Julius Arthur - BULLA, Lukas - ECKER, Sebastian - NEUMANN, Sebastian Philipp - FINK, Matthias - BOHMANN, Martin - FRIIS, Nicolai - HUBER, Marcus - URSIN, Rupert. *Photonic entanglement during a zero-g flight*. In *QUANTUM*, 2024, vol. 7, no., art. no. 1256. ISSN 2521-327X., Registrované v: WOS
4. [1.1] COBUCCI, Gabriele - TAVAKOLI, Armin. *Detecting the dimensionality of genuine multiparticle entanglement*. In *SCIENCE ADVANCES*, 2024, vol. 10, no. 38, art. no. eadq4467. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.adq4467>, Registrované v: WOS
5. [1.1] ELMABROK, Osama - RAZAVI, Mohsen - ELTAIF, Tawfig - ALAGHBARI, Khaled A. *High-Dimensional Quantum Key Distribution in Quantum Access Networks*. In *IEEE PHOTONICS JOURNAL*, 2024, vol. 16, no. 3, art. no. 7301407. ISSN 1943-0655. Dostupné na: <https://doi.org/10.1109/JPHOT.2024.3383780>, Registrované v: WOS
6. [1.1] KIM, Byungjoo - HU, Kang-Min - SOHN, Myung-Hyun - KIM, Yosep - KIM, Yong-Su - LEE, Seung-Woo - LIM, Hyang-Tag. *Qudit-based variational quantum eigensolver using photonic orbital angular momentum states*. In *SCIENCE ADVANCES*, 2024, vol. 10, no. 43, art. no. eado3472. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.ado3472>, Registrované v: WOS
7. [1.1] KREBS, Robin - GACHECHILADZE, Mariami. *High Schmidt Number Concentration in Quantum Bound Entangled States*. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 22, art. no. 220203. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.220203>, Registrované v: WOS
8. [1.1] LIU ZHIFENG - HUANG SHUANGYIN - CHEN CHAO - REN ZHICHENG - WANG XILIN - WANG HUITIAN. *Spatial Control of Photonic Quantum States (Invited)*. In *ACTA OPTICA SINICA*, 2024, vol. 44, no. 10, art. no. 1026009. ISSN 0253-2239. Dostupné na: <https://doi.org/10.3788/AOS231992>, Registrované v: WOS
9. [1.1] LIU, Shuheng - FADEL, Matteo - HE, Qiongyi - HUBER, Marcus - VITAGLIANO, Giuseppe. *Bounding entanglement dimensionality from the covariance matrix*. In *QUANTUM*, 2024, vol. 8, no., art. no. 1236. ISSN 2521-327X., Registrované v: WOS
10. [1.1] SADANA, Simanraj - KANJILAL, Som - HOME, Dipankar - SINHA, Urbasi. *Relating an entanglement measure with statistical correlators for two-qudit mixed states using only a pair of complementary observables*. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 4, art. no. 138. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04348-3>, Registrované v: WOS

11. [1.1] SHI, Xian. Families of Schmidt-number witnesses for high dimensional quantum states. In COMMUNICATIONS IN THEORETICAL PHYSICS, 2024, vol. 76, no. 8, art. no. 085103. ISSN 0253-6102. Dostupné na: <https://doi.org/10.1088/1572-9494/ad48fb>, Registrované v: WOS
12. [1.1] TAVAKOLI, Armin - MORELLI, Simon. Enhanced Schmidt-number criteria based on correlation trace norms. In PHYSICAL REVIEW A, 2024, vol. 110, no. 6, art. no. 062417. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.062417>, Registrované v: WOS
13. [1.1] TAVAKOLI, Armin - POZAS-KERSTJENS, Alejandro - BROWN, Peter - ARAUJO, Mateus. Semidefinite programming relaxations for quantum correlations. In REVIEWS OF MODERN PHYSICS, 2024, vol. 96, no. 4, art. no. 045006. ISSN 0034-6861. Dostupné na: <https://doi.org/10.1103/RevModPhys.96.045006>, Registrované v: WOS
14. [1.1] WIDOMSKI, Adam - OGRODNIK, Maciej - KARPINSKI, Michal. Efficient detection of multidimensional single-photon time-bin superpositions. In OPTICA, 2024, vol. 11, no. 7, pp. 926-931. ISSN 2334-2536. Dostupné na: <https://doi.org/10.1364/OPTICA.503095>, Registrované v: WOS
15. [1.1] YAN, Wen-Zhe - LI, Yunting - HOU, Zhibo - ZHU, Huangjun - XIANG, Guo-Yong - LI, Chuan-Fen - GUO, Guang-Can. Experimental Demonstration of Inequivalent Mutually Unbiased Bases. In PHYSICAL REVIEW LETTERS, 2024, vol. 132, no. 8, art. no. 080202. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.080202>, Registrované v: WOS
16. [1.1] YU, Xiao-Dong - VEEREN, Isadora - GUEHNE, Otfried. Characterizing high-dimensional quantum contextuality. In PHYSICAL REVIEW A, 2024, vol. 109, no. 3, art. no. L030201. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.L030201>, Registrované v: WOS
17. [1.2] KREBS, Robin - GACHECHILADZE, Mariami. High Schmidt Number Concentration in Quantum Bound Entangled States. In Physical Review Letters, 2024-05-31, 132, 22, pp. ISSN 00319007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.220203>, Registrované v: SCOPUS
18. [1.2] SRIVASTAVA, Anubhav Kumar - MÜLLER-RIGAT, Guillem - LEWENSTEIN, Maciej - RAJCHEL-MIELDZIOĆ, Grzegorz. Introduction to Quantum Entanglement in Many-Body Systems. In Lecture Notes in Physics, 2024-01-01, 1025, pp. 225-285. ISSN 00758450. Dostupné na: https://doi.org/10.1007/978-3-031-55657-9_4, Registrované v: SCOPUS

ADCA62 BENGUS, V.Z. - DIKO, Pavel - CSACH, Kornel - MIŠKUF, Jozef - OCELÍK, Václav - KOROLKOVA, E.B. - TABACHNIKOVA, E. D. - DUHAJ, Pavol. Failure crack orientation at ductile shear fracture of Fe80-xNixB20 metallic-glass ribbons. In Journal of Materials Science, 1990, vol. 25, no. 3, p. 1598-1602. ISSN 0022-2461. Dostupné na: <https://doi.org/10.1007/BF01045356>

Citácie:

1. [1.1] LI, X. T. - LIU, Z. Q. - ZHANG, Z. J. - ZHANG, P. - ZHANG, Z. F. Ductile-to-brittle transition criterion of metallic glasses. In PHYSICAL REVIEW MATERIALS, 2024, vol. 8, no. 9, art. no. 093608. ISSN 2475-9953. Dostupné na: <https://doi.org/10.1103/PhysRevMaterials.8.093608>, Registrované v: WOS

ADCA63 BERLING, D. - CARICATO, A.P. - DENYS, Y. - FERNANDEY, M. - LEGGIERI, G. - LUBY, Štefan - LUCHES, A. - MARTINO, M. - MENGUCI, P. FeNi100-x nanometric films deposited by laser ablation on SiO2/Si substrates. In Applied Surface Science, 2007, vol. 253, no. 15, p. 6522-6526. ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2007.01.034>

Citácie:

1. [1.1] LIU, J. - LI, M. Q. - SUN, X. T. - LI, X. - XIE, W. H. - ZHAO, Z. J.

Influence of magnetic interaction on four-peak GMI profile in FINEMET/Fe35Ni65 composite ribbons. In JOURNAL OF APPLIED PHYSICS, 2024, vol. 136, no. 17, art. no. 173901. ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/5.0230490>, Registrované v: WOS

ADCA64 BERTHOLD, R. - MIHALKOVIČ, Marek - BURKHARDT, U. - PROTS, Yu. - AMARSANAA, A. - KREINER, G. Crystal structure, disorder and composition of the 2/1 approximant in the Al-Mg-Zn system revisited. In Intermetallics, 2014, vol. 53, p. 67-84. (2013: 2.119 - IF, Q1 - JCR, 1.494 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0966-9795. Dostupné na: <https://doi.org/10.1016/j.intermet.2014.02.022>

Citácie:

1. [1.1] BUGANSKI, Ireneusz - STRZALKA, Radoslaw - WOLNY, Janusz. The Tsai vs. Bergman Cluster Stability in ZnMgSc 1/1 Periodic Approximant Crystal. In ISRAEL JOURNAL OF CHEMISTRY, 2024, vol. 64, no. 10-11. ISSN 0021-2148. Dostupné na: <https://doi.org/10.1002/ijch.202300139>, Registrované v: WOS

ADCA65 BERTLE, R. - FABER, M. - GREENSITE, J. - OLEJNÍK, Štefan. The structure of projected center vortices in lattice gauge theory. In Journal of High Energy Physics, 1999, vol., no. 3, art. no. 019. ISSN 1029-8479.

Citácie:

1. [1.1] KAMLEH, Waseem - LEINWEBER, Derek B. - VIRGILI, Adam. Numerical indication that center vortices drive dynamical mass generation in QCD. In PHYSICAL REVIEW D, 2024, vol. 110, no. 5, art. no. L051502. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.L051502>, Registrované v: WOS

2. [1.1] MICKLEY, Jackson A. - KAMLEH, Waseem - LEINWEBER, Derek B. Center vortex geometry at finite temperature. In PHYSICAL REVIEW D, 2024, vol. 110, no. 3, art. no. 034516. ISSN 2470-0010. Dostupné na:

<https://doi.org/10.1103/PhysRevD.110.034516>, Registrované v: WOS

ADCA66 BERTLE, Roman - FABER, Manfred - GREENSITE, Jeff - OLEJNÍK, Štefan. P-vortices, gauge copies and lattice size. In Journal of High Energy Physics, 2000, vol., no. 10, art. no. 007. ISSN 1029-8479. Dostupné na: <https://doi.org/10.1088/1126-6708/2000/10/007>

Citácie:

1. [1.1] KAMLEH, Waseem - LEINWEBER, Derek B. - VIRGILI, Adam. Numerical indication that center vortices drive dynamical mass generation in QCD. In PHYSICAL REVIEW D, 2024, vol. 110, no. 5, art. no. L051502. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.L051502>, Registrované v: WOS

ADCA67 BERTLE, Roman - FABER, Manfred - GREENSITE, Jeff - OLEJNÍK, Štefan. Center dominance in SU(2) gauge-Higgs theory. In Physical review D, 2004, vol. 69, no. 1, art. no. 014007. (2003: 4.599 - IF, karentované - CCC). (2004 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: <https://doi.org/10.1103/PhysRevD.69.014007>

Citácie:

1. [1.1] KAMLEH, Waseem - LEINWEBER, Derek B. - VIRGILI, Adam. Numerical indication that center vortices drive dynamical mass generation in QCD. In PHYSICAL REVIEW D, 2024, vol. 110, no. 5, art. no. L051502. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.L051502>, Registrované v: WOS

ADCA68 BĚTÁK, Emil - MIKOLAJCZAK, Renata - STANISZEWSKA, Joanna - MIKOLAJEWSKI, Stefan - RURARZ, Edward. Activation cross sections for reactions induced by 14 MeV neutrons on natural tin and enriched Sn-112 targets

with reference to In-111 production via radioisotope generator Sn-112(n, 2n)Sn-111 In-111. In *Radiochimica Acta*, 2005, vol. 93, no. 6, p. 311-326. Dostupné na: <https://doi.org/10.1007/s10894-016-0066-1>

Citácie:

1. [1.1] KUCUKSUCU, S. - YIGIT, M. - PAAR, N. *Isotopic dependence of (n, α) reaction cross sections for Fe and Sn nuclei. In NUCLEAR PHYSICS A*, 2024, vol. 1041, no., art. no. 122779. ISSN 0375-9474. Dostupné na:

<https://doi.org/10.1016/j.nuclphysa.2023.122779>, Registrované v: WOS

ADCA69

BÉTERMIN, Laurent** - ŠAMAJ, Ladislav - TRAVĚNEC, Igor. Three-dimensional lattice ground states for Riesz and Lennard-Jones-type energies. In *Studies in Applied Mathematics*, 2023, vol. 150, no. 1, p. 69-91. (2022: 2.7 - IF, Q1 - JCR, 1.016 - SJR, Q1 - SJR). ISSN 0022-2526. Dostupné na:

<https://doi.org/10.1111/sapm.12533>

Citácie:

1. [1.1] KIESSLING, Michael K.H. - WALES, David J. *On the Global Minimum of the Classical Potential Energy for Clusters Bound by Many-Body Forces. In JOURNAL OF STATISTICAL PHYSICS*, 2024, vol. 191, no. 1, art. no. 8. ISSN 0022-4715. Dostupné na: <https://doi.org/10.1007/s10955-023-03215-2>,

Registrované v: WOS

ADCA70

BEYER, R. - BURGHARDT, H. - THURZO, Ilja - ZAHN, D.R.T. - GESSNER, T. A deconvolution of the transient response of (100) Si/SiO₂ semiconductor-insulator interface states according to small pulse excitation:: evidence of different branches of charge transition. In *Solid-State Electronics*, 2000, vol. 44, no. 8, p. 1463-1470. (1999: 0.930 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0038-1101.

Citácie:

1. [1.1] SARON, K. M. A. - AOUASSA, Mansour - HASSAN, N. K. - ALADIM, A. K. - IBRAHIM, Mohammed - BOUABDELLAOUI, Mohammed. *Transport and electrical properties of Si and Ge quantum dots embedded in oxide layers of MOS structures for optoelectronic applications. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*, 2024, vol. 35, no. 27, art. no. 1823. ISSN 0957-4522. Dostupné na: <https://doi.org/10.1007/s10854-024-13542-z>,

Registrované v: WOS

ADCA71

BIRAL, Elias J P - MÓLLER, Natália Salomé - PELSTER, Axel - DOS SANTOS, F Ednilson A. Bose-Einstein condensates and the thin-shell limit in anisotropic bubble traps. In *New Journal of Physics*, 2024, vol.26, no. 1, art. no. 013035. (2023: 2.8 - IF, Q2 - JCR, 1.09 - SJR, Q1 - SJR). ISSN 1367-2630. Dostupné na:

<https://doi.org/10.1088/1367-2630/ad1a29>

Citácie:

1. [1.1] TONONI, A. - SALASNICH, L. - YAKIMENKO, A. *Quantum vortices in curved geometries. In AVS QUANTUM SCIENCE*, 2024, vol. 6, no. 3, art. no. 030502. Dostupné na: <https://doi.org/10.1116/5.0211426>, Registrované v: WOS

2. [1.1] TONONI, Andrea - SALASNICH, Luca. *Shell-shaped atomic gases. In PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS*, 2024, vol. 1072, no., pp. 1-48. ISSN 0370-1573. Dostupné na:

<https://doi.org/10.1016/j.physrep.2024.04.004>, Registrované v: WOS

ADCA72

BISIO, A. - D'; ARIANO, G.M. - PERINOTTI, P. - SEDLÁK, Michal. Quantum learning algorithms for quantum measurements. In *Physics Letters A*, 2011, vol. 375, no. 39, p. 3425-3434. (2010: 1.963 - IF, Q2 - JCR, 0.932 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0375-9601. Dostupné na: <https://doi.org/10.1016/j.physleta.2011.08.002>

Citácie:

1. [1.1] LEWANDOWSKA, Paulina - KUKULSKI, Ryszard. *Storage and retrieval*

of von Neumann measurements via indefinite causal order structures. In PHYSICAL REVIEW A, 2024, vol. 110, no. 4, art. no. 042422. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.042422>, Registrované v: WOS

- ADCA73 BODIK, Michal** - ŠIFFALOVIČ, Peter - NÁDAŽDY, Peter - HOFBAUEROVÁ, Monika, Benkovičová - MARKOVIČ, Zoran M. - CHLPIK, Juraj - CIRAK, Július - KOTLÁR, Mário - MIČUŠÍK, Matej - JERGEL, Matej - MAJKOVÁ, Eva. On the formation of hydrophobic carbon quantum dots Langmuir films and their transfer onto solid substrates. In Diamond and Related Materials, 2018, vol. 83, p. 170-176. (2017: 2.232 - IF, Q2 - JCR, 0.686 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0925-9635. Dostupné na: <https://doi.org/10.1016/j.diamond.2018.02.011>
Citácie:
1. [1.1] RAZAVI, Roghayieh - TAJIK, Hossein - MOLAEI, Rahim - MCCLEMENTS, David Julian - MORADI, Mehran. Janus nanoparticles synthesized from hydrophobic carbon dots and carboxymethyl cellulose: Novel antimicrobial additives for fresh food applications. In FOOD BIOSCIENCE, 2024, vol. 62, no., art. no. 105171. ISSN 2212-4292. Dostupné na: <https://doi.org/10.1016/j.fbio.2024.105171>, Registrované v: WOS
2. [1.1] SHAALAN, Mohamed - VYKYDALOVA, Anna - SVAJDLENKOVA, Helena - KRONEKOVA, Zuzana - MARKOVIC, Zoran M. - KOVACOVA, Maria - SPITALSKY, Zdenko. Antibacterial activity of 3D printed thermoplastic elastomers doped with carbon quantum dots for biomedical applications. In POLYMER BULLETIN, 2024, vol. 81, no. 14, pp. 13009-13025. ISSN 0170-0839. Dostupné na: <https://doi.org/10.1007/s00289-024-05339-1>, Registrované v: WOS
- ADCA74 BODIK, Michal** - HVIZDOŠOVÁ, Adriana, Annušová - HAGARA, Jakub - MIČUŠÍK, Matej - OMASTOVÁ, Mária - KOTLÁR, Mário - CHLPÍK, Juraj - CIRÁK, Július - ŠVAJDLENKOVÁ, Helena - ANGUŠ, Michal - ROLDÁN, Alicia Marín - VEIS, Pavel - JERGEL, Matej - MAJKOVÁ, Eva - ŠIFFALOVIČ, Peter. An elevated concentration of MoS₂ lowers the efficacy of liquid-phase exfoliation and triggers the production of MoO_x nanoparticles. In Physical Chemistry Chemical Physics, 2019, vol. 21, no. 23, p. 12396-12405. (2018: 3.567 - IF, Q1 - JCR, 1.310 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/c9cp01951k>
Citácie:
1. [1.1] CHAVALEKVIRAT, Panwad - HIRUNPINYOPAS, Wisit - DESHSORN, Krittapong - JITAPUNKUL, Kulpavee - IAMPRASERTKUN, Pawin. Liquid Phase Exfoliation of 2D Materials and Its Electrochemical Applications in the Data-Driven Future. In PRECISION CHEMISTRY, 2024, vol. 2, no. 7, pp. 300-329. Dostupné na: <https://doi.org/10.1021/prechem.3c00119>, Registrované v: WOS
- ADCA75 BODIK, Michal - ZAHORANOVÁ, Anna - MIČUŠÍK, Matej - BUGÁROVÁ, Nikola - ŠPITÁLSKY, Zdenko - OMASTOVÁ, Mária - MAJKOVÁ, Eva - JERGEL, Matej - ŠIFFALOVIČ, Peter. Fast low-temperature plasma reduction of monolayer graphene oxide at atmospheric pressure. In Nanotechnology, 2017, vol. 28, no. 14, art. no. 145601. (2016: 3.440 - IF, Q1 - JCR, 1.339 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0957-4484. Dostupné na: <https://doi.org/10.1088/1361-6528/aa60ef>
Citácie:
1. [1.1] LI, Haiying - HAN, Yufei - QIU, Pengyu - QIAN, Yuzhe. Plasma-Assisted Preparation of Reduced Graphene Oxide and Its Applications in Energy Storage. In NANOMATERIALS, 2024, vol. 14, no. 23, art. no. 1922. Dostupné na: <https://doi.org/10.3390/nano14231922>, Registrované v: WOS

- ADCA76 BODIK, Michal** - DEMYDENKO, Maksym - SHABELNYK, Tetiana - HALAHOVETS, Yuriy - KOTLAR, Mario - KOSTIUK, Dmytro - SHAJI, Ashin - BRUNOVA, Alica - VEIS, Pavel - JERGEL, Matej - MAJKOVÁ, Eva - ŠIFFALOVÍČ, Peter. Collapse Mechanism in Few-Layer MoS₂ Langmuir Films. In *Journal of Physical Chemistry C*, 2020, vol. 124, no. 29, p. 15856-15861. (2019: 4.189 - IF, Q2 - JCR, 1.477 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.0c02365>
- Citácie:
- [1.1] *SHIN, Jae Hyuk* - *JO, Su Hun* - *RHYU, Hyejin* - *PARK, Chanwon* - *KANG, Myung Hyun* - *SONG, Wooseok* - *LEE, Sun Sook* - *LIM, Jongsun* - *MYUNG, Sung*. High-performance H₂S gas sensor utilizing MXene/MoS₂ heterostructure synthesized via the Langmuir-Blodgett technique and chemical vapor deposition. In *RSC ADVANCES*, 2024, vol. 14, no. 51, pp. 37781-37787. Dostupné na: <https://doi.org/10.1039/d4ra07555b>, Registrované v: WOS
 - [1.1] *YAO, Qiang* - *GUO, Jing* - *GUAN, Fucheng* - *LI, Jia* - *XU, Yi* - *ZHANG, Xin* - *LI, Zheng* - *ZHANG, Yihang* - *FENG, Shi*. Alginate-derived biomass carbon-molybdenum disulfide heterogeneous materials: Vertically grown/uniformly dispersed molybdenum disulfide nanosheets/nanoflowers for wastewater treatment. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, 2024, vol. 279, no., art. no. 135467. ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2024.135467>, Registrované v: WOS
- ADCA77 BODIK, Michal** - MAXIAN, Ondrej - HAGARA, Jakub - NÁDAŽDY, Peter - JERGEL, Matej - MAJKOVÁ, Eva - ŠIFFALOVÍČ, Peter. Langmuir-Scheaffer Technique as a Method for Controlled Alignment of 1D Materials. In *Langmuir*, 2020, vol. 36, no. 16, p. 4540-4547. (2019: 3.557 - IF, Q2 - JCR, 1.088 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.0c00045>
- Citácie:
- [1.1] *DA, Yaodong* - *WANG, Youxin* - *DONG, Heming* - *SHANG, Qi* - *ZHANG, Yu* - *WANG, Huashan* - *DU, Qian* - *GAO, Jianmin* - *LECLERE, Philippe* - *PAKDEL, Amir*. Development of Carbon Nanotubes-Graphene-Polydimethylsiloxane Composite Film with Excellent Electrothermal Performance. In *ENERGIES*, 2024, vol. 17, no. 1, art. no. 46. Dostupné na: <https://doi.org/10.3390/en17010046>, Registrované v: WOS
- ADCA78 BODIK, Michal** - JERGEL, Matej - MAJKOVÁ, Eva - ŠIFFALOVÍČ, Peter. Langmuir films of low-dimensional nanomaterials. In *Advances in colloid and interface science*, 2020, vol. 283, art. no. 102239. (2019: 9.922 - IF, Q1 - JCR, 2.066 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0001-8686. Dostupné na: <https://doi.org/10.1016/j.cis.2020.102239>
- Citácie:
- [1.1] *ALINIA, Zahra* - *ABDULHAMIED, Elmahdy* - *SELMANI, Serxho* - *LAMARCHE, Renaud* - *Miclette* - *EICHHORN, S. Holger* - *DEWOLF, Christine E.* Amphiphilicity of Tetraazaporphyrins Containing Four Terminal Carboxylic Acid and Four Alkyl Groups Promotes Face-On Orientation in Langmuir Films. In *LANGMUIR*, 2024, vol. 40, no. 50, pp. 26672-26684. ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.4c03800>, Registrované v: WOS
 - [1.1] *CHIAPPISI, Leonardo*. Liquid foams: New insights and perspectives from neutron and synchrotron scattering experiments. In *CURRENT OPINION IN COLLOID & INTERFACE SCIENCE*, 2024, vol. 72, no., art. no. 101823. ISSN 1359-0294. Dostupné na: <https://doi.org/10.1016/j.cocis.2024.101823>, Registrované v: WOS

3. [1.1] LIN, Heng - ZHENG, Yueting - ZHONG, Chao - LIN, Lihua - YANG, Kaiyu - LIU, Yang - HU, Hailong - LI, Fushan. Controllable-assembled functional monolayers by the Langmuir-Blodgett technique for optoelectronic applications. In *JOURNAL OF MATERIALS CHEMISTRY C*, 2024, vol. 12, no. 4, pp. 1177-1210. ISSN 2050-7526. Dostupné na: <https://doi.org/10.1039/d3tc03591c>, Registrované v: WOS
4. [1.1] MOULIK, Satya Priya - RAKSHIT, Animesh Kumar - NASKAR, Bappaditya. Physical chemical properties of surfactants in solution and their applications: A comprehensive account. In *JOURNAL OF SURFACTANTS AND DETERGENTS*, 2024, vol. 27, no. 6, pp. 895-925. ISSN 1097-3958. Dostupné na: <https://doi.org/10.1002/jsde.12757>, Registrované v: WOS
5. [1.1] PATEL, Reken N. - GOODFELLOW, Brian - HEITSCH, Andrew T. - SMILGIES, Detlef-M. - KORGEL, Brian A. Langmuir-Blodgett Transfer of Nanocrystal Monolayers: Layer Compaction, Layer Compression, and Lattice Stretching of the Transferred Layer. In *NANOMATERIALS*, 2024, vol. 14, no. 14, art. no. 1192. Dostupné na: <https://doi.org/10.3390/nano14141192>, Registrované v: WOS
6. [1.1] POUNGSRIPONG, Peeranuch - BOONPRAB, Theerapoom - HARDING, Phimpaka - MURRAY, Keith S. - PHONSRI, Wasinee - ZHANG, Ningjin - KITCHEN, Jonathan A. - HARDING, David J. Synthesis, mixed-spin-state structure and Langmuir-Blodgett deposition of amphiphilic Fe(sciii/sc) quinolylsalicylaldiminate complexes. In *RSC ADVANCES*, 2024, vol. 14, no. 39, pp. 28716-28723. Dostupné na: <https://doi.org/10.1039/d4ra06111j>, Registrované v: WOS
7. [1.1] SANG, Zhenqi - JIANG, Zhixia - LIU, Sha - YE, Pingyu - HU, Sijing - ZHANG, Qiaoyan - ZHU, Yan - QIN, Luping - ZHAO, Qiming. A green, efficient and stable platform based on hyperbranched quaternized hydrothermal magnetic chitosan nanospheres integrated cytomembranes for screening drug candidates from natural products. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, 2024, vol. 258, no., art. no. 129039. ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2023.129039>, Registrované v: WOS
8. [1.1] SELIVANTEV, Yu. M. - MOROZOV, A. N. - ZAICHENKO, N. L. - LYUBIMOV, A. V. - RAITMAN, O. A. Quantum Chemical Modeling of Optical and Physicochemical Properties of Amphiphilic Spiropyranes. In *PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES*, 2024, vol. 60, no. 1, pp. 110-123. ISSN 2070-2051. Dostupné na: <https://doi.org/10.1134/S2070205124701521>, Registrované v: WOS
9. [1.1] SICILIANO, Giulia - ALSADIG, Ahmed - CHIRIACO, Maria Serena - TURCO, Antonio - FOSCARINI, Alessia - FERRARA, Francesco - GIGLI, Giuseppe - PRIMICERI, Elisabetta. Beyond traditional biosensors: Recent advances in gold nanoparticles modified electrodes for biosensing applications. In *TALANTA*, 2024, vol. 268, no., art. no. 125280. ISSN 0039-9140. Dostupné na: <https://doi.org/10.1016/j.talanta.2023.125280>, Registrované v: WOS

ADCA79

BODIK, Michal** - KRAJČÍKOVÁ, Daniela - HAGARA, Jakub - MAJKOVÁ, Eva - BARÁK, Imrich** - ŠIFFALOVÍČ, Peter. Diffraction pattern of *Bacillus subtilis* CotY spore coat protein 2D crystals. In *Colloids and Surfaces B - Biointerfaces*, 2021, vol. 197, art. no. 111425. (2020: 5.268 - IF, Q1 - JCR, 0.939 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0927-7765. Dostupné na: <https://doi.org/10.1016/j.colsurfb.2020.111425>

Citácie:

1. [1.1] LIU, Shijie - ZHU, Yaodi - ZHAO, Lijun - LI, Miaoyun - LIANG, Dong -

LI, Mengya - ZHAO, Gaiming - MA, Yangyang - TU, Qiancheng. Characteristic substance analysis and rapid detection of bacteria spores in cooked meat products by surface enhanced Raman scattering based on Ag@AuNP array substrate. In *ANALYTICA CHIMICA ACTA*, 2024, vol. 1308, no., art. no. 342616. ISSN 0003-2670. Dostupné na: <https://doi.org/10.1016/j.aca.2024.342616>, Registrované v: WOS

ADCA80

BODIK, Michal** - SOJKOVÁ, Michaela - HULMAN, Martin - ŤAPAJNA, Milan - TRUCHLY, Martin - VÉGSÖ, Karol - JERSEL, Matej - MAJKOVÁ, Eva - ŠPANKOVÁ, Marianna** - ŠIFFALOVÍČ, Peter. Friction control by engineering the crystallographic orientation of the lubricating few-layer MoS₂ films. In *Applied Surface Science*, 2021, vol. 540, part 1, art. no. 148328. (2020: 6.707 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2020.148328>

Citácie:

1. [1.1] DEMCHENKO, Hanna - FYNBO, Cecilie - HUSS-HANSEN, Mathias K. - KJELSTRUP-HANSEN, Jakob - KNAAPILA, Matti. Naphthyl end-capped bithiophene film on plant-based polyamide-4,10. In *THIN SOLID FILMS*, 2024, vol. 788, no., art. no. 140170. ISSN 0040-6090. Dostupné na: <https://doi.org/10.1016/j.tsf.2023.140170>, Registrované v: WOS

2. [1.1] LIU, Jiacheng - KURE-CHU, Song-Zhu - KATSUTA, Shuji - ZHANG, Mengmeng - FANG, Shaoli - MATSUBARA, Takashi - SAKURAI, Yoko - HIHARA, Takehiko - BAUGHMAN, Ray H. - YASHIRO, Hitoshi - PAN, Long - ZHANG, Wei - SUN, Zheng Ming. Tenfold Enhancement of Wear Resistance by Electrosynthesis of a Nanostructured Self-Lubricating Al₂O₃/SnS-MoS₂ Composite Film on Al-Si-Cu Casting Alloys. In *SMALL STRUCTURES*, 2024, vol. 5, no. 10. Dostupné na: <https://doi.org/10.1002/sstr.202400172>, Registrované v: WOS

3. [1.1] LIU, Jian - YAN, Zhen - HAO, Junying - LIU, Weimin. The influence of proton radiation on the friction and wear of Ti:WS₂/P201 composite lubricating materials for space application. In *WEAR*, 2024, vol. 538, no., art. no. 205190. ISSN 0043-1648. Dostupné na: <https://doi.org/10.1016/j.wear.2023.205190>, Registrované v: WOS

4. [1.1] RAGHUNATHAN, Vijay - SATHYAMOORTHY, G. - AYYAPPAN, Vinod - SRISUK, Rapeeporn - SINGARAVELU, D. Lenin - RANGAPPA, Sanjay Mavinkere - SIENGCHIN, Suchart. Advances in brake friction materials: A comprehensive review of ingredients, processing methods, and performance characteristics. In *JOURNAL OF VINYL & ADDITIVE TECHNOLOGY*, 2024, vol. 30, no. 6, pp. 1396-1431. ISSN 1083-5601. Dostupné na: <https://doi.org/10.1002/vnl.22149>, Registrované v: WOS

5. [1.1] REN, Anhua - KANG, Min - FU, Xiuqing - ZHANG, Fan - YANG, Wanting - PAN, Tianyu. Preparation of Ni-B composite coating doped with hydrothermally modified synthetic WC@MoS₂ powders via ultrasonic-assisted jet electrodeposition for corrosion protection. In *SURFACES AND INTERFACES*, 2024, vol. 44, no., art. no. 103674. ISSN 2468-0230. Dostupné na: <https://doi.org/10.1016/j.surfin.2023.103674>, Registrované v: WOS

6. [1.1] XIONG, Liangliang - WU, Mengxue - FAN, Xiaoqiang - ZHU, Minhao. Study on the preparation and fretting behavior of bonded oriented MoS₂ solid lubricant coating. In *FRICITION*, 2024, vol. 12, no. 11, pp. 2505-2518. ISSN 2223-7690. Dostupné na: <https://doi.org/10.1007/s40544-024-0895-2>, Registrované v: WOS

7. [1.2] DU, Juan - SUN, Tao - ZHU, Kai - FAN, Xiaoqiang - ZHU, Minhao. Tribological and Fatigue Properties of Molybdenum Disulfide Film Reinforced

Ultra-high Strength Stainless Steel. In *Surface Technology*, 2024-08-01, 53, 15, pp. 45-56. Dostupné na: <https://doi.org/10.16490/j.cnki.issn.1001-3660.2024.15.004>, Registrované v: SCOPUS

8. [1.2] SHARMA, Shweta - LATE, Dattatray J. Molybdenum Disulfide (MoS₂) as an Efficient Solid Lubricant. In *Materials Horizons from Nature to Nanomaterials*, 2024-01-01, part F3765, pp. 79-103. ISSN 25245384. Dostupné na: https://doi.org/10.1007/978-981-97-7367-1_7, Registrované v: SCOPUS

9. [1.2] ZHENRONG, G. A.O. - GUOYUAN, H. O.U. - SIMING, R. E.N. Structure Design and Tribological Properties of MoS₂/Ti-WC Nano-multilayer Films with Environmental Adaptability in Wide Temperature Range. In *Surface Technology*, 2024-06-01, 53, 11, pp. 80-170. Dostupné na: <https://doi.org/10.16490/j.cnki.issn.1001-3660.2024.11.007>, Registrované v: SCOPUS

ADCA81

BOHÁČ, Vlastimil - GUSTAVSSON, Mattias K. - KUBIČÁR, Ľudovít - GUSTAFSSON, Silas E. Parameter estimations for measurements of thermal transport properties with the hot disk thermal constants analyzer. In *Review of Scientific Instruments*, 2000, vol. 71, no. 6, p. 2452-2455. (1999: 1.293 - IF, karentované - CCC). (2000 - Current Contents, SCOPUS). ISSN 0034-6748.

Citácie:

1. [1.1] AYED, Rabeb - BOUADILA, Salwa - LAZAAR, Mariem - DELLAGI, Amira - CABEZA, Luisa F. Improving the thermal and mechanical performance of cement-based mortars for reinforcing masonry structures: computational and experimental methods. In *ENERGY EFFICIENCY*, 2024, vol. 17, no. 7, art. no. 80. ISSN 1570-646X. Dostupné na: <https://doi.org/10.1007/s12053-024-10263-4>, Registrované v: WOS

2. [1.1] BAUZIN, JeanGabriel - LARAQI, Najib. New thermal analysis of the hot disc method based on explicit analytical developments. In *INTERNATIONAL JOURNAL OF THERMAL SCIENCES*, 2024, vol. 195, no., art. no. 108645. ISSN 1290-0729. Dostupné na: <https://doi.org/10.1016/j.ijthermalsci.2023.108645>, Registrované v: WOS

3. [1.1] DELLAGI, Amira - AYED, Rabeb - SKOURI, Safa - BOUADILA, Salwa - GUIZANI, Amenallah. Analyzing recycled waste-infused mortars: Preparation and Examination of thermal, mechanical, and chemical characteristics. In *CONSTRUCTION AND BUILDING MATERIALS*, 2024, vol. 425, no., art. no. 135996. ISSN 0950-0618. Dostupné na: <https://doi.org/10.1016/j.conbuildmat.2024.135996>, Registrované v: WOS

4. [1.1] GROCHOWSKA, Natalia - CZAJKA, Anna - KUBIS, Michal - JAMROZ, Jan - DYDEK, Kamil - WIECINSKI, Piotr - SZEWCZYK-LAGODZINSKA, Matylda - WISNIEWSKI, Tomasz - RYSZKOWSKA, Joanna - LAPINSKA, Anna - PLICHTA, Andrzej. Effect of PLA stereocomplex crystallization on the thermal conductivity of its composites with graphene nanoplatelets. In *JOURNAL OF POLYMER RESEARCH*, 2024, vol. 31, no. 12, art. no. 376. ISSN 1022-9760. Dostupné na: <https://doi.org/10.1007/s10965-024-04221-y>, Registrované v: WOS

5. [1.1] JIA, Zhijie - YANG, Liping - CAO, Chengcheng - LI, Huidong - LUO, Caiyun - TAO, Ye - ZHONG, Qiu - XU, Zijun - CHEN, Zezhong. Automatic Algorithm Applied for Calculating Thermal Conductivity by Transient Plane Source Method. In *SAINS MALAYSIANA*, 2024, vol. 53, no. 10, pp. 3487-3497. ISSN 0126-6039. Dostupné na: <https://doi.org/10.17576/jsm-2024-5310-21>, Registrované v: WOS

6. [1.1] LIU, Jia - WANG, Liang - LIU, Guang-Bo - FAN, Li-Wu. Determination on the inherent thermal conductivity and thermal contact resistance of individual thin-layer materials in Li-ion batteries. In *INTERNATIONAL JOURNAL OF*

HEAT AND MASS TRANSFER, 2024, vol. 230, no., art. no. 125741. ISSN 0017-9310. Dostupné na: <https://doi.org/10.1016/j.ijheatmasstransfer.2024.125741>, Registrované v: WOS

7. [1.1] MALINARIC, Svetozar - BOKES, Peter - BULATOVIC, Goran. A New Numerically Improved Transient Technique for Measuring Thermal Properties of Anisotropic Materials. In THERMO, 2024, vol. 4, no. 3, pp. 394-406. Dostupné na: <https://doi.org/10.3390/thermo4030021>, Registrované v: WOS

8. [1.1] MENG, Hongxu - YU, Xinxin - CHEN, Bonan - REN, Pengyuan - ZHAO, Jingyao. Parameter Estimations on Measurement Accuracy for Thermal Conductivity of Wood Using the Transient Plane Source Method. In FORESTS, 2024, vol. 15, no. 10, art. no. 1820. Dostupné na: <https://doi.org/10.3390/f15101820>, Registrované v: WOS

9. [1.1] THAKKAR, Swapneel Vijay - NABIYEVA, Turkan - WEINBACH, Quentin - BHATIA, Harsh - LIU, Zilu - FERTE, Tom - LEUVREY, Cedric - CARVALHO, Alain - SCHROEDER, Bob C. - BINIEK, Laure. N-type thermoelectric bulk composite based on poly (nickel-ethylenetetrathiolate): The positive effect of porosity on decreasing thermal conductivity. In POLYMER, 2024, vol. 296, no., art. no. 126761. ISSN 0032-3861. Dostupné na: <https://doi.org/10.1016/j.polymer.2024.126761>, Registrované v: WOS

10. [1.1] ZENG, Zijin - MUELLER, Christian - MIHIRETIE, Besira. Extending the Transient Plane Source Scanning method for determining the specific heat capacity of low thermal conductivity materials through a numerical study. In THERMOCHIMICA ACTA, 2024, vol. 742, no., art. no. 179883. ISSN 0040-6031. Dostupné na: <https://doi.org/10.1016/j.tca.2024.179883>, Registrované v: WOS

11. [1.1] ZHANG, Jing - SU, Guofeng - CHEN, Tao. Estimating temperature-dependent thermal conductivity of copper oxide using an inverse method. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 2024, vol. 149, no. 21, pp. 11777-11791. ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/s10973-024-13445-5>, Registrované v: WOS

12. [1.2] ARMAGHANI, Taher - GHASEMIASL, Ramin. Thermal Properties of Nanofluids. In Thermal Properties of Nanofluids, 2024-01-01, pp. 1-330. ISBN [9781032664064, 9781040145807]. Dostupné na: <https://doi.org/10.1201/9781032664118>, Registrované v: SCOPUS

13. [1.2] JANNOT, Yves - DEGIOVANNI, Alain. Thermal Properties Measurement of Materials. In Thermal Properties Measurement of Materials, 2024-01-01, pp. 1-416. ISBN [9781394325535, 9781394335084]. Dostupné na: <https://doi.org/10.1002/9781394335084>, Registrované v: SCOPUS

ADCA82

BONANOME, M. - BUŽEK, Vladimír - HILLERY, M. - ZIMAN, Mário. Toward protocols for quantum-ensured privacy and secure voting. In Physical Review A, 2011, vol. 84, no. 2, art. no. 022331. (2010: 2.861 - IF, Q1 - JCR, 2.400 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.84.022331>

Citácie:

1. [1.1] LIU, Bai - GUO, Kuikui - ZHU, Pengda - ZHANG, Jun. A Secure Voting Scheme Based on Quantum Walk. In ADVANCED INTELLIGENT COMPUTING TECHNOLOGY AND APPLICATIONS, PT X, ICIC 2024, 2024, vol. 14871, no., pp. 181-193. ISSN 0302-9743. Dostupné na: https://doi.org/10.1007/978-981-97-5609-4_14, Registrované v: WOS

2. [1.1] WANG, Bing - GONG, Li-Hua - LIU, San-Qiu. Multi-party semi-quantum private comparison protocol of size relation based on two-dimensional Bell states. In CHINESE PHYSICS B, 2024, vol. 33, no. 11, art. no. 110303. ISSN 1674-1056. Dostupné na: <https://doi.org/10.1088/1674-1056/ad73ae>, Registrované v: WOS

- ADCA83 BOUDA, J. - BUŽEK, Vladimír. Entanglement swapping between multi-qudit systems. In Journal of Physics A, 2001, vol. 34, no. 20, p. 4301-4311. ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/0305-4470/34/20/304>
Citácie:
1. [1.1] KARIMIPOUR, Vahid. Noisy Landau-Streater and Werner-Holevo channels in arbitrary dimensions. In PHYSICAL REVIEW A, 2024, vol. 110, no. 2, art. no. 022424. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.022424>, Registrované v: WOS
2. [1.1] ROOFER, Shayan - KARIMIPOUR, Vahid. Noisy Werner-Holevo channel and its properties. In PHYSICAL REVIEW A, 2024, vol. 109, no. 5, art. no. 052620. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.052620>, Registrované v: WOS
- ADCA84 BOUDA, J. - PIVOLUSKA, M. - PLESCH, Martin - WILMOTT, C. Weak randomness seriously limits the security of quantum key distribution. In Physical Review A, 2012, vol. 86, no. 6, art. no. 062308. (2011: 2.878 - IF, Q1 - JCR, 2.316 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.86.062308>
Citácie:
1. [1.2] KARERA, Kashish - KHAN, Areej - TARIQ, Humanyou - NADEEM, Mantasha - ZAFAR, Roohi - KAMRAN, Muhammad - KHAN, Muhammad Mubashir. Construction of a Quantum Random Number Generator. In 2024 4th International Conference on Innovations in Computer Science Iconics 2024, 2024-01-01, pp. ISBN [9798331504342]. Dostupné na: <https://doi.org/10.1109/ICONICS64289.2024.10824418>, Registrované v: SCOPUS
- ADCA85 BRAUNSTEIN, S.L. - BUŽEK, Vladimír - HILLERY, M. Quantum-information distributors: Quantum network for symmetric and asymmetric cloning in arbitrary dimension and continuous limit. In Physical Review A, 2001, vol. 63, no. 5, art. no. 052313. (2000: 2.684 - IF). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.63.052313>
Citácie:
1. [1.1] GIRLING, Matthew - CIRSTOIU, Cristina - JENNINGS, David. Simple formulation of no-cloning and no-hiding that admits efficient and robust verification. In PHYSICAL REVIEW RESEARCH, 2024, vol. 6, no. 2, art. no. 023090. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.023090>, Registrované v: WOS
2. [1.1] KHANNA, Shashaank - HALDER, Saronath - SEN, Ujjwal. Quantum entanglement percolation under a realistic restriction. In PHYSICAL REVIEW A, 2024, vol. 109, no. 1, art. no. 012419. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.012419>, Registrované v: WOS
- ADCA86 BRAVYI, S. - CAHA, Libor - MOVASSAGH, R. - NAGAJ, Daniel - SHOR, P. Criticality without frustration for quantum spin-1 chains. In Physical Review Letters, 2012, vol. 109, no. 20, art. no. 207202. (2011: 7.370 - IF, Q1 - JCR, 6.314 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.109.207202>
Citácie:
1. [1.1] BALASUBRAMANIAN, Shankar - GOPALAKRISHNAN, Sarang - KHUDOROZHKOVA, Alexey - LAKE, Ethan. Glassy Word Problems: Ultraslow Relaxation, Hilbert Space Jamming, and Computational Complexity. In PHYSICAL REVIEW X, 2024, vol. 14, no. 2, art. no. 021034. ISSN 2160-3308. Dostupné na: <https://doi.org/10.1103/PhysRevX.14.021034>, Registrované v: WOS
2. [1.1] IWAKI, Atsushi - HOTTA, Chisa. Sample complexity of matrix product

states at finite temperature. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 22, art. no. 224410. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.224410>, Registrované v: WOS

3. [1.1] KLOCKE, K. - MOORE, J. E. - BUCHHOLD, M. Power-Law Entanglement and Hilbert Space Fragmentation in Nonreciprocal Quantum Circuits. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 7, art. no. 070401. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.070401>, Registrované v: WOS

4. [1.1] LATORRE, Jose - SIERRA, German. The $c d$ conjecture. In *JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT*, 2024, vol. 2024, no. 11, art. no. 113103. ISSN 1742-5468. Dostupné na: <https://doi.org/10.1088/1742-5468/ad8f2d>, Registrované v: WOS

5. [1.1] VOINEA, Cristian - PU, Songyang - KIRMANI, Ammar - GHAEMI, Pouyan - RAHMANI, Armin - PAPIC, Zlatko. Deformed Fredkin model for the $\nu = 5/2$ Moore-Read state on thin cylinders. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 1, art. no. 13105. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.013105>, Registrované v: WOS

6. [1.1] ZHANG, Zhao - KLICH, Israel. Quantum lozenge tiling and entanglement phase transition. In *QUANTUM*, 2024, vol. 8, no., art. no. 1497. ISSN 2521-327X., Registrované v: WOS

7. [1.2] SAITO, Hidehiro - HOTTA, Chisa. Exact Matrix Product States at the Quantum Lifshitz Tricritical Point in a Spin- $1/2$ Zigzag-Chain Antiferromagnet with Anisotropic Γ Term. In *Physical Review Letters*, 2024-04-19, 132, 16, pp. ISSN 00319007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.166701>, Registrované v: SCOPUS

ADCA87

BRISCOE, A.D.** - PAGE, R.D. - UUSITALO, J. - JOSS, D.T. - ALAQEEL, M.A.M. - ALAYED, B. - ANDEL, B. - ANTALIC, S. - AURANEN, K. - AYATOLLAHZADEH, H. - BADRAN, H. - BARBER, L. - BEETON, G. - BÍROVÁ, Monika - BOGDANOFF, V. - CLARK, R.M. - CUBISS, J.G. - CULLEN, D.M. - DEARY, J. - FORSBERG, U. - GRAHN, T. - GREENLEES, P.T. - HILTON, J.B. - ILLANA, A. - JOUKAINEN, H. - JUDSON, D.S. - JULIN, R. - JUTILA, H. - KEATINGS, J.M. - LABICHE, M. - LEINO, M. - LEWIS, M.C. - LOUKO, J. - LUOMA, M. - MARTEL, I. - MCCARTER, A. - MCKEE, P.P. - MOSAT, P. - NATHANIEL, S.N. - NEUVONEN, O. - O'DONNELL, D. - OJALA, J. - PAGE, C.A.A. - PLAZA, A.M. - PAKARINEN, J. - PAPADAKIS, P. - PARR, E. - PARTANEN, J. - RAHKILA, P. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - SAYGI, B. - SMALLCOMBE, J. - SMITH, J.F. - SORRI, J. - SULLIVAN, C.M. - SZWEC, S. - TANN, H. - TOLOSA-DELGADO, A. - UUSIKYLÄ, E. - VENHART, Martin - WARING, L.J. - ZIMBA, G. Decay spectroscopy at the two-proton drip line: Radioactivity of the new nuclides 160Os and 156W. In *Physics Letters B : Nuclear, Elementary Particle and High-Energy Physics*, 2023, vol. 847, art. no. 138310. (2022: 4.3 - IF, Q1 - JCR, 1.704 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2023.138310>

Citácie:

1. [1.1] THOENNESSEN, M. 2023 update of the discoveries of nuclides. In *INTERNATIONAL JOURNAL OF MODERN PHYSICS E*, 2024, vol. 33, no. 03N04, art. no. 2430001. ISSN 0218-3013. Dostupné na: <https://doi.org/10.1142/S0218301324300017>, Registrované v: WOS

2. [1.1] THOENNESSEN, Michael - GADE, Alexandra. Isotope facilities aim to complete the nuclear chart. In *NATURE PHYSICS*, 2024, vol. 20, no. 12, pp. 1844-1845. ISSN 1745-2473. Dostupné na: <https://doi.org/10.1038/s41567-024->

02719-2, Registrované v: WOS

3. [1.1] YANG, H. B. - GAN, Z. G. - LI, Y. J. - LIU, M. L. - XU, S. Y. - LIU, C. - ZHANG, M. M. - ZHANG, Z. Y. - HUANG, M. H. - YUAN, C. X. - WANG, S. Y. - MA, L. - WANG, J. G. - HAN, X. C. - ROHILLA, A. - ZUO, S. Q. - XIAO, X. - ZHANG, X. B. - ZHU, L. - YUE, Z. F. - TIAN, Y. L. - WANG, Y. S. - YANG, C. L. - ZHAO, Z. - HUANG, X. Y. - LI, Z. C. - SUN, L. C. - WANG, J. Y. - YANG, H. R. - LU, Z. W. - YANG, W. Q. - ZHOU, X. H. - HUANG, W. X. - WANG, N. - ZHOU, S. G. - REN, Z. Z. - XU, H. S. *Discovery of New Isotopes SUP160/SUPOs and SUP156/SUPW: Revealing Enhanced Stability of the N=82 Shell Closure on the Neutron-Deficient Side. In PHYSICAL REVIEW LETTERS, 2024, vol. 132, no. 7, art. no. 072502. ISSN 0031-9007. Dostupné na:*

<https://doi.org/10.1103/PhysRevLett.132.072502>, Registrované v: WOS

ADCA88

BRISELET, R. - CH. THEISEN** - SULIGNANO, B. - AIRIAU, M. - AURANEN, K. - COX, D. M. - DÉCHERY, F. - DROUART, A. - FAVIER, Z. - GALL, B. - GOIGOUX, T. - GRAHN, T. - GREENLEES, P. T. - HAUSCHILD, K. - HERZÁŇ, Andrej - HERZBERG, R.-D. - JAKOBSSON, U. - JULIN, R. - JUUTINEN, S. - KONKI, J. - LEINO, M. - LOPEZ-MARTENS, A. - MISTRY, A. - NIEMINEN, P. - PAKARINEN, J. - PAPADAKIS, P. - PEURA, P. - REY-HERME, E. - RAHKIL, P. - RUBERT, J. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - SCHOLEY, C. - SORRI, J. - STOLZE, S. - UUSITALO, J. - VANDEBROUCK, M. - WARD, A. - ZIELINSKA, M. - BALLY, B. - BENDER, M. - RYSENS, W. *In-beam γ -ray and electron spectroscopy of $^{249,251}\text{Md}$. In Physical Review C, 2020, vol. 102, no. 1, art. no. 014307. (2019: 2.988 - IF, Q2 - JCR, 1.270 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.102.014307>*

Citácie:

1. [1.1] ACKERMANN, D. - ANTALIC, S. - HESSBERGER, F. P. *Isomers in superheavy nuclei. In EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, 2024, vol. 233, no. 5, pp. 1017-1036. ISSN 1951-6355. Dostupné na:*

<https://doi.org/10.1140/epjs/s11734-024-01150-1>, Registrované v: WOS

2. [1.1] NESARAJA, C. D. *Nuclear Data Sheets for A=249. In NUCLEAR DATA SHEETS, 2024, vol. 195, no., pp. 718-844. ISSN 0090-3752. Dostupné na:*

<https://doi.org/10.1016/j.nds.2024.04.003>, Registrované v: WOS

ADCA89

BRISELET, R. - THEISEN, Ch.** - VANDEBROUCK, M. - MARCHIX, A. - AIRIAU, M. - AURANEN, K. - BADRAN, H. - BOILLEY, D. - CALVERLEY, T. - COX, D. - DÉCHERY, F. - DEFRANCHI BISSO, F. - DROUART, A. - GALL, B. - GOIGOUX, T. - GRAHN, T. - GREENLEES, P. T. - HAUSCHILD, K. - HERZÁŇ, Andrej - HERZBERG, R. D. - JAKOBSSON, U. - JULIN, R. - JUUTINEN, S. - KONKI, J. - LEINO, M. - LIGHTFOOT, A. - LOPEZ-MARTENS, A. - MISTRY, A. - NIEMINEN, P. - PAKARINEN, J. - PAPADAKIS, P. - PARTANEN, J. - PEURA, P. - RAHKILA, P. - RUBERT, J. - RUOTSALAINEN, P. - SANDZELIUS, M. - SAREN, J. - SCHOLEY, C. - SORRI, J. - STOLZE, S. - SULIGNANO, B. - UUSITALO, J. - WARD, A. - ZIELINSKA, M. *Production cross section and decay study of ^{243}Es and ^{249}Md . In Physical Review C, 2019, vol. 99, no. 2, art. no. 024614. (2018: 3.132 - IF, Q2 - JCR, 1.502 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.99.024614>*

Citácie:

1. [1.1] ACKERMANN, D. - ANTALIC, S. - HESSBERGER, F. P. *Isomers in superheavy nuclei. In EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, 2024, vol. 233, no. 5, pp. 1017-1036. ISSN 1951-6355. Dostupné na:*

<https://doi.org/10.1140/epjs/s11734-024-01150-1>, Registrované v: WOS

2. [1.1] KHUYAGBAATAR, J. - CANTEMIR, R. A. - DUELLMANN, Ch. E. - JAEGER, E. - KINDLER, B. - KRIER, J. - KURZ, N. - LOMMEL, B. - SCHAUSTEN, B. - YAKUSHEV, A. Decay properties of the neutron-deficient isotope ^{242}Es . In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 3, art. no. 034311. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.034311>, Registrované v: WOS
3. [1.1] NESARAJA, C. D. Nuclear Data Sheets for $A=249$. In *NUCLEAR DATA SHEETS*, 2024, vol. 195, no., pp. 718-844. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.04.003>, Registrované v: WOS
4. [1.1] VINODKUMAR, A. M. - SANILA, S. - BABU, B. R. S. Study of evaporation residue cross-sections for the $m_{\text{mml}}:m_{\text{sup}}32/m_{\text{mml}}:m_{\text{sup}}m_{\text{mml}}:m_{\text{style}}S/m_{\text{mml}}:m_{\text{style}}+m_{\text{mml}}:m_{\text{sup}}182,184/m_{\text{mml}}:m_{\text{sup}}W$ reactions. In *INTERNATIONAL JOURNAL OF MODERN PHYSICS E*, 2024, vol. 33, no. 12, art. no. 2450056. ISSN 0218-3013. Dostupné na: <https://doi.org/10.1142/S0218301324500563>, Registrované v: WOS

ADCA90 BRNDIAR, Ján - MARKOŠ, Peter. Universality of the metal-insulator transition in three-dimensional disordered systems. In *Physical Review B*, 2006, vol. 74, no. 15, art. no. 153103. Dostupné na: <https://doi.org/10.1103/PhysRevB.74.153103>

Citácie:

1. [1.1] THOMPSON, Foster - HUANG, Yi - KAMENEV, Alex. Localization of Lindbladian fermions. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 17, art. no. 174201. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.174201>, Registrované v: WOS

ADCA91 BRNDIAR, Ján - ŠTICH, Ivan. van der Waals Interaction Energies of Small Fragments of P, As, Sb, S, Se, and Te: Comparison of Complete Basis Set Limit CCSD(T) and DFT with Approximate Dispersion. In *Journal of Chemical Theory and Computation*, 2012, vol. 8, no. 7, p. 2301-2309. (2011: 5.215 - IF, Q1 - JCR, 2.770 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1549-9618. Dostupné na: <https://doi.org/10.1021/ct300258z>

Citácie:

1. [1.1] LU, Xiaoyue - LU, Ping - WEI, Yuyu - ZHU, Chenxi - SU, Hong - QIU, Xianxiu - FENG, Sheng - QIU, Pengfei - SHI, Xun - CHEN, Lidong - XU, Fangfang. Micromechanism for Copper-Deficiency Enhanced Stability: A Quasi In Situ TEM Study of Electric-Induced Structural Evolution in $\text{Cu}_{2-x}(\text{S}, \text{Se})$ Liquid-Like Thermoelectric Materials. In *NANO LETTERS*, 2024, vol. 24, no. 9, pp. 2853-2860. ISSN 1530-6984. Dostupné na: <https://doi.org/10.1021/acs.nanolett.3c05087>, Registrované v: WOS

ADCA92 BROMMER, P. - GAEHLER, F. - MIHALKOVIČ, Marek. Ordering and correlation of cluster orientations in CaCd_6 . In *Philosophical Magazine*, 2007, vol. 87, no. 18-21, p. 2671-2677. (2006: 1.354 - IF, Q1 - JCR, 1.177 - SJR, Q1 - SJR). ISSN 1478-6435. Dostupné na: <https://doi.org/10.1080/14786430701361370>

Citácie:

1. [1.1] WAKAI, Hayato - SEKO, Atsuto - IZUTA, Hirosato - NISHIYAMA, Takayuki - TANAKA, Isao. Predictive power of polynomial machine learning potentials for liquid states in 22 elemental systems. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 21, art. no. 214207. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.214207>, Registrované v: WOS

ADCA93 BRONIS, A.** - HEßBERGER, F. P. - ANTALIC, S. - ANDEL, B. - ACKERMANN, D. - HEINZ, S. - HOFMANN, S. - KHUYAGBAATAR, J. - KINDLER, B. - KOJOUHAROV, I. - KUUSINIEMI, P. - LEINO, M. - LOMMEL, B. - MANN, R. - NISHIO, K. - POPEKO, A. G. - STREICHER, B. - SULIGNANO, B. - UUSITALO, J. - VENHART, Martin - YEREMIN, A. V. Decay studies of new

isomeric states in ²⁵⁵No. In *Physical Review C*, 2022, vol. 106, no. 1, art. no. 014602. (2021: 3.199 - IF, Q2 - JCR, 1.317 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.106.014602>

Citácie:

1. [1.1] MINATO, Futoshi - IWAMOTO, Osamu. Fission fragment yields of ²³⁵U/²³⁸U(nth, f) evaluated with the CCONE code system. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 5, art. no. 054311. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.054311>, Registrované v: WOS

2. [1.1] ROGOV, I. S. - ADAMIAN, G. G. - V. ANTONENKO, N. Spontaneous fission and α decay from K-isomeric states within a cluster approach. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 1, art. no. 014606. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.014606>, Registrované v: WOS

3. [1.1] WALKER, P. M. - KONDEV, F. G. K isomers in atomic nuclei. In *EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS*, 2024, vol. 233, no. 5, pp. 983-1005. ISSN 1951-6355. Dostupné na: <https://doi.org/10.1140/epjs/s11734-024-01096-4>, Registrované v: WOS

ADCA94 BRUNEL, M. - ENZO, S. - JERGEL, Matej - MAJKOVÁ, Eva - VÁVRA, Ivo. Structural characterization and thermal-stability of W/Si multilayers. In *Journal of Materials Research*, 1993, vol. 8, no. 10, p. 2600-2607. ISSN 0884-2914. Dostupné na: <https://doi.org/10.1557/JMR.1993.2600>

Citácie:

1. [1.1] RAMPINI, D.S. - YUNG, C.S. - ORIPOV, B.G. - WOODS, S. - LEHMAN, J. - NAM, S.W. - MCCAUGHAN, A.N. Integration of vertically-aligned carbon nanotubes with superconducting nanowire single photon detectors. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. ISSN 0953-2048, JAN 1 2024, vol. 37, no. 1, art. no. 015005. Dostupné na: <https://doi.org/10.1088/1361-6668/ad0db3>, Registrované v: WOS

ADCA95 BRUNOVÁ, Alica - VÉGSÖ, Karol - NÁDAŽDY, Vojtech - NÁDAŽDY, Peter - SUBAIR, Riyas - JERGEL, Matej - MAJKOVÁ, Eva - PANDIT, Pallavi - ROTH, Stephan V. - KRASNANSKY, Alexander - HINDERHOFER, Alexander - SCHREIBER, Frank - TIAN, Jianjun - ŠIFFALOVIC, Peter**. Structural and trap-state density enhancement in flash-infrared annealed Perovskite layers. In *Advanced Materials Interfaces*, 2021, vol. 8, no. 14, art. no. 2100355. (2020: 6.147 - IF, Q2 - JCR, 1.671 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2196-7350. Dostupné na: <https://doi.org/10.1002/admi.202100355>

Citácie:

1. [1.1] WANG, L.X. - SONG, Y.L. - WANG, J. - BI, W.H. - DING, L. - LIU, H. - YANG, X.Y. - WANG, Y.Q. - YUAN, S. - DONG, Q.F. - YANG, D.R. - FANG, Y.J. Rapid Recovery of Degraded Perovskite Single-Crystal Radiation Detectors via Infrared Healing. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, AUG 12 2024, vol. 16, no. 33, p. 44202-44209. Dostupné na: <https://doi.org/10.1021/acsami.4c06568>, Registrované v: WOS

ADCA96 BUENDIA, G.M. - RIKVOLD, P.A. - KOLESIK, Miroslav. Microstructure and velocity of field-driven solid-on-solid interfaces moving under stochastic dynamics with local energy barriers. In *Physical Review B*, 2006, vol. 73, no. 4, art. no. 045437. (2005: 3.185 - IF, Q1 - JCR, 2.126 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.73.045437>

Citácie:

1. [1.1] AKUTSU, Noriko - KANGAWA, Yoshihiro. Competition between Kardar-

- Parisi-Zhang and Berezinskii-Kosterlitz-Thouless kinetic roughening on (001) singular surface during steady crystal growth. In SCIENTIFIC REPORTS, 2024, vol. 14, no. 1, art. no. 29662. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-79380-5>, Registrované v: WOS*
- ADCA97 BUENDIA, G.M. - RIKVOLD, P.A. - KOLEŠÍK, Miroslav. Field-driven solid-on-solid interfaces moving under a stochastic Arrhenius dynamics: Effects of the barrier height. In Journal of Molecular Structure - Theochem, 2006, vol. 769, no. 1-3, p. 207-210. (2005: 1.045 - IF, Q3 - JCR). ISSN 0166-1280. Dostupné na: <https://doi.org/10.1016/j.theochem.2006.04.031>
- Citácie:
1. [1.1] AKUTSU, Noriko - KANGAWA, Yoshihiro. Competition between Kardar-Parisi-Zhang and Berezinskii-Kosterlitz-Thouless kinetic roughening on (001) singular surface during steady crystal growth. In SCIENTIFIC REPORTS, 2024, vol. 14, no. 1, art. no. 29662. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-79380-5>, Registrované v: WOS
- ADCA98 BULLA, Lukas** - HJORTH, Kristian - KOHOUT, Oskar - LANG, Jan - ECKER, Sebastian - NEUMANN, Sebastian P. - BITTERMANN, Julius - KINDLER, Robert - HUBER, Marcus - BOHMANN, Martin - URSIN, Rupert - PIVOLUSKA, Matej. Distribution of genuine high-dimensional entanglement over 10.2 km of noisy metropolitan atmosphere. In Physical Review A, 2023, vol. 107, no. 5, art. no. L050402. (2022: 2.9 - IF, Q2 - JCR, 1.11 - SJR, Q1 - SJR). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.107.L050402>
- Citácie:
1. [1.1] JIN, Rui-Bo - ZENG, Zi-Qi - YOU, Chenglong - YUAN, Chenzhi. Quantum interferometers: Principles and applications. In PROGRESS IN QUANTUM ELECTRONICS, 2024, vol. 96, no., art. no. 100519. ISSN 0079-6727. Dostupné na: <https://doi.org/10.1016/j.pquantelec.2024.100519>, Registrované v: WOS
2. [1.1] KINDLER, Robert - HANDSTEINER, Johannes - KYSELA, Jaroslav - ZHU, Kuntuo - LIU, Bo - ZEILINGER, Anton. State-independent quantum key distribution. In PHYSICAL REVIEW A, 2024, vol. 109, no. 1, art. no. 012614. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.012614>, Registrované v: WOS
3. [1.1] KLEN, M. - VASYLYEV, D. - VOGEL, W. - SEMENOV, A. A. Time correlations in atmospheric quantum channels. In PHYSICAL REVIEW A, 2024, vol. 109, no. 3, art. no. 033712. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.033712>, Registrované v: WOS
4. [1.1] STATHIS, Aristeidis - NTANOS, Argiris - TOUMASIS, Panagiotis - LYRAS, Nikolaos K. - GIANNOULIS, Giannis - AVRAMOPOULOS, Hercules. Experimental feasibility analysis of quantum/classical coexistence over fibre and free space links. In IET QUANTUM COMMUNICATION, 2024, vol. 5, no. 4, pp. 575-585. Dostupné na: <https://doi.org/10.1049/qtc2.12097>, Registrované v: WOS
5. [1.1] YU, Hao - GOVOROV, Alexander O. - SONG, Hai-Zhi - WANG, Zhiming. Time-encoded photonic quantum states: Generation, processing, and applications. In APPLIED PHYSICS REVIEWS, 2024, vol. 11, no. 4, art. no. 041318. ISSN 1931-9401. Dostupné na: <https://doi.org/10.1063/5.0232085>, Registrované v: WOS
6. [1.2] GIANNOULIS, Giannis - STATHIS, Aristeidis - NTANOS, Argiris - LYRAS, Nikolaos K. - PAPASTAMATIOU, Ilias - KOURELIAS, Panagiotis - PRNJAT, Ognjen - KOUMANTAROS, Kostas - PANAGOPOULOS, Athanasios D. - AVRAMOPOULOS, Hercules. Satellite-to-ground QKD Feasibility Analysis for High Altitude Rural Areas: A Case Study in Greece. In 2024 12th International

BULLA, Lukas** - PIVOLUSKA, Matej - HJORTH, Kristian - KOHOUT, Oskar - LANG, Jan - ECKER, Sebastian - NEUMANN, Sebastian P. - BITTERMANN, Julius - KINDLER, Robert - HUBER, Marcus - BOHMANN, Martin - URSIN, Rupert. Nonlocal Temporal Interferometry for Highly Resilient Free-Space Quantum Communication. In *Physical Review X*, 2023, vol. 13, no. 2, art. no. 021001. (2022: 12.5 - IF, Q1 - JCR, 6.267 - SJR, Q1 - SJR). ISSN 2160-3308. Dostupné na: <https://doi.org/10.1103/PhysRevX.13.021001>

Citácie:

1. [1.1] DIDIER, Pierre - ZAMINGA, Sara - SPITZ, Olivier - WU, Jiagui - AWWAD, Elie - MAISONS, Gregory - GRILLOT, Frederic. Data encryption with chaotic light in the long wavelength infrared atmospheric window. In *OPTICA*, 2024, vol. 11, no. 5, pp. 626-633. ISSN 2334-2536. Dostupné na: <https://doi.org/10.1364/OPTICA.511171>, Registrované v: WOS
2. [1.1] JIN, Rui-Bo - ZENG, Zi-Qi - YOU, Chenglong - YUAN, Chenzhi. Quantum interferometers: Principles and applications. In *PROGRESS IN QUANTUM ELECTRONICS*, 2024, vol. 96, no., art. no. 100519. ISSN 0079-6727. Dostupné na: <https://doi.org/10.1016/j.pquantelec.2024.100519>, Registrované v: WOS
3. [1.1] KLEN, M. - VASYLYEV, D. - VOGEL, W. - SEMENOV, A. A. Time correlations in atmospheric quantum channels. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 3, art. no. 033712. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.033712>, Registrované v: WOS
4. [1.1] LELIGOU, Helen C. - LAKKA, Alexandra - KARKAZIS, Panagiotis A. - COSTA, Joao Pita - TORDERA, Eva Marin - SANTOS, Henrique Manuel Dinis - ROMERO, Antonio Alvarez. Cybersecurity in Supply Chain Systems: The Farm-to-Fork Use Case. In *ELECTRONICS*, 2024, vol. 13, no. 1, art. no. 215. Dostupné na: <https://doi.org/10.3390/electronics13010215>, Registrované v: WOS
5. [1.1] LI, Jiahao - WANG, Xingyu - YU, Huicun - TANG, Jie - LIU, Ying - CAO, Yuexiang - DENG, Zhifeng - WU, Dan - HU, Haoran - WANG, Ya - LUN, Huazhi - ZHANG, Bo - WEI, Jiahua - LIU, Bo - SHI, Lei. State-dependent misalignment and turbulence effects on high-dimensional quantum key distribution with orbital angular momentum. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 5, art. no. 053034. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad49c3>, Registrované v: WOS
6. [1.1] RAFSANJANI, Ali Ayatollah - KAZEMI, MohammadJavad - HOSSEINZADEH, Vahid - GOLSHANI, Mehdi. Non-local temporal interference. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 3615. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-54018-8>, Registrované v: WOS
7. [1.1] SHUKHIN, Anatoly - HURVITZ, Inbar - TRAJTENBERG-MILLS, Sivan - ARIE, Ady - EISENBERG, Hagai. Two-dimensional control of a biphoton joint spectrum. In *OPTICS EXPRESS*, 2024, vol. 32, no. 6, pp. 10158-10174. ISSN 1094-4087. Dostupné na: <https://doi.org/10.1364/OE.510497>, Registrované v: WOS
8. [1.1] SIHARE, Shyam R. Analyzing Quantum Error Resilience for Quantum Communication in Guided and Unguided Media. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 7. Dostupné na: <https://doi.org/10.1002/qute.202400029>, Registrované v: WOS
9. [1.1] YU, Hao - GOVOROV, Alexander O. - SONG, Hai-Zhi - WANG, Zhiming. Time-encoded photonic quantum states: Generation, processing, and applications.

In *APPLIED PHYSICS REVIEWS*, 2024, vol. 11, no. 4, art. no. 041318. ISSN 1931-9401. Dostupné na: <https://doi.org/10.1063/5.0232085>, Registrované v: WOS

10. [1.1] ZHANG, Chengjie - DENKER, Sophia - ASADIAN, Ali - GUEHNE, Otfried. Analyzing Quantum Entanglement with the Schmidt Decomposition in Operator Space. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 4, art. no. 040203. ISSN 0031-9007. Dostupné na:

<https://doi.org/10.1103/PhysRevLett.133.040203>, Registrované v: WOS

11. [1.1] ZHANG, Panpan - XU, Yuliang - HU, Lizhen - KONG, Xiangmu - YAN, Shiwei. Crossover behaviors of entanglement dynamics at the critical point in XXZ spin chain. In *RESULTS IN PHYSICS*, 2024, vol. 57, no., art. no. 107417. ISSN 2211-3797. Dostupné na: <https://doi.org/10.1016/j.rinp.2024.107417>, Registrované v: WOS

12. [1.1] ZHONG, Zhen-Qiu - ZHAN, Xiao-Hai - CHEN, Jia-Lin - WANG, Shuang - YIN, Zhen-Qiang - GENG, Jia-Qi - HE, De-Yong - CHEN, Wei - GUO, Guang-Can - HAN, Zheng-Fu. Hyperentanglement quantum communication over a 50 km noisy fiber channel. In *OPTICA*, 2024, vol. 11, no. 8, pp. 1056-1061. ISSN 2334-2536. Dostupné na: <https://doi.org/10.1364/OPTICA.523955>, Registrované v: WOS

13. [1.2] KINDLER, Robert - HANDSTEINER, Johannes - KYSELA, Jaroslav - ZHU, Kuntuo - LIU, Bo - ZEILINGER, Anton. State-independent quantum key distribution. In *Physical Review A*, 2024-01-01, 109, 1, pp. ISSN 24699926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.012614>, Registrované v: SCOPUS

14. [1.2] MALIK, Mehul. A Roadmap Towards Entanglement Distribution Over Useful Telecom Distances. In *Optical Fiber Communication Conference in Proceedings Optical Fiber Communication Conference Ofc 2024*, 2024-01-01, pp. ISBN [9781957171326]. Dostupné na: <https://doi.org/10.1364/ofc.2024.tu3c.3>, Registrované v: SCOPUS

ADCA100 BUTVIN, Pavol - BUTVINOVÁ, Beata - SILVEYRA, J.M. - CHROMČÍKOVÁ, Mária - JANIČKOVIČ, Dušan - SITEK, J. - ŠVEC, Peter - VLASÁK, Gabriel. Effects of substitution of Mo for Nb on less-common properties of Finemet alloys. In *Journal of Magnetism and Magnetic Materials*, 2010, vol. 322, no. 20, p. 3035-3040. (2009: 1.204 - IF, Q2 - JCR, 0.844 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2010.05.025>

Citácie:

1. [1.1] LUCCHINI, Francesco - TORCHIO, Riccardo - BIANCHI, Nicola. A Survey on the Sustainability of Traditional and Emerging Materials for Next-Generation EV Motors. In *ENERGIES*, 2024, vol. 17, no. 23, art. no. 5861.

Dostupné na: <https://doi.org/10.3390/en17235861>, Registrované v: WOS

ADCA101 BUTVINOVÁ, Beata** - ŠVEC, Peter - GEJDOŠ JANOTOVÁ, Irena - FOS, Alen - MAŤKO, Igor - JANIČKOVIČ, Dušan. Magnetic and structural properties of (Fe-Co)₈₃(Sn-P)₅B₁₂ alloys with high saturation. In *Journal of Magnetism and Magnetic Materials*, 2021, vol. 535, art. no. 168069. (2020: 2.993 - IF, Q2 - JCR, 0.665 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2021.168069>

Citácie:

1. [1.1] CUI, Hongxiang - DONG, Bangshao - XING, Yanxing - WANG, Li - ZHOU, Shaoxiong. Significant improvement of soft magnetic properties for FeCoSiBC amorphous alloy cores by magnetic field annealing. In *JOURNAL OF*

MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 2024, vol. 35, no. 6, art. no. 393. ISSN 0957-4522. Dostupné na: <https://doi.org/10.1007/s10854-024-12136-z>, Registrované v: WOS

2. [1.1] GREY, Daniel G. - CESNEK, Martin - BUJDOS, Marek - MIGLIERINI, Marcel B. Effect of Cobalt on the Microstructure of Fe-B-Sn Amorphous Metallic Alloys. In *METALS*, 2024, vol. 14, no. 6, art. no. 712. Dostupné na: <https://doi.org/10.3390/met14060712>, Registrované v: WOS

3. [1.1] NOORBAKHSH, Reza Zare - OSTOVAN, Farhad - TOOZANDEHJANI, Meysam. Fe-Based Amorphous Alloy Coatings: A Review. In *ADVANCED ENGINEERING MATERIALS*, 2024, vol. 26, no. 11. ISSN 1438-1656. Dostupné na: <https://doi.org/10.1002/adem.202302184>, Registrované v: WOS

ADCA102 BUTVINOVÁ, Beata** - ŠVEC, Peter - GEJDOŠ JANOTOVÁ, Irena - DIAS, Leonardo Viana - JANIČKOVIČ, Dušan - MAŤKO, Igor. Magnetic properties and structure of short-term annealed FeCuBPSi nanocrystalline alloys. In *Journal of Magnetism and Magnetic Materials*, 2024, vol. 590, art. no. 171662. (2023: 2.5 - IF, Q3 - JCR, 0.522 - SJR, Q2 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2023.171662>

Citácie:

1. [1.1] GREY, Daniel G. - CESNEK, Martin - BUJDOS, Marek - MIGLIERINI, Marcel B. Effect of Cobalt on the Microstructure of Fe-B-Sn Amorphous Metallic Alloys. In *METALS*, 2024, vol. 14, no. 6, art. no. 712. Dostupné na: <https://doi.org/10.3390/met14060712>, Registrované v: WOS

ADCA103 BUTVINOVÁ, Beata** - BUTVIN, Pavol - BRZÓZKA, K. - KUZMINSKI, M. - MAŤKO, Igor - ŠVEC, Peter - CHROMČÍKOVÁ, Mária. Effects of surface crystallization and oxidation in nanocrystalline FeNbCuSiB(P) ribbons. In *Journal of Magnetism and Magnetic Materials*, 2017, vol. 424, p. 233-237. (2016: 2.630 - IF, Q2 - JCR, 0.699 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2016.10.068>

Citácie:

1. [1.1] ZHAO, Chengliang - WANG, Anding - PRAVARTHANA, Dhanapal - ZHU, Fan - JIANG, Kemin - HE, Aina - CHANG, Chuntao - WANG, Xinmin - LIU, Chain-Tsuan. Oxide dependent textured crystallization on amorphous alloy surface. In *JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T*, 2024, vol. 28, no., pp. 582-590. ISSN 2238-7854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2023.12.036>, Registrované v: WOS

ADCA104 BUŽEK, Vladimír - HILLERY, M. Optimal manipulations with qubits: Universal quantum entanglers. In *Physical Review A*, 2000, vol. 62, no. 2, art. no. 022303. (2000 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.62.022303>

Citácie:

1. [1.1] HEREDGE, Jamie - HILL, Charles - HOLLENBERG, Lloyd - SEVIOR, Martin. Permutation invariant encodings for quantum machine learning with point cloud data. In *QUANTUM MACHINE INTELLIGENCE*, 2024, vol. 6, no. 1, art. no. 25. ISSN 2524-4906. Dostupné na: <https://doi.org/10.1007/s42484-024-00156-1>, Registrované v: WOS

ADCA105 BUŽEK, Vladimír - KEITEL, C.H. - KNIGHT, P.L. Sampling entropies and operational phase-space measurement. 1. General formalism. In *Physical Review A*, 1995, vol. 51, no. 3, p. 2575-2593. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.51.2575>

Citácie:

1. [1.1] SANCHEZ-CORDOVA, Mar - BERRA-MONTIEL, Jasel. Quantum energy teleportation in phase space quantum mechanics. In *EUROPEAN PHYSICAL JOURNAL PLUS*, 2024, vol. 139, no. 12, art. no. 1106. ISSN 2190-5444. Dostupné na: <https://doi.org/10.1140/epjp/s13360-024-05897-3>, Registrované v: WOS

ADCA106 BUŽEK, Vladimír. Su(1,1) squeezing of su(1,1) generalized coherent states. In *Journal of Modern Optics*, 1990, vol. 37, no. 3, p. 303-316. ISSN 0950-0340. Dostupné na: <https://doi.org/10.1080/09500349014550371>

Citácie:

1. [1.1] BOHLOUL, M. - DEHGHANI, A. - FAKHRI, H. Generating superposition of squeezed states and photon-added squeezed states. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 4, art. no. 045112. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad2f8e>, Registrované v: WOS

2. [1.1] HE, Rui - WU, Ze - FAN, Hongyi. From EPR Wave Function to Bi-Particle Entangled State Representation. In *BRAZILIAN JOURNAL OF PHYSICS*, 2024, vol. 54, no. 6, art. no. 229. ISSN 0103-9733. Dostupné na: <https://doi.org/10.1007/s13538-024-01592-x>, Registrované v: WOS

ADCA107 BUŽEK, Vladimír. The jaynes-cummings model with a q-analog of a coherent state. In *Journal of Modern Optics*, 1992, vol. 39, no. 5, p. 949-959. ISSN 0950-0340. Dostupné na: <https://doi.org/10.1080/09500349214550981>

Citácie:

1. [1.1] ARIKAN, Ali Serdar - ALTINTAS, Azmi Ali - YILMAZ, Yalcin. One-dimensional Infinite Square Well Problem via Two Parameter Deformed Algebra. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 3, art. no. 64. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05603-0>, Registrované v: WOS

2. [1.1] MIRZAEI, S. - CHENAGHLOU, A. - ALISHAMSI, Y. Quantum Features of the Nonlinear Dissipative Cavity Interacting with a Two-Level Atom under the Influence of Stark Shift. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 3, art. no. 62. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05597-9>, Registrované v: WOS

3. [1.1] MIRZAEI, S. - CHENAGHLOU, A. - ALISHAMSI, Y. Thermal Properties of the su(1,1) Jaynes-Cummings Model under the Influence of the Stark Shift. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 9, art. no. 232. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05738-0>, Registrované v: WOS

ADCA108 BUŽEK, Vladimír - KONÔPKA, M. Dynamics of open systems governed by the Milburn equation. In *Physical Review A*, 1998, vol. 58, no. 3, p. 1735-1739. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.58.1735>

Citácie:

1. [1.1] EL ANOUZ, K. - EL-HADIDY, E. G. - METWALLY, N. Fractional Quantum Network. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 4, art. no. 93. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05633-8>, Registrované v: WOS

2. [1.1] MOUSAVI, S. V. - MIRET-ARTES, S. Different theoretical aspects of the intrinsic decoherence in the Milburn formalism. In *EUROPEAN PHYSICAL JOURNAL PLUS*, 2024, vol. 139, no. 10, art. no. 869. ISSN 2190-5444. Dostupné na: <https://doi.org/10.1140/epjp/s13360-024-05654-6>, Registrované v: WOS

3. [1.1] RIZK, S.E. A. - ELKHATEEB, M. M. - HASHEM, M. - OBADA, A.S. F. Analytical solution for Ξ -type qutrit interacting nonlinearly with a cavity field through Kerr-like medium with intrinsic noise present. In *MODERN PHYSICS LETTERS A*, 2024, vol. 39, no. 23N24, art. no. 2450045. ISSN 0217-7323.

- ADCA109 *Dostupné na:* <https://doi.org/10.1142/S0217732324500457>, *Registrované v:* WOS
BUŽEK, Vladimír. Jaynes-Cummings model with intensity-dependent coupling interacting with Holstein-Primakoff SU(1,1) coherent state. In *Physical Review A*, 1989, vol. 39, no. 6, p. 3196-3199. ISSN 1050-2947. *Dostupné na:* <https://doi.org/10.1103/PhysRevA.39.3196>
Citácie:
 1. [1.1] FIROZY, M. - SADEGHI, M. - BOLORIZADEH, M. A. Rotating coherent states in the dispersive regime of the generalized Jaynes-Cummings model. In *OPTICAL AND QUANTUM ELECTRONICS*, 2024, vol. 56, no. 6, art. no. 920. ISSN 0306-8919. *Dostupné na:* <https://doi.org/10.1007/s11082-024-06707-x>, *Registrované v:* WOS
 2. [1.1] MEDINA-DOZAL, L. - URZUA, A. R. - ARANDA-LOZANO, D. - GONZALEZ-GUTIERREZ, C. A. - RECAMIER, J. - ROMAN-ANCHEYTA, R. Spectral response of a nonlinear Jaynes-Cummings model. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 4, art. no. 043703. ISSN 2469-9926. *Dostupné na:* <https://doi.org/10.1103/PhysRevA.110.043703>, *Registrované v:* WOS
 3. [1.1] SON, Jeongrak - NG, Nelly H. Y. Catalysis in action via elementary thermal operations. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 3, art. no. 033029. ISSN 1367-2630. *Dostupné na:* <https://doi.org/10.1088/1367-2630/ad2413>, *Registrované v:* WOS
- ADCA110 BUŽEK, Vladimír - DROBNÝ, Gabriel - KIM, M.S. - ADAM, G. - KNIGHT, P.L. Cavity QED with cold trapped ions. In *Physical Review A*, 1997, vol. 56, no. 3, p. 2352-2360. ISSN 1050-2947.
Citácie:
 1. [1.1] VALADARES, Fernando - HUANG, Ni-Ni - CHU, Kyle Timothy Ng - DOROGOV, Aleksandr - CHUA, Weipin - KONG, Lingda - SONG, Pengtao - GAO, Yvonne Y. On-demand transposition across light-matter interaction regimes in bosonic cQED. In *NATURE COMMUNICATIONS*, 2024, vol. 15, no. 1, art. no. 5816. *Dostupné na:* <https://doi.org/10.1038/s41467-024-50201-7>, *Registrované v:* WOS
- ADCA111 BUŽEK, Vladimír - HILLERY, M. - WERNER, R.F. Optimal manipulations with qubits: Universal-NOT gate. In *Physical Review A*, 1999, vol. 60, no. 4, p. R2626-R2629. ISSN 1050-2947.
Citácie:
 1. [1.1] ADAMI, Christoph. Stimulated emission of radiation and the black hole information problem. In *ANNALS OF PHYSICS*, 2024, vol. 468, no., art. no. 169739. ISSN 0003-4916. *Dostupné na:* <https://doi.org/10.1016/j.aop.2024.169739>, *Registrované v:* WOS
 2. [1.1] CHIRIBELLA, Giulio. Extreme quantum states and processes, and extreme points of general spectrahedra in finite dimensional algebras. In *INTERNATIONAL JOURNAL OF QUANTUM INFORMATION*, 2024, vol. 22, no. 05. ISSN 0219-7499. *Dostupné na:* <https://doi.org/10.1142/S0219749924400045>, *Registrované v:* WOS
 3. [1.1] DATTA, Shounak - MAL, Shiladitya - PATI, Arun K. - MAJUMDAR, A. S. Remote state preparation by multiple observers using a single copy of a two-qubit entangled state. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 2, art. no. 54. ISSN 1570-0755. *Dostupné na:* <https://doi.org/10.1007/s11128-024-04263-7>, *Registrované v:* WOS
 4. [1.1] GAVOROVA, Zuzana - SEIDEL, Matan - TOUATI, Yonathan. Topological obstructions to quantum computation with unitary oracles. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 3, art. no. 032625. ISSN 2469-9926. *Dostupné na:* <https://doi.org/10.1103/PhysRevA.109.032625>, *Registrované v:* WOS

5. [1.1] GUO, Yu - LIU, Zixuan - TANG, Hao - HU, Xiao-Min - LIU, Bi-Heng - HUANG, Yun-Feng - LI, Chuan-Feng - GUO, Guang-Can - CHIRIBELLA, Giulio. Experimental Demonstration of Input-Output Indefiniteness in a Single Quantum Device. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 16, art. no. 160201. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.160201>, Registrované v: WOS
6. [1.1] MAIHEMUTI, Nueraminaimu - PENG, Jiayin - AISAN, Yimamujiang - TANG, Jiangang. Controlled cyclic assisted cloning of arbitrary unknown single-particle states. In *EUROPEAN PHYSICAL JOURNAL PLUS*, 2024, vol. 139, no. 10, art. no. 907. ISSN 2190-5444. Dostupné na: <https://doi.org/10.1140/epjp/s13360-024-05698-8>, Registrované v: WOS
7. [1.1] MAIHEMUTI, Nueraminaimu - PENG, Jiayin - YANG, Zhen - ZHAI, Dengxin - TANG, Jiangang. Controlled and Assisted Cloning of an Arbitrary Unknown States via Maximal Slice States. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 1, art. no. 18. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-023-05536-0>, Registrované v: WOS
8. [1.1] MIYAZAKI, Jisho - AKIBUE, Seiseki. Non-locality of conjugation symmetry: characterization and examples in quantum network sensing. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 5, art. no. 053017. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad4208>, Registrované v: WOS
9. [1.1] NANCY, A. - BALAKRISHNAN, S. Entanglement versus Mixedness: A Study using the Output States of Quantum Deleting Machines. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 10, art. no. 244. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05789-3>, Registrované v: WOS
10. [1.1] PENG, Jia-yin - LEI, Hong-xuan - TANG, Jian-gang. Multi-type-output Assisted Cloning of Unknown Single-qubit States. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 1, art. no. 7. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-023-05538-y>, Registrované v: WOS
11. [1.1] ZHAI, Deng-xin - PENG, Jia-yin - MAIHEMUTI, Nueraminaimu - TANG, Jian-gang. Assisted Cloning of an Arbitrary Unknown d-Dimension State. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 6, art. no. 152. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05694-9>, Registrované v: WOS

ADCA112 BUŽEK, Vladimír - KEITEL, C.H. - KNIGHT, P.L. Sampling entropies and operational phase-space measurement. 2. Detection of quantum coherences. In *Physical Review A*, 1995, vol. 51, no. 3, p. 2594-2601. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.51.2594>

Citácie:

1. [1.1] SANCHEZ-CORDOVA, Mar - BERRA-MONTIEL, Jasel. Quantum energy teleportation in phase space quantum mechanics. In *EUROPEAN PHYSICAL JOURNAL PLUS*, 2024, vol. 139, no. 12, art. no. 1106. ISSN 2190-5444. Dostupné na: <https://doi.org/10.1140/epjp/s13360-024-05897-3>, Registrované v: WOS

ADCA113 BUŽEK, Vladimír - QUANG, T. Generalized coherent state for bosonic realization of $su(2)$ lie-algebra. In *Journal of the Optical Society of America B*, 1989, vol. 6, no. 12, p. 2447-2449. ISSN 0740-3224. Dostupné na: <https://doi.org/10.1364/JOSAB.6.002447>

Citácie:

1. [1.1] RIESTRA, Jesus G. - GUTIERREZ-VEGA, Julio C. Quantum states resembling classical periodic trajectories in mesoscopic elliptic billiards. In

PHYSICAL REVIEW E, 2024, vol. 109, no. 3, art. no. 034205. ISSN 2470-0045.
Dostupné na: <https://doi.org/10.1103/PhysRevE.109.034205>, Registrované v: WOS

2. [1.1] WANG, Zhaoyang - SHI, Zijian - SHEN, Yijie - LIU, Qiang - FU, Xing. Squeezed Coherent States of Geometric Beams. In *ACS PHOTONICS*, 2024, vol. 11, no. 10, pp. 4407-4413. ISSN 2330-4022. Dostupné na:

<https://doi.org/10.1021/acsphotonics.4c01366>, Registrované v: WOS

ADCA114

BUŽEK, Vladimír - MOYACESSA, H. - KNIGHT, P.L. - PHOENIX, S.J.D.

Schrodinger-cat states in the resonant jaynes-cummings model-collapse and revival of oscillations of the photon-number distribution. In *Physical Review A*, 1992, vol. 45, no. 11, p. 8190-8203. ISSN 1050-2947. Dostupné na:

<https://doi.org/10.1103/PhysRevA.45.8190>

Citácie:

1. [1.1] BOCANEGRA-GARAY, Ivan A. - CASTILLO-CELEITA, Miguel - NEGRO, J. - NIETO, L. M. - GOMEZ-RUIZ, Fernando J. Exploring supersymmetry: Interchangeability between Jaynes-Cummings and anti-Jaynes-Cummings models. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 4, art. no. 043218.

Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.043218>, Registrované v: WOS

2. [1.1] MAYERO, Christopher - OMOLO, Joseph Akeyo. Anti-Jaynes-Cummings interaction of a two-level atom with squeezed light: photon statistics, atomic population inversion and entropy of entanglement. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 5, art. no. 182. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04390-1>, Registrované v: WOS

3. [1.1] MIAO, Hui-hui. Investigating Entropic Dynamics of Multiqubit Cavity QED System. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 12. Dostupné na: <https://doi.org/10.1002/qute.202400246>, Registrované v: WOS

4. [1.1] MIRZAEI, S. - CHENAGHLOU, A. - ALISHAMSI, Y. Thermal Properties of the $su(1,1)$ Jaynes-Cummings Model under the Influence of the Stark Shift. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 9, art. no. 232. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05738-0>, Registrované v: WOS

5. [1.1] OBADA, A.s. f. - AHMED, M. M. A. - KHALIL, E. M. - RABEA, R. N. - EL-DEBERKY, M. A. Effect of Non-linear Coupling on Atom-Atom Interaction. In *NONLINEAR OPTICS QUANTUM OPTICS-CONCEPTS IN MODERN OPTICS*, 2024, vol. 60, no. 1-2, pp. 1-19. ISSN 1543-0537., Registrované v: WOS

ADCA115

BUŽEK, Vladimír - VEDRAL, V. - PLENIO, M.B. - KNIGHT, P.L. - HILLERY, M. Broadcasting of entanglement via local copying. In *Physical Review A*, 1997, vol. 55, no. 5, p. 3327-3332. ISSN 1050-2947.

Citácie:

1. [1.1] PATEL, Dhruvil - ROY, Arup - CHAKRABARTY, Indranil - GANGULY, Nirman. Broadcasting of non-locality. In *PRAMANA-JOURNAL OF PHYSICS*, 2024, vol. 98, no. 2, art. no. 59. ISSN 0304-4289. Dostupné na:

<https://doi.org/10.1007/s12043-024-02726-1>, Registrované v: WOS

2. [1.1] ZHANG, Linshuai - LI, Nan. Can imaginarity be broadcast via real operations? In *COMMUNICATIONS IN THEORETICAL PHYSICS*, 2024, vol. 76, no. 11, art. no. 115104. ISSN 0253-6102. Dostupné na:

<https://doi.org/10.1088/1572-9494/ad6de5>, Registrované v: WOS

3. [1.1] ZHANG, Zijian - LI, Nan - LUO, Shunlong. Broadcasting of imaginarity. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 5, art. no. 052439. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.052439>, Registrované v:

WOS

ADCA116 BUŽEK, Vladimír - BRAUNSTEIN, S.L. - HILLERY, M. - BRUSS, D. Quantum copying: A network. In *Physical Review A*, 1997, vol. 56, no. 5, p. 3446-3452. ISSN 1050-2947.

Citácie:

1. [1.1] CHOUDHURY, Binayak S. - MANDAL, Manoj Kumar - SAMANTA, Soumen. Two protocols for telecloning of Bell-like states with and without ancilla qubit. In *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, 2024, vol. 57, no. 34, art. no. 345302. ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/ad6ab0>, Registrované v: WOS
2. [1.1] GAVOROVA, Zuzana - SEIDEL, Matan - TOUATI, Yonathan. Topological obstructions to quantum computation with unitary oracles. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 3, art. no. 032625. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.032625>, Registrované v: WOS
3. [1.1] GHOSH, Debkanta - DAS AGARWAL, Keshav - HALDER, Pritam - SEN (DE), Aditi. Entanglement of weighted graphs uncovering transitions in variable-range interacting models. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 2, art. no. 022431. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.022431>, Registrované v: WOS
4. [1.1] KHANNA, Shashaank - HALDER, Saronath - SEN, Ujjwal. Quantum entanglement percolation under a realistic restriction. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 1, art. no. 012419. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.012419>, Registrované v: WOS
5. [1.1] PELOFSKE, Elijah - BARTSCHI, Andreas - EIDENBENZ, Stephan - GARCIA, Bryan - KIEFER, Boris. Probing Quantum Telecloning on Superconducting Quantum Processors. In *IEEE TRANSACTIONS ON QUANTUM ENGINEERING*, 2024, vol. 5, no., art. no. 3101519. Dostupné na: <https://doi.org/10.1109/TQE.2024.3391654>, Registrované v: WOS

ADCA117 BUŽEK, Vladimír - KNIGHT, P.L. The origin of squeezing in a superposition of coherent states. In *Optics Communications*, 1991, vol. 81, no. 5, p. 331-336. ISSN 0030-4018. Dostupné na: [https://doi.org/10.1016/0030-4018\(91\)90626-O](https://doi.org/10.1016/0030-4018(91)90626-O)

Citácie:

1. [1.1] BATIN, Abdul Q. - GHOSH, Suranjana - PANIGRAHI, Prasanta K. - ROY, Utpal. Quantum scissor from exact generalized photon number statistics. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 7107. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-56472-w>, Registrované v: WOS

ADCA118 BUŽEK, Vladimír - JEX, I. Dynamics of a 2-level atom in a Kerr-Like medium. In *Optics Communications*, 1990, vol. 78, no. 5-6, p. 425-435. ISSN 0030-4018.

Citácie:

1. [1.1] AHADPOUR, Sodeif - MIRMASOUDI, Forouzan. Coupled engine and refrigerator driven in nonlinear Jaynes-Cummings model. In *JOURNAL OF MODERN OPTICS*, 2024, vol. 71, no. 16-18, pp. 601-608. ISSN 0950-0340. Dostupné na: <https://doi.org/10.1080/09500340.2024.2442673>, Registrované v: WOS
2. [1.1] FIROZY, M. - SADEGHI, M. - BOLORIZADEH, M. A. Rotating coherent states in the dispersive regime of the generalized Jaynes-Cummings model. In *OPTICAL AND QUANTUM ELECTRONICS*, 2024, vol. 56, no. 6, art. no. 920. ISSN 0306-8919. Dostupné na: <https://doi.org/10.1007/s11082-024-06707-x>, Registrované v: WOS
3. [1.1] SADHASIVAM, Vijay Ganesh - SUZUKI, Fumika - YAN, Bin - SINITSYN, Nikolai A. Parametric tuning of quantum phase transitions in ultracold reactions. In *NATURE COMMUNICATIONS*, 2024, vol. 15, no. 1, art. no. 10246. Dostupné

na: <https://doi.org/10.1038/s41467-024-54489-3>, Registrované v: WOS

4. [1.1] TERESHCHENKO, I. A. - TIKHONOVA, O. V. Dynamics of Exciton Formation in Planar Nanostructures under the Action of a Quantum Electromagnetic Field under Nonlinearity Conditions. In *BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE*, 2024, vol. 51, no. SUPPL 2, pp. S129-S137. ISSN 1068-3356. Dostupné na: <https://doi.org/10.3103/S1068335624600505>, Registrované v: WOS

ADCA119

BUŽEK, Vladimír - DERKA, R. - MASSAR, S. Optimal quantum clocks. In *Physical Review Letters*, 1999, vol. 82, no. 10, p. 2207-2210. (1998: 6.017 - IF, karentované - CCC). (1999 - Current Contents, WOS, SCOPUS). ISSN 0031-9007.

Citácie:

1. [1.1] CHEN, Hongzhen - CHEN, Yu - LIU, Jing - MIAO, Zibo - YUAN, Haidong. Quantum Metrology Enhanced by Leveraging Informative Noise with Error Correction. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 19, art. no. 190801. ISSN 0031-9007. Dostupné na:

<https://doi.org/10.1103/PhysRevLett.133.190801>, Registrované v: WOS

2. [1.1] CHIRIBELLA, Giulio. Extreme quantum states and processes, and extreme points of general spectrahedra in finite dimensional algebras. In *INTERNATIONAL JOURNAL OF QUANTUM INFORMATION*, 2024, vol. 22, no. 05. ISSN 0219-7499. Dostupné na: <https://doi.org/10.1142/S0219749924400045>, Registrované v: WOS

3. [1.1] GUO, Yu - LIU, Zixuan - TANG, Hao - HU, Xiao-Min - LIU, Bi-Heng - HUANG, Yun-Feng - LI, Chuan-Feng - GUO, Guang-Can - CHIRIBELLA, Giulio. Experimental Demonstration of Input-Output Indefiniteness in a Single Quantum Device. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 16, art. no. 160201. ISSN 0031-9007. Dostupné na:

<https://doi.org/10.1103/PhysRevLett.132.160201>, Registrované v: WOS

4. [1.1] GUO, Zijian - SUN, Peijie - SUN, Yifan - LI, Qian - KONG, Lingjun - ZHANG, Xiangdong. Distributed Phase Estimation at the Heisenberg Limit with Classical Light. In *ADVANCED PHOTONICS RESEARCH*, 2024, vol. 5, no. 3. ISSN 2699-9293. Dostupné na: <https://doi.org/10.1002/adpr.202300223>, Registrované v: WOS

5. [1.1] HAYASHI, Masahito. Alexander S. Holevo's researches in quantum information theory in 20th century. In *INTERNATIONAL JOURNAL OF QUANTUM INFORMATION*, 2024, vol. 22, no. 05. ISSN 0219-7499. Dostupné na: <https://doi.org/10.1142/S0219749924400069>, Registrované v: WOS

6. [1.1] HUANG, Zixin - LAMI, Ludovico - WILDE, Mark M. Exact Quantum Sensing Limits for Bosonic Dephasing Channels. In *PRX QUANTUM*, 2024, vol. 5, no. 2, art. no. 020354. Dostupné na:

<https://doi.org/10.1103/PRXQuantum.5.020354>, Registrované v: WOS

7. [1.1] MACALUSO, Antonio - CLISSA, Luca - LODI, Stefano - SARTORI, Claudio. An efficient quantum algorithm for ensemble classification using bagging. In *IET QUANTUM COMMUNICATION*, 2024, vol. 5, no. 3, pp. 253-268. Dostupné na: <https://doi.org/10.1049/qtc2.12087>, Registrované v: WOS

8. [1.1] PIOTRAK, Michal - KOPCIUCH, Marek - FARD, Arash Dezhang - SMOLIS, Magdalena - PUSTELNY, Szymon - KORZEKWA, Kamil. Perfect quantum protractors. In *QUANTUM*, 2024, vol. 8, no., pp. 1-20. ISSN 2521-327X., Registrované v: WOS

9. [1.1] SAKUMA, Rei - KANNO, Shu - SUGISAKI, Kenji - ABE, Takashi - YAMAMOTO, Naoki. Entanglement-assisted phase-estimation algorithm for calculating dynamical response functions. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 2, art. no. 022618. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.110.022618>, Registrované v: WOS

10. [1.1] SHAW, Adam L. - FINKELSTEIN, Ran - TSAI, Richard Bing-Shiun - SCHOLL, Pascal - YOON, Tai Hyun - CHOI, Joonhee - ENDRES, Manuel. Multi-ensemble metrology by programming local rotations with atom movements. In NATURE PHYSICS, 2024, vol.20, p. 195-201. ISSN 1745-2473. Dostupné na: <https://doi.org/10.1038/s41567-023-02323-w>, Registrované v: WOS

11. [1.1] THURTELL, Tyler G. - MIYAKE, Akimasa. Optimizing one-axis twists for variational Bayesian quantum metrology. In PHYSICAL REVIEW RESEARCH, 2024, vol. 6, no. 2, art. no. 023179. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.023179>, Registrované v: WOS

12. [1.1] WANG, Qisheng - ZHANG, Zhicheng. Tight quantum depth lower bound for solving systems of linear equations. In PHYSICAL REVIEW A, 2024, vol. 110, no. 1, art. no. 012422. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.012422>, Registrované v: WOS

13. [1.1] XU, Liang - ZHANG, Lijian. Progress and perspectives on weak-value amplification. In PROGRESS IN QUANTUM ELECTRONICS, 2024, vol. 96, no., art. no. 100518. ISSN 0079-6727. Dostupné na: <https://doi.org/10.1016/j.pquantelec.2024.100518>, Registrované v: WOS

14. [1.1] ZHANG, Chao - HU, Xiao-Min - DING, Feng - HU, Xue-Yuan - GUO, Yu - LIU, Bi-Heng - HUANG, Yun-Feng - LI, Chuan-Feng - GUO, Guang-Can. Experimental Catalytic Amplification of Asymmetry. In PHYSICAL REVIEW LETTERS, 2024, vol. 133, no. 14, art. no. 140201. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.140201>, Registrované v: WOS

ADCA120 BUŽEK, Vladimír - HILLERY, M. - WERNER, R. Universal-NOT gate. In Journal of Modern Optics, 2000, vol. 47, no. 2-3, p. 211-232. (1999: 1.475 - IF). ISSN 0950-0340.

Citácie:

1. [1.1] SONG, Minjeong - NARASIMHACHAR, Varun - REGULA, Bartosz - ELLIOTT, Thomas J. - GU, Mile. Causal Classification of Spatiotemporal Quantum Correlations. In PHYSICAL REVIEW LETTERS, 2024, vol. 133, no. 11, art. no. 110202. ISSN 0031-9007. Dostupné na:

<https://doi.org/10.1103/PhysRevLett.133.110202>, Registrované v: WOS

ADCA121 BUŽEK, Vladimír. N-level atom interacting with single-mode radiation-field - An exactly solvable model with multiphoton transitions and intensity-dependent coupling. In Journal of Modern Optics, 1990, vol. 37, no. 6, p. 1033-1053. ISSN 0950-0340. Dostupné na: <https://doi.org/10.1080/09500349014551091>

Citácie:

1. [1.1] BOCANEGRA-GARAY, Ivan Alejandro - HERNANDEZ-SANCHEZ, L. - RAMOS-PRieto, Iran - SOTO-EGUIBAR, Francisco - MOYA-CESSA, Hector Manuel. Invariant approach to the driven Jaynes-Cummings model. In SCIPost PHYSICS, 2024, vol. 16, no. 1, art. no. 007. ISSN 2542-4653., Registrované v: WOS

2. [1.1] HERNANDEZ-SANCHEZ, L. - BOCANEGRA-GARAY, I. A. - RAMOS-PRieto, I. - SOTO-EGUIBAR, F. - MOYA-CESSA, H. M. Effects of classical drivings on the power broadening of atomic lineshapes. In JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS, 2024, vol. 41, no. 8, pp. C68-C73. ISSN 0740-3224. Dostupné na:

<https://doi.org/10.1364/JOSAB.522587>, Registrované v: WOS

ADCA122 BUŽEK, Vladimír - HILLERY, M. Quantum disentanglement and phase measurements. In Czechoslovak Journal of Physics, 1995, vol. 45, no. 9, p. 711-725. (1994: 0.330 - IF, karentované - CCC). (1995 - Current Contents, WOS, SCOPUS). ISSN 0011-4626. Dostupné na: <https://doi.org/10.1007/BF01845946>

Citácie:

1. [1.1] MEHER, Nilakantha - POEM, Eilon - OPATRY, Tomas - FIRSTENBERG, Ofer - KURIZKI, Gershon. Supersensitive phase estimation by thermal light in a Kerr-nonlinear interferometric setup. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 1, art. no. 013715. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.013715>, Registrované v: WOS

ADCA123

BUŽEK, Vladimír - HILLERY, M. Quantum copying: Beyond the no-cloning theorem. In *Physical Review A*, 1996, vol. 54, no. 3, p. 1844-1852. ISSN 1050-2947.

Citácie:

1. [1.1] ADAMI, Christoph. Stimulated emission of radiation and the black hole information problem. In *ANNALS OF PHYSICS*, 2024, vol. 468, no., art. no. 169739. ISSN 0003-4916. Dostupné na:

<https://doi.org/10.1016/j.aop.2024.169739>, Registrované v: WOS

2. [1.1] CHEN, Lin - JIA, Ziyue. On Optimum Entanglement Purification Scheduling in Quantum Networks. In *IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS*, 2024, vol. 42, no. 7, pp. 1779-1792. ISSN 0733-8716.

Dostupné na: <https://doi.org/10.1109/JSAC.2024.3380080>, Registrované v: WOS

3. [1.1] CHIRIBELLA, Giulio - SIMONOV, Kyrylo - ZHAO, Xuanqiang. Dimension-independent weak value estimation via controlled SWAP operations. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 4, art. no. 043043. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.043043>, Registrované v: WOS

4. [1.1] CHOUDHURY, Binayak S. - MANDAL, Manoj Kumar - SAMANTA, Soumen. Two protocols for telecloning of Bell-like states with and without ancilla qubit. In *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, 2024, vol. 57, no. 34, art. no. 345302. ISSN 1751-8113. Dostupné na:

<https://doi.org/10.1088/1751-8121/ad6ab0>, Registrované v: WOS

5. [1.1] DAS, Sudipta - GUPTA, Rivu - DHAR, Himadri Shekhar - SEN(DE), Aditi. Nonclassical resource for continuous-variable telecloning with non-Gaussian advantage. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 1, art. no. 012410. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.110.012410>, Registrované v: WOS

6. [1.1] GAI, Di - YANG, Shiyu - XU, Hai - YANG, Kang - YAO, Zhipeng - YU, Shengjie - CHEN, Yanhe. Study on flexural resilience of composite foam sandwich structures under hygrothermal environment. In *AIP ADVANCES*, 2024, vol. 14, no. 12, art. no. 125105. Dostupné na: <https://doi.org/10.1063/5.0230348>, Registrované v: WOS

7. [1.1] GAVOROVA, Zuzana - SEIDEL, Matan - TOUATI, Yonathan. Topological obstructions to quantum computation with unitary oracles. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 3, art. no. 032625. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.032625>, Registrované v: WOS

8. [1.1] HU, WenWen - YE, Wei - YANG, YouFeng. Multiparty sharing of quantum images based on product state of maximally entangled GHZ state. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 6, art. no. 238. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04430-w>, Registrované v: WOS

9. [1.1] HUANG, Yuheng - QIU, Yunfan - YOUNG, Ryan M. - SCHATZ, George C. - KRZYANIAK, Matthew D. - WASIELEWSKI, Michael R. Identifying Sources of Entanglement Loss in Photodriven Molecular Electron Spin Teleportation. In *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*, 2024, vol. 146, no. 29, pp. 20133-20140. ISSN 0002-7863. Dostupné na:

<https://doi.org/10.1021/jacs.4c04393>, Registrované v: WOS

10. [1.1] IBARRONDO, Ruben - GATTI, Giancarlo - SANZ, Mikel. Quantum

- Genetic Algorithm With Individuals in Multiple Registers. In *IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION*, 2024, vol. 28, no. 3, pp. 788-797. ISSN 1089-778X. Dostupné na: <https://doi.org/10.1109/TEVC.2023.3296780>, Registrované v: WOS
11. [1.1] JIA, Ziyue - CHEN, Lin. On Fidelity-Oriented Entanglement Distribution for Quantum Switches. In *IEEE JOURNAL ON EMERGING AND SELECTED TOPICS IN CIRCUITS AND SYSTEMS*, 2024, vol. 14, no. 3, pp. 495-506. ISSN 2156-3357. Dostupné na: <https://doi.org/10.1109/JETCAS.2024.3425712>, Registrované v: WOS
12. [1.1] KUNDU, Satwik - GHOSH, Swaroop. SoK Paper: Security Concerns in Quantum Machine Learning as a Service. In *PROCEEDINGS OF THE 13TH INTERNATIONAL WORKSHOP ON HARDWARE AND ARCHITECTURAL SUPPORT FOR SECURITY AND PRIVACY, HASP 2024*, 2024, vol., no., pp. 28-36. Dostupné na: <https://doi.org/10.1145/3696843.3696846>, Registrované v: WOS
13. [1.1] LAPPONI, Alessio - LOUKO, Jorma - MANCINI, Stefano. Making two particle detectors in flat spacetime communicate quantumly. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 2, art. no. 025018. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.025018>, Registrované v: WOS
14. [1.1] LIAO, De-Wei - YEH, Yuan-Ren - HONG, Chong-You - YEN, Jhih-Heng - HU, Chin-Cheng - YU, Yu-Ping - HUNG, Yu-Han. A novel decoy state BB84 QKD transmission scheme using opticalswitch-based polarization multiplexing. In *QUANTUM TECHNOLOGIES* 2024, 2024, vol. 12993, no., art. no. 129930L. ISSN 0277-786X. Dostupné na: <https://doi.org/10.1117/12.3022656>, Registrované v: WOS
15. [1.1] LIU, Bing-Xin - XU, Guang-Bao - YANG, Yu-Guang. Complete Security Solution for Practical Quantum Network Coding. In *IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS*, 2024, vol. 43, no. 9, pp. 2692-2704. ISSN 0278-0070. Dostupné na: <https://doi.org/10.1109/TCAD.2024.3382827>, Registrované v: WOS
16. [1.1] LOPATNIKOVA, Anna - TRAN, Minh-ngoc - SISSON, Scott a. AN INTRODUCTION TO QUANTUM COMPUTING FOR STATISTICIANS AND DATA SCIENTISTS. In *FOUNDATIONS OF DATA SCIENCE*, 2024, vol. 6, no. 3, pp. 278-307. Dostupné na: <https://doi.org/10.3934/fods.2024013>, Registrované v: WOS
17. [1.1] LOU, Yanbo - LV, Yinghui - WANG, Jiabin - LIU, Shengshuai - JING, Jietai. Orbital Angular Momentum Multiplexed Deterministic All-Optical Quantum Erasure-Correcting Code. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 4, art. no. 040601. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.040601>, Registrované v: WOS
18. [1.1] MAFU, Mhlambululi. Advances in artificial intelligence and machine learning for quantum communication applications. In *IET QUANTUM COMMUNICATION*, 2024, vol. 5, no. 3, pp. 202-231. Dostupné na: <https://doi.org/10.1049/qtc2.12094>, Registrované v: WOS
19. [1.1] MAIHEMUTI, Nueraminaimu - PENG, Jiayin - AISAN, Yimamujiang - TANG, Jiangang. Controlled cyclic assisted cloning of arbitrary unknown single-particle states. In *EUROPEAN PHYSICAL JOURNAL PLUS*, 2024, vol. 139, no. 10, art. no. 907. ISSN 2190-5444. Dostupné na: <https://doi.org/10.1140/epjp/s13360-024-05698-8>, Registrované v: WOS
20. [1.1] MAIHEMUTI, Nueraminaimu - PENG, Jiayin - YANG, Zhen - ZHAI, Dengxin - TANG, Jiangang. Controlled and Assisted Cloning of an Arbitrary Unknown States via Maximal Slice States. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 1, art. no. 18. ISSN 0020-7748.

- Dostupné na: <https://doi.org/10.1007/s10773-023-05536-0>, Registrované v: WOS
21. [1.1] MU, Qingxia - WANG, Ting - ZHANG, Wen-Zhao. Photon-phonon quantum cloning in optomechanical system. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 1, art. no. 015102. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad0a2c>, Registrované v: WOS
22. [1.1] PAN, Dong - LONG, Gui-Lu - YIN, Liuguo - SHENG, Yu-Bo - RUAN, Dong - NG, Soon Xin - LU, Jianhua - HANZO, Lajos. The Evolution of Quantum Secure Direct Communication: On the Road to the Qinternet. In *IEEE COMMUNICATIONS SURVEYS AND TUTORIALS*, 2024, vol. 26, no. 3, pp. 1898-1949. Dostupné na: <https://doi.org/10.1109/COMST.2024.3367535>, Registrované v: WOS
23. [1.1] PARZYGNAT, Arthur J. - FULLWOOD, James - BUSCEMI, Francesco - CHIRIBELLA, Giulio. Virtual Quantum Broadcasting. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 11, art. no. 110203. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.110203>, Registrované v: WOS
24. [1.1] PATEL, Dhruvil - ROY, Arup - CHAKRABARTY, Indranil - GANGULY, Nirman. Broadcasting of non-locality. In *PRAMANA-JOURNAL OF PHYSICS*, 2024, vol. 98, no. 2, art. no. 59. ISSN 0304-4289. Dostupné na: <https://doi.org/10.1007/s12043-024-02726-1>, Registrované v: WOS
25. [1.1] PELOFSKE, Elijah - BARTSCHI, Andreas - EIDENBENZ, Stephan - GARCIA, Bryan - KIEFER, Boris. Probing Quantum Telecloning on Superconducting Quantum Processors. In *IEEE TRANSACTIONS ON QUANTUM ENGINEERING*, 2024, vol. 5, no., art. no. 3101519. Dostupné na: <https://doi.org/10.1109/TQE.2024.3391654>, Registrované v: WOS
26. [1.1] PENG, Jia-yin - LEI, Hong-xuan - TANG, Jian-gang. Multi-type-output Assisted Cloning of Unknown Single-qubit States. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 1, art. no. 7. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-023-05538-y>, Registrované v: WOS
27. [1.1] PRAJAPAT, Sunil - KUMAR, Pankaj - KUMAR, Dheeraj - DAS, Ashok Kumar - HOSSAIN, M. Shamim - RODRIGUES, Joel J. P. C. Quantum Secure Authentication Scheme for Internet of Medical Things Using Blockchain. In *IEEE INTERNET OF THINGS JOURNAL*, 2024, vol. 11, no. 23, pp. 38496-38507. ISSN 2327-4662. Dostupné na: <https://doi.org/10.1109/IIOT.2024.3448212>, Registrované v: WOS
28. [1.1] PRAJAPAT, Sunil - KUMAR, Pankaj - KUMAR, Sandeep - DAS, Ashok Kumar - SHETTY, Sachin - HOSSAIN, M. Shamim. Designing High-Performance Identity-Based Quantum Signature Protocol With Strong Security. In *IEEE ACCESS*, 2024, vol. 12, no., pp. 14647-14658. ISSN 2169-3536. Dostupné na: <https://doi.org/10.1109/ACCESS.2024.3355196>, Registrované v: WOS
29. [1.1] PRAJAPAT, Sunil - KUMAR, Pankaj - KUMAR, Sandeep. A privacy preserving quantum authentication scheme for secure data sharing in wireless body area networks. In *CLUSTER COMPUTING-THE JOURNAL OF NETWORKS SOFTWARE TOOLS AND APPLICATIONS*, 2024, vol. 27, no. 7, pp. 9013-9029. ISSN 1386-7857. Dostupné na: <https://doi.org/10.1007/s10586-024-04449-9>, Registrované v: WOS
30. [1.1] PRETI, Francesco - SCHILLING, Michael - JERBI, Sofiene - TRENKWALDER, Lea M. - NAUTRUP, Hendrik Poulsen - MOTZOI, Felix - BRIEGEL, Hans J. Hybrid discrete-continuous compilation of trapped-ion quantum circuits with deep reinforcement learning. In *QUANTUM*, 2024, vol. 8, no., art. no. 1343. ISSN 2521-327X., Registrované v: WOS
31. [1.1] QU, Zhiguo - CHEN, Zhixiao - NING, Xin - TIWARI, Prayag. QEPP: A

- Quantum Efficient Privacy Protection Protocol in 6G-Quantum Internet of Vehicles. In *IEEE TRANSACTIONS ON INTELLIGENT VEHICLES*, 2024, vol. 9, no. 1, pp. 905-916. ISSN 2379-8858. Dostupné na: <https://doi.org/10.1109/TIV.2023.3304852>, Registrované v: WOS
32. [1.1] REN, Chao - DONG, Zhao Yang - YU, Han - XU, Minrui - XIONG, Zehui - NIYATO, Dusit. ESQFL: Digital Twin-Driven Explainable and Secured Quantum Federated Learning for Voltage Stability Assessment in Smart Grids. In *IEEE JOURNAL OF SELECTED TOPICS IN SIGNAL PROCESSING*, 2024, vol. 18, no. 5, pp. 964-978. ISSN 1932-4553. Dostupné na: <https://doi.org/10.1109/JSTSP.2024.3485878>, Registrované v: WOS
33. [1.1] WANG JUN - ZHAI SHUQIN. Secure Continuous Variable Quantum Cloning Based on EPR Steering. In *ACTA OPTICA SINICA*, 2024, vol. 44, no. 3, art. no. 0327002. ISSN 0253-2239. Dostupné na: <https://doi.org/10.3788/AOS231278>, Registrované v: WOS
34. [1.1] WANG, Chen - LIU, Bing-Bing - YUN, Meng-Ru - ZHU, Xiao-Yu - SU, Shi-Lei. Optimal Probabilistic Quantum Cloning in Rydberg Atoms Based on Dynamically Corrected Geometric Quantum Operations. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 9, art. no. 229. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05746-0>, Registrované v: WOS
35. [1.1] WANG, Jingyao - WANG, Xin. Theoretical concept of error-rejecting entanglement purification of quantum-dots electronic spins in single-sided optical microcavity. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 8, art. no. 083015. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad6bb7>, Registrované v: WOS
36. [1.1] WANG, Shou-Ya - ZHANG, Wen-Hai. Probabilistic quantum cloning of three symmetric states. In *AIP ADVANCES*, 2024, vol. 14, no. 12, art. no. 125307. Dostupné na: <https://doi.org/10.1063/5.0228577>, Registrované v: WOS
37. [1.1] WANG, Shou-Ya - ZHANG, Wen-Hai. Universal programmable unambiguous discrimination of two unknown states with two copies. In *AIP ADVANCES*, 2024, vol. 14, no. 10, art. no. 105130. Dostupné na: <https://doi.org/10.1063/5.0232590>, Registrované v: WOS
38. [1.1] YANG, Yu-Guang - LIU, Bing-Xin - XU, Guang-Bao - JIANG, Dong-Huan - ZHOU, Yi-Hua - SHI, Wei-Min - SHANG, Tao. Flexible Quantum Network Coding by Using Quantum Multiplexing. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 9. Dostupné na: <https://doi.org/10.1002/qute.202400016>, Registrované v: WOS
39. [1.1] ZHAI, Deng-xin - PENG, Jia-yin - MAIHEMUTI, Nueraminaimu - TANG, Jian-gang. Assisted Cloning of an Arbitrary Unknown d-Dimension State. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 6, art. no. 152. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05694-9>, Registrované v: WOS
40. [1.1] ZHAO, Wei - LI, Guangyao - ZHANG, Peng - WANG, Fuqiang - RUAN, Xinchao - SHI, Jinjing. Quantum secure direct communication in Internet of Vehicles. In *ISCIENCE*, 2024, vol. 27, no. 10, art. no. 110942. Dostupné na: <https://doi.org/10.1016/j.isci.2024.110942>, Registrované v: WOS

ADCA124

BUŽEK, Vladimír. Reconstruction of Liouvillian superoperators. In *Physical Review A*, 1998, vol. 58, no. 3, p. 1723-1727. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.58.1723>

Citácie:

1. [1.1] GU, Bing. Diagrammatic representation and nonperturbative approximations of the exact time-convolutionless master equation. In *JOURNAL*

- ADCA125 *OF CHEMICAL PHYSICS*, 2024, vol. 160, no. 20, art. no. 204113. ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/5.0187191>, Registrované v: WOS
- BUŽEK, Vladimír. Periodic revivals of squeezing in an anharmonic-oscillator model with coherent-light. In *Physics Letters A*, 1989, vol. 136, no. 4-5, p. 188-192. ISSN 0375-9601. Dostupné na: [https://doi.org/10.1016/0375-9601\(89\)90558-6](https://doi.org/10.1016/0375-9601(89)90558-6)
- Citácie:
1. [1.1] KUMAR, Pankaj - KUMAR, Rakesh. *HIGHER-ORDER SQUEEZING OF BOTH QUADRATURE COMPONENTS IN SUPERPOSITION OF ORTHOGONAL EVEN COHERENT STATE AND VACUUM STATE*. In *REPORTS ON MATHEMATICAL PHYSICS*, 2024, vol. 94, no. 1, pp. 73-82. ISSN 0034-4877. Dostupné na: [https://doi.org/10.1016/S0034-4877\(24\)00056-9](https://doi.org/10.1016/S0034-4877(24)00056-9), Registrované v: WOS
- ADCA126 BUŽEK, Vladimír. Light squeezing in the Jaynes-Cummings model with intensity-dependent coupling. In *Journal of Modern Optics*, 1989, vol. 36, no. 9, p. 1151-1162. ISSN 0950-0340. Dostupné na: <https://doi.org/10.1080/09500348914551181>
- Citácie:
1. [1.2] LARSON, Jonas - MAVROGORDATOS, Themistoklis. *The Jaynes-Cummings model and its descendants, second edition: Modern research directions*. In *Jaynes Cummings Model and Its Descendants Second Edition Modern Research Directions*, 2024-04-30, pp. 1-561. ISBN [9780750364485, 9780750364508]. Dostupné na: <https://doi.org/10.1088/978-0-7503-6452-2>, Registrované v: SCOPUS
- ADCA127 BUŽEK, Vladimír - DERKA, R. - ADAM, G. - KNIGHT, P.L. Reconstruction of quantum states of spin systems: From quantum Bayesian inference to quantum tomography. In *Annals of Physics*, 1998, vol. 266, no. 2, p. 454-496. ISSN 0003-4916. Dostupné na: <https://doi.org/10.1103/PhysRevA.99.012336>
- Citácie:
1. [1.1] AKTAR, Shamminuj - BARTSCHI, Andreas - BADAWY, Abdel-Hameed A. - EIDENBENZ, Stephan. *Scalable Experimental Bounds for Entangled Quantum State Fidelities*. In *ACM TRANSACTIONS ON QUANTUM COMPUTING*, 2024, vol. 5, no. 4, art. no. 27. ISSN 2643-6809. Dostupné na: <https://doi.org/10.1145/3700885>, Registrované v: WOS
2. [1.1] VARIZI, Adalberto D. - CORREIA, Pedro S. *Entropy production from maximum entropy principle: A unifying approach*. In *PHYSICAL REVIEW E*, 2024, vol. 110, no. 2, art. no. 024109. ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.110.024109>, Registrované v: WOS
3. [1.2] HOU, Shi Yao - WU, Zipeng - ZENG, Jinfeng - CAO, Ningping - CAO, Chenfeng - LI, Youning - ZENG, Bei. *Maximum Entropy Methods for Quantum State Compatibility Problems*. In *Advanced Quantum Technologies*, 2024-12-01, 7, 12, pp. Dostupné na: <https://doi.org/10.1002/qute.202400172>, Registrované v: SCOPUS
- ADCA128 BYDŽOVSKÝ, J. - KRAUS, L. - ŠVEC, Peter - PASQUALE, Massimo - KOLLÁR, M. Strain sensors based on stress-annealed Co₆₉Fe₂Cr₇Si₈B₁₄ amorphous ribbons. In *Sensors and Actuators A*, 2004, vol. 110, no. 1-3, p. 82-86. ISSN 0925-4005. Dostupné na: <https://doi.org/10.1016/j.sna.2003.09.042>
- Citácie:
1. [1.2] TARJÁNYI, Norbert - JANEK, Marián. *Birefringent Material-Based Stress Sensor*. In *Aip Conference Proceedings*, 2024-01-18, 3054, 1, pp. ISBN [9780735448056]. ISSN 0094243X. Dostupné na: <https://doi.org/10.1063/5.0187450>, Registrované v: SCOPUS
- ADCA129 BYSTRICKÝ, Roman** - ŠKRÁTEK, Martin - RUSNÁK, Jaroslav - PRECNER, Marián - ĽAPAJNA, Milan - ŠAJGALÍK, Pavol. Electrical and magnetic properties

of silicon carbide composites with titanium and niobium carbide as sintering aids. In *Ceramics International*, 2023, vol. 49, p. 5319-5326. (2022: 5.2 - IF, Q1 - JCR, 0.918 - SJR, Q1 - SJR). ISSN 0272-8842. Dostupné na: <https://doi.org/10.1016/j.ceramint.2022.10.055>

Citácie:

1. [3.1] KURNIAWAN, R. - ANDRIAYANI, A. - GEA, S. - KURNIAWAN, H. *Characterization of Silicon from Rice Husk Doped with Cobalt: Analysis of Structure and Magnetoelectric Properties. In JURNAL ILMU FISIKA. ISSN 1979-4657, 2024, vol. 16, no. 2, p. 97-106. Dostupné na: <https://doi.org/10.25077/jif.16.2.97-106.2024>*

ADCA130 BYSTRITSKIY, Yu.M. - VOLKOV, M.A. - KURAEV, E.A. - BARTOŠ, Erik - SEČANSKÝ, Michal. Decay $\phi \rightarrow f_0(980) \gamma$ and the process $e^+e^- \rightarrow \phi f_0(980)$. In *Physical Review D*, 2008, vol. 77, no. 5, 054008. (2007: 4.696 - IF, Q1 - JCR, 2.593 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: <https://doi.org/10.1103/PhysRevD.77.054008>

Citácie:

1. [1.1] JIANG, Yi-Wei - TAN, Wei-Han - CHEN, Hua-Xing - CUI, Er-Liang. *Strong Decays of the $\phi(2170)$ as a Fully Strange Tetraquark State. In SYMMETRY-BASEL, 2024, vol. 16, no. 8, art. no. 1021. Dostupné na: <https://doi.org/10.3390/sym16081021>, Registrované v: WOS*

ADCA131 CAHA, Libor** - LANDAU, Zeph - NAGAJ, Daniel**. Clocks in Feynman's computer and Kitaev's local Hamiltonian: Bias, gaps, idling, and pulse tuning. In *Physical Review A*, 2018, vol. 97, no. 6, art. no. 062306. (2017: 2.909 - IF, Q1 - JCR, 1.288 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.97.062306>

Citácie:

1. [1.1] SARKAR, Rohit Sarma - ADHIKARI, Bibhas. *Discrete-time quantum walks on Cayley graphs of Dihedral groups using generalized Grover coins. In QUANTUM INFORMATION PROCESSING, 2024, vol. 23, no. 5, art. no. 172. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04385-y>, Registrované v: WOS*

2. [1.2] GOPALAKRISHNAN, Dhruv - MOSCA, Michele. *Pragmatic Obfuscation of Factoring in Hamiltonian Simulation and Ground State Estimation. In Proceedings 2024 IEEE 6th International Conference on Trust Privacy and Security in Intelligent Systems and Applications Tps ISA 2024, 2024-01-01, pp. 471-480. ISBN [9798350386745]. Dostupné na: <https://doi.org/10.1109/TPS-ISA62245.2024.00063>, Registrované v: SCOPUS*

ADCA132 CAMENZIND, Leon C. - YU, Liuqi - STAÑO, Peter - ZIMMERMAN, Jeramy D. - GOSSARD, Arthur C. - LOSS, Daniel - ZUMBÜHL, Dominik M.**. Spectroscopy of Quantum Dot Orbitals with In-Plane Magnetic Fields. In *Physical Review Letters*, 2019, vol. 122, no. 20, art. no. 207701. (2018: 9.227 - IF, Q1 - JCR, 3.571 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.122.207701>

Citácie:

1. [1.1] WANG, Dengfeng - CHEN, Yingda - NIU, Zhi-Chuan - LOU, Wen-Kai - CHANG, Kai. *Exciton Bose-Einstein Condensation in Transition Metal Dichalcogenide Monolayer under In-Plane Magnetic Fields. In CHINESE PHYSICS LETTERS, 2024, vol. 41, no. 8, art. no. 087101. ISSN 0256-307X. Dostupné na: <https://doi.org/10.1088/0256-307X/41/8/087101>, Registrované v: WOS*

2. [1.1] ZHANG, Lin - HU, Yutao - YAO, Zhao - LIU, Xiaochi - LUO, Wenchen -

SUN, Kehui - CHAKRABORTY, Tapash. Controllable quantum scars induced by spin-orbit couplings in quantum dots. In *DISCOVER NANO*, 2024, vol. 19, no. 1, art. no. 72. Dostupné na: <https://doi.org/10.1186/s11671-024-04015-7>, Registrované v: WOS

3. [1.2] LUO, Wenchen - PENG, Shenglin - CHAKRABORTY, Tapash. Spin textures in quantum dots and quantum rings. In *Encyclopedia of Condensed Matter Physics*, 2024-01-01, pp. V3-414. ISBN [9780323914086, 9780323908009]. Dostupné na: <https://doi.org/10.1016/B978-0-323-90800-9.00046-9>, Registrované v: SCOPUS

ADCA133 CAMENZIND, Leon C. - YU, Luiqi - STAÑO, Peter - ZIMMERMAN, Jeramy D. - GOSSARD, Arthur C. - LOSS, Daniel - ZUMBÜHL, Dominik M.**. Hyperfine-phonon spin relaxation in a singleelectron GaAs quantum dot. In *Nature Communications*, 2018, vol. 9, no. 1, art. no. 3454. (2017: 12.353 - IF, Q1 - JCR, 6.582 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 2041-1723. Dostupné na: <https://doi.org/10.1038/s41467-018-05879-x>

Citácie:

1. [1.1] ALAVA, Y. Ashlea - KUMAR, K. - HARSAS, C. - MEHTA, P. - HATHI, P. - CHEN, C. - RITCHIE, D. A. - HAMILTON, A. R. Simultaneous study of acoustic and optic phonon scattering of electrons and holes in undoped GaAs/AlxGa1-xAs heterostructures. In *APPLIED PHYSICS LETTERS*, 2024, vol. 125, no. 25, art. no. 252105. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0234082>, Registrované v: WOS

2. [1.1] CHIA, Cleaven - HUANG, Ding - LEONG, Victor - KONG, Jian Feng - GOH, Kuan Eng Johnson. Hybrid Quantum Systems with Artificial Atoms in Solid State. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 5, art. no. 2300461. Dostupné na: <https://doi.org/10.1002/qute.202300461>, Registrované v: WOS

3. [1.1] CRAIG, D. L. - MOON, H. - FEDELE, F. - LENNON, D. T. - VAN STRAATEN, B. - VIGNEAU, F. - CAMENZIND, L. C. - ZUMBUEHL, D. M. - BRIGGS, G. A. D. - OSBORNE, M. A. - SEJDINOVIC, D. - ARES, N. Bridging the Reality Gap in Quantum Devices with Physics-Aware Machine Learning. In *PHYSICAL REVIEW X*, 2024, vol. 14, no. 1, art. no. 011001. ISSN 2160-3308. Dostupné na: <https://doi.org/10.1103/PhysRevX.14.011001>, Registrované v: WOS

4. [1.1] DANI, Olfa - HUSSEIN, Robert - BAYER, Johannes C. - PIERZ, Klaus - KOHLER, Sigmund - HAUG, Rolf J. Direct measurement of spin-flip rates of a self-assembled InAs double quantum dot in single-electron tunneling. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 12, art. no. L121404. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.L121404>, Registrované v: WOS

5. [1.1] DYTE, Harry E. - GILLARD, George - MANNA, Santanu - SILVA, Saimon F. Covre da - RASTELLI, Armando - CHEKHOVICH, Evgeny A. Is Wave Function Collapse Necessary? Explaining Quantum Nondemolition Measurement of a Spin Qubit within Linear Evolution. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 16, art. no. 160804. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.160804>, Registrované v: WOS

6. [1.1] HSUEH, Yu-Ling - KEITH, Daniel - CHUNG, Yousun - GORMAN, Samuel K. - KRANZ, Ludwik - MONIR, Serajum - KEMBREY, Zachary - KEIZER, Joris G. - RAHMAN, Rajib - SIMMONS, Michelle Y. Engineering Spin-Orbit Interactions in Silicon Qubits at the Atomic-Scale. In *ADVANCED MATERIALS*, 2024, vol. 36, no. 26. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202312736>, Registrované v: WOS

7. [1.1] MONIR, S. - OSIKA, E. N. - GORMAN, S. K. - THORVALDSON, I. - HSUEH, Y.I. - MACHA, P. - KRANZ, L. - REINER, J. - SIMMONS, M. Y. - RAHMAN, R. *Impact of measurement backaction on nuclear spin qubits in silicon. In PHYSICAL REVIEW B*, 2024, vol. 109, no. 3, art. no. 035157. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.035157>, Registrované v: WOS

8. [1.1] XING, Yang - YASINJAN, Feroza - SUN, Shuhao - YANG, Jiaying - DU, Yajie - ZHANG, Haotian - LIANG, Yueyang - GENG, Huayue - WANG, Yingdong - SUN, Jicheng - YU, Zihang - KALVAKOLANU, Dhan V. - JIANG, Wei - ZHANG, Ling - FAN, Kelong - GUO, Baofeng. *Nanozyme-based cancer theranostics: A scientometric analysis and comprehensive review. In NANO TODAY*, 2024, vol. 57, no., art. no. 102386. ISSN 1748-0132. Dostupné na: <https://doi.org/10.1016/j.nantod.2024.102386>, Registrované v: WOS

ADCA134 CAN, H. - ŠVEC, Peter Jr. - BYDŽOVSKY, J. - ŠVEC, Peter - AKTAS, B. - SOZERI, H. - TOPAL, U.**. Fabrication of fluxgate sensor heads by milling with a circuit board plotter and influence of core annealing conditions on sensor performance. In *Journal of Superconductivity and Novel Magnetism*, 2017, vol. 30, no. 11, p. 3257-3261. (2016: 1.180 - IF, Q3 - JCR, 0.332 - SJR, Q3 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1557-1939. Dostupné na: <https://doi.org/10.1007/s10948-016-3681-1>

Citácie:

1. [1.1] FANG, Qiansheng - LIN, Ruyue - ZHU, Xulai - SHEN, Shuai. *Design and Simulation Implementation of an Improved Dual Fluxgate Sensor. In 2024 17TH INTERNATIONAL CONFERENCE ON ADVANCED COMPUTER THEORY AND ENGINEERING, ICACTE : 17th International Conference on Advanced Computer Theory and Engineering*, 2024, vol., no., pp. 103-109. ISSN 2154-7491. Dostupné na: <https://doi.org/10.1109/ICACTE62428.2024.10871404>, Registrované v: WOS

ADCA135 CAN, H. - ŠVEC, Peter Jr. - BUDŽOVSKY, J. - ŠVEC, Peter - SOZERI, H. - TOPAL, U.**. Systematic optimization of the sensing properties of ring-core fluxgate sensors with different core diameters and materials. In *Sensors and Actuators A-Physical*, 2017, vol. 255, p. 94-103. (2016: 2.499 - IF, Q1 - JCR, 0.787 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0924-4247. Dostupné na: <https://doi.org/10.1016/j.sna.2017.01.013>

Citácie:

1. [1.1] ZAID, Islam Mohamed - SAJWANI, Hussain - HALWANI, Mohamad - HASSANIN, Hany - AYYAD, Abdulla - ABUASSI, Laith - ALMASKARI, Fahad - SAMAD, Yarjan Abdul - ABUSAFIEH, Abdulqader - ZWEIRI, Yahya. *Virtual prototyping of vision-based tactile sensors design for robotic-assisted precision machining. In SENSORS AND ACTUATORS A-PHYSICAL*, 2024, vol. 374, no., art. no. 115469. ISSN 0924-4247. Dostupné na: <https://doi.org/10.1016/j.sna.2024.115469>, Registrované v: WOS

ADCA136 CAN, Hava - ECEVIT, Fevzi Necati - ŠVEC, Peter Jr. - ŠVEC, Peter - TOPAL, Ugur**. The Sensing Characteristics of Ring-Core Fluxgate Sensors at Temperature Interval of -50 °C to +85 °C. In *IEEE Transactions on Magnetics*, 2018, vol. 54, no. 7, art. no. 4000706. (2017: 1.467 - IF, Q3 - JCR, 0.488 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0018-9464. Dostupné na: <https://doi.org/10.1109/TMAG.2018.2835771>

Citácie:

1. [1.1] YANG, Ruiping - WANG, Hongpeng - LUO, Wang - LIU, Huan - GE, Jian - CHUGO, Daisuke - DONG, Haobin. *Cumulative Error Calibration of Fluxgate Sensor Considering Temperature Effects. In IEEE TRANSACTIONS ON*

INSTRUMENTATION AND MEASUREMENT, 2024, vol. 73, no., art. no. 9517408. ISSN 0018-9456. Dostupné na:
<https://doi.org/10.1109/TIM.2024.3463000>, Registrované v: WOS

- ADCA137 CAO, Y.D. - NAGAJ, Daniel. Perturbative gadgets without strong interactions. In *Quantum Information and Computation*, 2015, vol. 15, no. 13-14, p. 1197-1222. (2014: 1.393 - IF, Q2 - JCR, 0.803 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1533-7146.

Citácie:

1. [1.1] APEL, Harriet - CUBITT, Toby - HAYDEN, Patrick - KOHLER, Tamara - PEREZ-GARCIA, David. Security of quantum position-verification limits Hamiltonian simulation via holography. In *JOURNAL OF HIGH ENERGY PHYSICS*, 2024, vol., no. 8, art. no. 152. Dostupné na:

[https://doi.org/10.1007/JHEP08\(2024\)152](https://doi.org/10.1007/JHEP08(2024)152), Registrované v: WOS

2. [1.1] HARLEY, Dylan - DATTA, Ishaun - KLAUSEN, Frederik Ravn - BLUHM, Andreas - FRANCA, Daniel Stilck - WERNER, Albert H. - CHRISTANDL, Matthias. Going beyond gadgets: the importance of scalability for analogue quantum simulators. In *NATURE COMMUNICATIONS*, 2024, vol. 15, no. 1, art. no. 6527. Dostupné na: <https://doi.org/10.1038/s41467-024-50744-9>,

Registrované v: WOS

- ADCA138 CAPONE, S.** - HOFBAUEROVÁ, Monika, Benkovičová - FORLEO, A. - JERGEL, Matej - MANERA, M.G. - ŠIFFALOVÍČ, Peter - TAURINO, A. - MAJKOVÁ, Eva - SICILIANO, P. - VÁVRA, Ivo - LUBY, Štefan - RELLA, R. Palladium/gamma-Fe₂O₃ nanoparticle mixtures for acetone and NO₂ gas sensors. In *Sensors and Actuators B*, 2017, vol. 243, p. 895-903. (2016: 5.401 - IF, Q1 - JCR, 1.343 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0925-4005. Dostupné na: <https://doi.org/10.1016/j.snb.2016.12.027>

Citácie:

1. [1.1] EL-HOUT, Soliman I. - RADWAN, Ahmed Bahgat - SALEM, Aliaa M. - ALRASHDI, Kamelah S. - AL-QAHTANI, Noora - CHEN, Chunlin. Hierarchical nanostructures and their implications in pushing the boundaries of chemiresistive gas sensing. In *MICROCHEMICAL JOURNAL*, 2024, vol. 207, no., art. no. 111643. ISSN 0026-265X. Dostupné na:

<https://doi.org/10.1016/j.microc.2024.111643>, Registrované v: WOS

2. [1.1] HOSSEINI-GOLGOO, Seyed Mohsen - DAVTALAB-GHAZIMAHALLEH, Majid. Gas Sensing Measurements of a Novel NO₂ Sensor Using K₂CO₃/Al₂O₃ Composite Pellets From Resistive Aspect. In *IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT*, 2024, vol. 73, no., art. no. 9506208. ISSN 0018-9456. Dostupné na:

<https://doi.org/10.1109/TIM.2024.3375412>, Registrované v: WOS

3. [1.1] INGALE, Raju Shivaji - SHINDE, Sachin Girdhar - KHAMKAR, Kashmiri Ashish - KOLI, Prashant Bhimrao - KULKARNI, Sachin Arun - PATIL, Ishwar Jadhav. Al₂SiO₅/SiO₂ Impregnated Photolithographically Fabricated Sensor Material La₂-xAl_xZnO₄: Structural Investigation and Acute Gas Sensing Study for Hazardous Air Pollutant Gases and Humidity Assay. In *SENSING AND IMAGING*, 2024, vol. 25, no. 1, art. no. 36. ISSN 1557-2064. Dostupné na:

<https://doi.org/10.1007/s11220-024-00488-z>, Registrované v: WOS

4. [1.1] WU, Zhongyuan - LUO, Fengyu - ZHENG, Xiaohong - LIU, Jin. Bismuth tungstate nanosheets sensors based on Temkin adsorption model for triethylamine detection. In *SOLID-STATE ELECTRONICS*, 2024, vol. 213, no., art. no. 108850. ISSN 0038-1101. Dostupné na: <https://doi.org/10.1016/j.sse.2023.108850>,

Registrované v: WOS

- ADCA139 CAPOZZIELLO, Salvatore** - PINČÁK, Richard** - BARTOŠ, Erik*. Chern-

Simons Current of Left and Right Chiral Superspace in Graphene Wormhole. In Symmetry-basel, 2020, vol. 12, no. 5, art. no. 774. (2019: 2.645 - IF, Q2 - JCR, 0.365 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2073-8994. Dostupné na: <https://doi.org/10.3390/SYM12050774>

Citácie:

1. [1.1] ALI, Sarfraz - AWAIS, Muhammad - HASNAIN, Muhammad. Cosmic dynamics unveiled in Chern-Simons modified gravity with holographic dark energy model. In INDIAN JOURNAL OF PHYSICS, 2024, vol. 98, no. 14, pp. 5017-5025. ISSN 0973-1458. Dostupné na: <https://doi.org/10.1007/s12648-024-03243-y>, Registrované v: WOS
2. [1.1] ASHRAF, Asifa - MUMTAZ, Saadia - JAVED, Faisal - ZHANG, Zhiyue. Viable embedded wormholes and energy conditions in $f(R, G)$ gravity. In INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, 2024, vol. 21, no. 12, art. no. 2450208. ISSN 0219-8878. Dostupné na: <https://doi.org/10.1142/S0219887824502086>, Registrované v: WOS
3. [1.1] FATIMA, Ghulam - JAVED, Faisal - WASEEM, Arfa - MUSTAFA, Ghulam - TCHIER, Fairouz. Study of acoustic thin-shell wormholes with different types of matter distributions. In INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, 2024, vol. 21, no. 12. ISSN 0219-8878. Dostupné na: <https://doi.org/10.1142/S0219887824501986>, Registrované v: WOS
4. [1.1] KAVYA, N. S. - MUSTAFA, G. - VENKATESHA, V. Probing the existence of wormhole solutions in $f(Q, T)$ gravity with conformal symmetry. In ANNALS OF PHYSICS, 2024, vol. 468, no., art. no. 169723. ISSN 0003-4916. Dostupné na: <https://doi.org/10.1016/j.aop.2024.169723>, Registrované v: WOS
5. [1.1] LOURENCO, Jose A. S. - PARA, Ygor - FURTADO, J. Multiple non-Hermitian phase transitions on a quantum torus surface. In PHYSICAL REVIEW B, 2024, vol. 110, no. 20, art. no. 205420. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.205420>, Registrované v: WOS
6. [1.1] MUSTAFA, G. - JAVED, Faisal - MAURYA, S. K. - GOVENDER, M. - SALEEM, Amna. Dynamical stability of new wormhole solutions via cold dark matter and solitonic quantum wave halos in $f(R, L_m)$ gravity. In PHYSICS OF THE DARK UNIVERSE, 2024, vol. 45, no., art. no. 101508. Dostupné na: <https://doi.org/10.1016/j.dark.2024.101508>, Registrované v: WOS
7. [1.1] MUSTAFA, G. Ricci inverse gravity wormholes. In PHYSICS LETTERS B, 2024, vol. 848, no., art. no. 138407. ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2023.138407>, Registrované v: WOS
8. [1.1] MUSTAFA, Ghulam - JAVED, Faisal - MAURYA, Sunil Kumar - ERREHYMY, Abdelghani. New Embedded Wormhole Solutions in Ricci Inverse Gravity. In ANNALEN DER PHYSIK, 2024, vol. 536, no. 9. ISSN 0003-3804. Dostupné na: <https://doi.org/10.1002/andp.202400155>, Registrované v: WOS

ADCA140

CIZEK, J. - LUKAC, F. - PROCHAZKA, I. - KUZEL, R. - JIRASKOVA, Y. - JANIČKOVIČ, Dušan - ANWAND, W. - BRAUER, G. Characterization of quenched-in vacancies in Fe-Al alloys. In Physica B: Condensed Matter, 2012, vol. 407, no. 14, p. 2659-2664. (2011: 1.063 - IF, Q3 - JCR, 0.595 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0921-4526. Dostupné na: <https://doi.org/10.1016/j.physb.2011.12.122>

Citácie:

1. [1.1] GRODZICKI, M. - LIEDKE, M. O. - MOSZAK, K. - OLSZEWSKI, W. - PAWLACZYK, L. - MAJCHRZAK, D. - IDCZAK, R. - PUCICKI, D. - SERAFINCZUK, J. - BUTTERLING, M. - HIRSCHMANN, E. - WAGNER, A. - KUDRAWIEC, R. - HOMMEL, D. Defect characterizations of N-rich GaNAs ternary alloys. In VACUUM, 2024, vol. 229, no., art. no. 113554. ISSN 0042-

207X. Dostupné na: <https://doi.org/10.1016/j.vacuum.2024.113554>, Registrované v: WOS

2. [1.1] KRAWCZYNSKA, Agnieszka Teresa - MICHALICHA, Anna - SUCHECKI, Przemyslaw - BUDNIAK, Karolina - ROGUSKA, Agata - KERBER, Michael - SETMAN, Daria - SPYCHALSKI, Maciej - ADAMCZYK-CIESLAK, Boguslawa - LIEDKE, Maciej Oskar - BUTTERLING, Maik - HIRSCHMANN, Eric - WAGNER, Andreas - LEWANDOWSKA, Malgorzata - BELCARZ, Anna.

Enhancing anti-adhesion properties by designing microstructure - the microscopy and spectroscopy study of the intercellular bacterial response. In SCIENTIFIC REPORTS, 2024, vol. 14, no. 1, art. no. 24549. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-75045-5>, Registrované v: WOS

3. [1.1] STEUER, O. - LIEDKE, M. O. - BUTTERLING, M. - SCHWARZ, D. - SCHULZE, J. - LI, Z. - WAGNER, A. - FISCHER, I. A. - HUEBNER, R. - ZHOU, S. - HELM, M. - CUNIBERTI, G. - GEORGIEV, Y. M. - PRUCNAL, S. Evolution of point defects in pulsed-laser-melted Ge_{1-x}Sn_x probed by positron annihilation lifetime spectroscopy. In JOURNAL OF PHYSICS-CONDENSED MATTER, 2024, vol. 36, no. 8, art. no. 085701. ISSN 0953-8984. Dostupné na:

<https://doi.org/10.1088/1361-648X/ad0a10>, Registrované v: WOS

4. [1.2] GHOMASHCHI, Reza. An introduction to fundamentals of diffusion in solid state materials. In An Introduction to Fundamentals of Diffusion in Solid State Materials, 2024-12-24, pp. 1-240. ISBN [9781032740201, 9781003467250].

Dostupné na: <https://doi.org/10.1201/9781003467250>, Registrované v: SCOPUS

ADCA141 COCKAYNE, E. - MIHALKOVIČ, Marek - HENLEY, Ch. L. Structure of periodic crystals and quasicrystals in ultrathin films of Ba-Ti-O. In Physical Review B, 2016, vol. 93, no. 2, art. no. 020101R. (2015: 3.718 - IF, Q1 - JCR, 2.377 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.93.020101>

Citácie:

1. [1.1] LI, Xu - YAMADA, Shougo - YAMADA, Yuya - YOSHIDA, Momoko - HASHIMOTO, Yusuke - MATSUSHITA, Tomohiro - MA, Weiliang - GAUDRY, Emilie - YUHARA, Junji. Schematic Structural Analysis of Honeycomb Structure Ultrathin Ce-Ti-O Films on Pt(111) Using Photoelectron Holography and Ab Initio Calculation. In JOURNAL OF PHYSICAL CHEMISTRY C, 2024, vol. 128, no. 47, pp. 20238-20243. ISSN 1932-7447. Dostupné na:

<https://doi.org/10.1021/acs.jpcc.4c05269>, Registrované v: WOS

2. [1.1] RUANO-MERCHAN, Catalina - SINGH, Vipin Kumar - COPIE, Olivier - ANDRIEU, Stephane - PASQUIER, Ludovic - SICOT, Muriel - LEDIEU, Julian - FOURNEE, Vincent. Stoichiometry-Driven Formation of Two-Dimensional Ternary Oxides: From Quasicrystal Approximants to Honeycomb Lattice Structures. In JOURNAL OF PHYSICAL CHEMISTRY C, 2024, vol. 128, no. 21, pp. 8839-8844. ISSN 1932-7447. Dostupné na:

<https://doi.org/10.1021/acs.jpcc.4c01783>, Registrované v: WOS

3. [1.1] VARELA-ROSALES, Nydia Roxana - ENGEL, Michael. Tuning the stability of a model quasicrystal and its approximants with a periodic substrate. In SOFT MATTER, 2024, vol. 20, no. 13, pp. 2915-2925. ISSN 1744-683X. Dostupné na: <https://doi.org/10.1039/d4sm00191e>, Registrované v: WOS

ADCA142 COCOLIOS, T.E. - ANDREYEV, A.N. - ANTALIC, S. - BARZAKH, A. - BASTIN, B. - BUESCHER, J. - DARBY, I.G. - DEXTERS, W. - FEDOROV, D.V. - FEDOSSEEV, V.N. - FLANAGAN, K.T. - FRANCHOO, S. - HUBER, G. - HUYSE, M. - KEUPERS, M. - KOESTER, U. - KUDRYAVTSEV, Yu. - MANÉ, E. - MARSH, B.A. - MOLKANOV, P. - PAGE, R.D. - SELIVERSTOV, M.D. - SJOEDIN, A.M. - STEFAN, I. - VAN DE WALLE, J. - VAN DUPPEN, P. -

VENHART, Martin - ZEMLYANOY, S. Structure of ^{191}Pb from α - and β -decay spectroscopy. In Journal of Physics G, 2010, vol. 37, no. 12, art. no. 125103. (2009: 2.124 - IF, Q2 - JCR, 1.758 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 0954-3899. Dostupné na: <https://doi.org/10.1088/0954-3899/37/12/125103>

Citácie:

1. [1.1] BASUNIA, M. S. Nuclear Data Sheets for $A=191$. In NUCLEAR DATA SHEETS, 2024, vol. 195, no., pp. 368-717. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.04.002>, Registrované v: WOS

2. [1.1] KOSZORUS, Agota - CHEAL, Bradley. Laser spectroscopy of isomers. In EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, 2024, vol. 233, no. 5, pp. 1133-1149. ISSN 1951-6355. Dostupné na: <https://doi.org/10.1140/epjs/s11734-024-01130-5>, Registrované v: WOS

ADCA143 COCOLIOS, T.E. - DEXTERS, W. - SELIVERSTOV, M.D. - ANDREYEV, A.N. - ANTALIC, S. - BARZAKH, A.E. - BASTIN, B. - BUESCHER, J. - DARBY, I.G. - FEDOROV, D.V. - FEDOSSEYEV, V.N. - FLANAGAN, K.T. - FRANCHOO, S. - FRITZSCHE, S. - HUBER, G. - HUYSE, M. - KEUPERS, M. - KOESTER, U. - KUDRYAVTSEV, Yu. - MANE, E. - MARSH, B.A. - MOLKANOV, P.L. - PAGE, R.D. - SJOEDIN, A.M. - STEFAN, I. - VAN DE WALLE, J. - VAN DUPPEN, P. - VENHART, Martin - ZEMLYANOY, S.G. - BENDER, M. - HEENEN, P.-H. Early onset of ground state deformation in neutron deficient polonium isotopes. In Physical Review Letters, 2011, vol. 106, no. 5, art. no. 052503. (2010: 7.622 - IF, Q1 - JCR, 6.450 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.106.052503>

Citácie:

1. [1.1] KONDEV, F. G. Recommended Nuclear Structure and Decay Data for $A=202$ Isobars. In NUCLEAR DATA SHEETS, 2024, vol. 196, no., pp. 342-575. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.06.004>, Registrované v: WOS

2. [1.1] SHUKLA, Sakshi - SRIVASTAVA, Praveen C. - NOMURA, Kosuke - ZAMICK, Larry. Systematic shell-model study for structure and isomeric states in SUP200-210/SUPPo isotopes. In NUCLEAR PHYSICS A, 2024, vol. 1044, no., art. no. 122842. ISSN 0375-9474. Dostupné na: <https://doi.org/10.1016/j.nuclphysa.2024.122842>, Registrované v: WOS

3. [1.1] SINGH, Sahab - CHOUDHURY, D. - ROY, R. - MAHESHWARI, B. - PALIT, R. - DEY, P. - DAS, B. - KUNDU, A. - LASKAR, Md S. R. - NEGI, D. - NAIDU, B. S. - JADHAV, S. - THOMAS, A. - DHALI, A. - NAG, S. - GOEL, N. IMPROVED HALF-LIVES OF 8SUP+/SUP AND 11SUP-/SUP ISOMERIC STATES IN SUP202/SUPPo. In ACTA PHYSICA POLONICA B PROCEEDINGS SUPPLEMENT : 37th Mazurian Lakes Conference on Physics, 2024, vol. 17, no. 3, art. no. A10. ISSN 1899-2358. Dostupné na: <https://doi.org/10.5506/APhysPolBSupp.17.3-A10>, Registrované v: WOS

4. [1.1] WANG, J. G. - GAN, Z. G. - ZHANG, Z. Y. - HUANG, M. H. - MA, L. - ZHANG, M. M. - YANG, H. B. - YANG, C. L. - QIANG, Y. H. - HUANG, X. Y. - ZHAO, Z. - XU, S. Y. - LI, Z. C. - CHEN, L. X. - SUN, L. C. - ZHOU, H. - ZHANG, X. - WU, X. L. - TIAN, Y. L. - WANG, Y. S. - WANG, J. Y. - HUANG, W. X. - LIU, M. L. - LU, Z. W. - HE, Y. - REN, Z. Z. - ZHOU, S. G. - ZHOU, X. H. - XU, H. S. - UTYONKOV, V. K. - VOINOV, A. A. - TSYGANOV, Yu. S. - POLYAKOV, A. N. α -decay properties of new neutron-deficient isotope SUP203/SUPAc. In PHYSICS LETTERS B, 2024, vol. 850, no., art. no. 138503. ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2024.138503>, Registrované v: WOS

5. [1.1] XIE, Hui Hui - LI, Jian. Impact of intrinsic electromagnetic structure on the nuclear charge radius in relativistic density functional theory. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 6, art. no. 064319. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.064319>, Registrované v: WOS
6. [1.1] YANG, Dan - RONG, Yu-Ting - AN, Rong - SHI, Rui-Xiang. Potential signature of new magicity from universal aspects of nuclear charge radii. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 6, art. no. 064314. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.064314>, Registrované v: WOS

ADCA144 COLOMBI, P. - AGNIHOTRI, D.K. - ASADCHIKOV, V.E. - BONTEMPI, E. - BOWEN, D.K. - CHANG, C.H. - DEPERO, L.E. - FARNWORTH, M. - FUJIMOTO, T. - GIBAUD, A. - JERGEL, Matej - KRUMREY, M. - LAFFORD, T.A. - LAMPERTI, A. - MATYI, R.J. - MEDUNA, M. - MILITA, S. - SAKURAI, K. - SHABELNIKOV, L. - ULYANENKOV, A. - LEE VAN DER, A. - WIENER, C. Reproducibility in x-ray reflectometry: results from the first world-wide Round Robin experiment. In *Journal of Applied Crystallography*, 2008, vol. 41, p. 143-152. (2007: 3.629 - IF, Q1 - JCR, 1.660 - SJR, Q1 - SJR). ISSN 0021-8898. Dostupné na: <https://doi.org/10.1107/S0021889807051904>

Citácie:

1. [1.1] BOSTROEM, Hanna L. B. - EMMERLING, Sebastian - HECK, Fabian - KOSCHNICK, Charlotte - JONES, Andrew J. - CLIFFE, Matthew J. - AL NATOUR, Rawan - BONNEAU, Mickaele - GUILLERM, Vincent - SHEKHAH, Osama - EDDAOUDI, Mohamed - LOPEZ-CABRELLES, Javier - FURUKAWA, Shuhei - ROMERO-ANGEL, Maria - MARTI-GASTALDO, Carlos - YAN, Minliang - MORRIS, Amanda J. - ROMERO-MUNIZ, Ignacio - XIONG, Ying - PLATERO-PRATS, Ana E. - ROTH, Jocelyn - QUEEN, Wendy L. - MERTIN, Kalle S. - SCHIER, Danielle E. - CHAMPNESS, Neil R. - YEUNG, Hamish H.M. - LOTSCH, Bettina V. How Reproducible is the Synthesis of Zr-Porphyrin Metal-Organic Frameworks? An Interlaboratory Study. In *ADVANCED MATERIALS*, 2024, vol. 36, no. 15. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202304832>, Registrované v: WOS
2. [1.1] DURANTE, Ofelia - MAGNOZZI, Michele - FIUMARA, Vincenzo - NEILSON, Joshua - CANEPA, Maurizio - AVALLONE, Guerino - BOBBA, Fabrizio - CARAPELLA, Giovanni - CHIADINI, Francesco - DESALVO, Riccardo - DE SIMONE, Roberta - DI GIORGIO, Cinzia - FITTIPALDI, Rosalba - MICCO, Alberto - PINTO, Innocenzo M. - VECCHIONE, Antonio - PIERRO, Vincenzo - GRANATA, Veronica. Toward the optimization of SiO₂ and TiO₂-based metamaterials: Morphological, Structural, and Optical characterization. In *OPTICAL MATERIALS*, 2024, vol. 157, no., art. no. 116038. ISSN 0925-3467. Dostupné na: <https://doi.org/10.1016/j.optmat.2024.116038>, Registrované v: WOS
3. [1.1] MACHIDA, Atsushi - WATANABE, Takeshi - MIZUMAKI, Masaichiro - NAGATA, Kenji - OKADA, Masato. Development of a Bayesian inference method for the analysis of X-ray reflectivity data. In *JAPANESE JOURNAL OF APPLIED PHYSICS*, 2024, vol. 63, no. 1, art. no. 017005. ISSN 0021-4922. Dostupné na: <https://doi.org/10.35848/1347-4065/ad17de>, Registrované v: WOS
4. [1.1] SORRENTINO, Giampiero Pasquale - GUIMARAES, Renato - CORNELIO, Antonella - ZANOLETTI, Alessandra - VALENTIM, Bruno - BONTEMPI, Elza. Mitigating CO₂ emissions through an industrial symbiosis approach: Leveraging cork ash carbonation. In *HELIYON*, 2024, vol. 10, no. 12, art. no. e32893. Dostupné na: <https://doi.org/10.1016/j.heliyon.2024.e32893>, Registrované v: WOS
5. [1.1] WERZER, Oliver - KOWARIK, Stefan - GASSER, Fabian - JIANG, Zhang

- STRZALKA, Joseph - NICKLIN, Christopher - RESEL, Roland. X-ray diffraction under grazing incidence conditions. In NATURE REVIEWS METHODS PRIMERS, 2024, vol. 4, no. 1, art. no. 15. Dostupné na:

<https://doi.org/10.1038/s43586-024-00293-8>, Registrované v: WOS

- ADCA145 CONDE, C.F. - BLÁZQUEZ, J.S. - FRANCO, V. - CONDE, A. - ŠVEC, Peter - JANIČKOVIČ, Dušan. Microstructure and magnetic properties of FeMoBCu alloys: Influence of B content. In Acta Materialia, 2007, vol. 55, no. 17, p. 5675-5683. (2006: 3.549 - IF, Q1 - JCR, 3.615 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 1359-6454. Dostupné na: <https://doi.org/10.1016/j.actamat.2007.05.051>

Citácie:

1. [1.1] LIU, Yijin - YANG, Jianzhi - CAO, Fuzhi - ZHANG, Xu - ZHENG, Shiqiang. Enhancement of Magnetic Shielding Based on Low-Noise Materials, Magnetization Control, and Active Compensation: A Review. In MATERIALS, 2024, vol. 17, no. 22, art. no. 5469. Dostupné na:

<https://doi.org/10.3390/ma17225469>, Registrované v: WOS

2. [1.1] MOHAMMAD-HOSSEINI, Vahid - REZAEI, Ghasem - RAANAEI, Hossein - VASEGHI, Behrooz - KAMALI, Saeed. Structural, magnetic, and thermal properties of nanocrystalline (Fe 55 Cu 20 Al 25) 90 B 10 alloy processed by mechanical alloying. In MATERIALS CHEMISTRY AND PHYSICS, 2024, vol. 323, no., art. no. 129671. ISSN 0254-0584. Dostupné na:

<https://doi.org/10.1016/j.matchemphys.2024.129671>, Registrované v: WOS

- ADCA146 CONDE, C.F. - CONDE, A. - JANIČKOVIČ, Dušan - ŠVEC, Peter. Composition dependence of Curie temperature and microstructure in amorphous Fe-Co-Mo-Cu-B metallic glasses. In Journal of Magnetism and Magnetic Materials, 2006, vol. 304, no. 2, p. E739-E742. (2005: 0.985 - IF, Q2 - JCR, 0.699 - SJR, Q2 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2006.02.208>

Citácie:

1. [1.1] BAZLOV, Andrey I. - MILKOVA, Daria A. - ZANAEVA, Erzhen N. - STROCHKO, Ilia - TABACHKOVA, Natalia Yu. - INOUE, Akihisa. Formation, thermal stability and soft magnetic properties of Fe-Co-B-Si amorphous alloys with ultrahigh saturation magnetic induction of 2.0 T. In JOURNAL OF ALLOYS AND COMPOUNDS, 2024, vol. 1006, no., art. no. 176247. ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.176247>, Registrované v:

WOS

2. [1.1] ZHANG, Shuyan - MA, Danyue - SHEN, Peipei - CHEN, Hua - ZHANG, Zhibin. Experimental investigation of comprehensive performance by tailoring the proportion of late transition metals in quinary Fe-Co-Ni-Si-B amorphous alloys. In JOURNAL OF NON-CRYSTALLINE SOLIDS, 2024, vol. 645, no., art. no. 123203. ISSN 0022-3093. Dostupné na:

<https://doi.org/10.1016/j.jnoncrysol.2024.123203>, Registrované v: WOS

- ADCA147 CONDE, C.F. - BORREGO, J.M. - BLÁZQUEZ, J.S. - CONDE, A. - ŠVEC, Peter - JANIČKOVIČ, Dušan. Magnetic and structural characterization of Mo-Hitperm alloys with different Fe/Co ratio. In Journal of Alloys and Compounds, 2011, vol. 509, no. 5, p. 1994-2000. (2010: 2.138 - IF, Q1 - JCR, 1.073 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2010.10.113>

Citácie:

1. [1.1] SUNBUL, S. E. - AKYOL, S. - ICIN, K. - UMICEVIC, A. - IVANOVSKI, V. - BATALOVIC, K. Investigating oxidation behavior of Fe₃₈Co₃₈Mo₈B₁₅Cu₁ alloy ribbons structural, magnetic and Mossbauer study. In JOURNAL OF NON-

CRYSTALLINE SOLIDS, 2024, vol. 627, no., art. no. 122836. ISSN 0022-3093.
Dostupné na: <https://doi.org/10.1016/j.jnoncrysol.2024.122836>, Registrované v: WOS

ADCA148 COSTA, A.* - BAUMGARTNER, C.* - REINHARDT, S. - BERGER, J. - GRONIN, S. - GARDNER, G. C. - LINDEMANN, T. - MANFRA, M. J. - FABIAN, J. - KOCHAN, Denis - PARADISO, N.** - STRUNK, C. Sign reversal of the Josephson inductance magnetochiral anisotropy and $0-\pi$ -like transitions in supercurrent diodes. In Nature Nanotechnology, 2023, vol. 18, no. 11, p. 1266-1272. (2022: 38.3 - IF, Q1 - JCR, 13.141 - SJR, Q1 - SJR). ISSN 1748-3387. Dostupné na: <https://doi.org/10.1038/s41565-023-01451-x>

Citácie:

1. [1.1] ANGEHRN, Georg - LEGG, Henry F. - LOSS, Daniel - KLINOVAJA, Jelena. Relations between normal state nonreciprocal transport and the superconducting diode effect in the trivial and topological phases. In APPLIED PHYSICS LETTERS, 2024, vol. 125, no. 2, art. no. 023507. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0216679>, Registrované v: WOS
2. [1.1] CHATTERJEE, Pritam - DUTTA, Paramita. Quasiparticles-mediated thermal diode effect in Weyl Josephson junctions. In NEW JOURNAL OF PHYSICS, 2024, vol. 26, no. 7, art. no. 073035. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad617a>, Registrované v: WOS
3. [1.1] CORAIOLA, Marco - SVETOGOROV, Aleksandr E. - HAXELL, Daniel Z. - SABONIS, Deividas - HINDERLING, Manuel - TEN KATE, Sofieke C. - CHEAH, Erik - KRIZEK, Filip - SCHOTT, Rudiger - WEGSCHEIDER, Werner - CUEVAS, Juan Carlos - BELZIG, Wolfgang - NICHELE, Fabrizio. Flux-Tunable Josephson Diode Effect in a Hybrid Four-Terminal Josephson Junction. In ACS NANO, 2024, vol. 18, no. 12, pp. 9221-9231. ISSN 1936-0851. Dostupné na: <https://doi.org/10.1021/acsnano.4c01642>, Registrované v: WOS
4. [1.1] DAVYDOVA, Margarita - GEIER, Max - FU, Liang. Nonreciprocal superconductivity. In SCIENCE ADVANCES, 2024, vol. 10, no. 48, art. no. eadr4817. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.adr4817>, Registrované v: WOS
5. [1.1] DE SIMONI, Giorgio - GIAZOTTO, Francesco. Quasi-ideal feedback-loop supercurrent diode. In PHYSICAL REVIEW APPLIED, 2024, vol. 21, no. 6, art. no. 064058. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.21.064058>, Registrované v: WOS
6. [1.1] FU, Pei-Hao - XU, Yong - YANG, Shengyuan A. - LEE, Ching Hua - ANG, Yee Sin - LIU, Jun-Feng. Field-effect Josephson diode via asymmetric spin-momentum locking states. In PHYSICAL REVIEW APPLIED, 2024, vol. 21, no. 5, art. no. 054057. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.21.054057>, Registrované v: WOS
7. [1.1] ILIC, Stefan - VIRTANEN, Pauli - CRAWFORD, Daniel - HEIKKILA, Tero T. - BERGERET, F. Sebastian. Superconducting diode effect in diffusive superconductors and Josephson junctions with Rashba spin-orbit coupling. In PHYSICAL REVIEW B, 2024, vol. 110, no. 14, art. no. L140501. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.L140501>, Registrované v: WOS
8. [1.1] LI, Feng - HIGASHI, Masayuki - SATO, Taichi - TANAKA, Masamitsu - FUJIMAKI, Akira. Intrinsic superconducting phase battery. In APPLIED PHYSICS LETTERS, 2024, vol. 124, no. 22, art. no. 222601. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0212240>, Registrované v: WOS
9. [1.1] LOTFIZADEH, Neda - SCHIELA, William F. - PEKERTEN, Baris - YU, Peng - ELFEKY, Bassel Heiba - STRICKLAND, William M. - MATOS-ABIAGUE,

Alex - SHABANI, Javad. Superconducting diode effect sign change in epitaxial Al-InAs Josephson junctions. In COMMUNICATIONS PHYSICS, 2024, vol. 7, no. 1, art. no. 120. ISSN 2399-3650. Dostupné na: <https://doi.org/10.1038/s42005-024-01618-5>, Registrované v: WOS

10. [1.1] MATUTE-CANADAS, F. J. - TOSI, L. - YEYATI, A. Levy. Quantum Circuits with Multiterminal Josephson-Andreev Junctions. In PRX QUANTUM, 2024, vol. 5, no. 2, art. no. 020340. Dostupné na:

<https://doi.org/10.1103/PRXQuantum.5.020340>, Registrované v: WOS

11. [1.1] SCHIELA, William F. - YU, Peng - SHABANI, Javad. Progress in Superconductor-Semiconductor Topological Josephson Junctions. In PRX QUANTUM, 2024, vol. 5, no. 3, art. no. 030102. Dostupné na:

<https://doi.org/10.1103/PRXQuantum.5.030102>, Registrované v: WOS

12. [1.1] WANG, J. - JIANG, Y. - WANG, Juan Juan - LIU, Jun-Feng. Efficient Josephson diode effect on a two-dimensional topological insulator with asymmetric magnetization. In PHYSICAL REVIEW B, 2024, vol. 109, no. 7, art. no. 075412. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.109.075412>, Registrované v: WOS

13. [1.1] ZAZUNOV, A. - RECH, J. - JONCKHEERE, T. - GREMAUD, B. - MARTIN, T. - EGGER, R. Nonreciprocal charge transport and subharmonic structure in voltage-biased Josephson diodes. In PHYSICAL REVIEW B, 2024, vol. 109, no. 2, art. no. 024504. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.109.024504>, Registrované v: WOS

14. [1.2] DAVYDOVA, Margarita - GEIER, Max - FU, Liang. Nonreciprocal superconductivity. In Science Advances, 2024-11-29, 10, 48, pp. Dostupné na:

<https://doi.org/10.1126/sciadv.adr4817>, Registrované v: SCOPUS

ADCA149 COSTA, Andreas** - FABIAN, Jaroslav - KOCHAN, Denis. Microscopic study of the Josephson supercurrent diode effect in Josephson junctions based on two-dimensional electron gas. In Physical Review B, 2023, vol. 108, no. 5, art. no. 054522. (2022: 3.7 - IF, Q2 - JCR, 1.468 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.108.054522>

Citácie:

1. [1.1] ANGEHRN, Georg - LEGG, Henry F. - LOSS, Daniel - KLINOVAJA, Jelena. Relations between normal state nonreciprocal transport and the superconducting diode effect in the trivial and topological phases. In APPLIED PHYSICS LETTERS, 2024, vol. 125, no. 2, art. no. 023507. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0216679>, Registrované v: WOS

2. [1.1] BANERJEE, Sayan - SCHEURER, Mathias S. Altermagnetic superconducting diode effect. In PHYSICAL REVIEW B, 2024, vol. 110, no. 2, art. no. 024503. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.110.024503>, Registrované v: WOS

3. [1.1] BANERJEE, Sayan - SCHEURER, Mathias S. Enhanced Superconducting Diode Effect due to Coexisting Phases. In PHYSICAL REVIEW LETTERS, 2024, vol. 132, no. 4, art. no. 046003. ISSN 0031-9007. Dostupné na:

<https://doi.org/10.1103/PhysRevLett.132.046003>, Registrované v: WOS

4. [1.1] CAYAO, Jorge - NAGAOSA, Naoto - TANAKA, Yukio. Enhancing the Josephson diode effect with Majorana bound states. In PHYSICAL REVIEW B, 2024, vol. 109, no. 8, art. no. L081405. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.109.L081405>, Registrované v: WOS

5. [1.1] CHENG, Qiang - MAO, Yue - SUN, Qing-Feng. Field-free Josephson diode effect in altermagnet/normal metal/altermagnet junctions. In PHYSICAL REVIEW B, 2024, vol. 110, no. 1, art. no. 014518. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.110.014518>, Registrované v: WOS

6. [1.1] DEBNATH, Debika - DUTTA, Paramita. Gate-tunable Josephson diode effect in Rashba spin-orbit coupled quantum dot junctions. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 17, art. no. 174511. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.174511>, Registrované v: WOS

7. [1.1] FRACASSI, Samuele - TRAVERSO, Simone - ZIANI, Niccolo Traverso - CARREGA, Matteo - HEUN, Stefan - SASSETTI, Maura. Anomalous supercurrent and diode effect in locally perturbed topological Josephson junctions. In *APPLIED PHYSICS LETTERS*, 2024, vol. 124, no. 24, art. no. 242601. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0210660>, Registrované v: WOS

8. [1.1] KOKKELER, Tim - GOLUBOV, Alexander - TANAKA, Yukio. Positive magnetoresistance in anapole superconductor junctions. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 17, art. no. 174513. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.174513>, Registrované v: WOS

9. [1.1] KOKKELER, Tim - TOKATLY, Ilya - BERGERET, F. Sebastian. Nonreciprocal superconducting transport and the spin Hall effect in gyrotropic structures. In *SCIPOST PHYSICS*, 2024, vol. 16, no. 2, art. no. 055. ISSN 2542-4653. Dostupné na: <https://doi.org/10.21468/SciPostPhys.16.2.055>, Registrované v: WOS

10. [1.1] LOTFIZADEH, Neda - SCHIELA, William F. - PEKERTEN, Baris - YU, Peng - ELFEKY, Bassel Heiba - STRICKLAND, William M. - MATOS-ABIAGUE, Alex - SHABANI, Javad. Superconducting diode effect sign change in epitaxial Al-InAs Josephson junctions. In *COMMUNICATIONS PHYSICS*, 2024, vol. 7, no. 1, art. no. 120. ISSN 2399-3650. Dostupné na: <https://doi.org/10.1038/s42005-024-01618-5>, Registrované v: WOS

11. [1.1] MONAGHAN, R. D. - TETTAMANZI, G. C. The role of Rashba spin-orbit induced spin textures in the anomalous Josephson effect. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 10, art. no. 1059e8. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad7c01>, Registrované v: WOS

12. [1.1] RAZA, Nauman - ARSHED, Saima - ALHUSSAIN, Ziyad A. New bright and dark stochastic optical solitons related to an eighth-order NLSE in the presence of higher order polynomial nonlinearity. In *OPTICAL AND QUANTUM ELECTRONICS*, 2024, vol. 56, no. 3, art. no. 451. ISSN 0306-8919. Dostupné na: <https://doi.org/10.1007/s11082-023-05982-4>, Registrované v: WOS

13. [1.1] ROIG, Merce - KOTETES, Panagiotis - ANDERSEN, Brian M. Superconducting diodes from magnetization gradients. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 14, art. no. 144503. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.144503>, Registrované v: WOS

14. [1.1] SCHRADE, Constantin - FATEMI, Valla. Dissipationless nonlinearity in quantum material Josephson diodes. In *PHYSICAL REVIEW APPLIED*, 2024, vol. 21, no. 6, art. no. 064029. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.21.064029>, Registrované v: WOS

15. [1.1] SOORI, Abhiram. Josephson diode effect in junctions of superconductors with band asymmetric metals. In *JOURNAL OF PHYSICS-CONDENSED MATTER*, 2024, vol. 36, no. 33, art. no. 335303. ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/1361-648X/ad4aad>, Registrované v: WOS

16. [1.1] SOUTO, Ruben Seoane - LEIJNSE, Martin - SCHRADE, Constantin - VALENTINI, Marco - KATSAROS, Georgios - DANON, Jeroen. Tuning the Josephson diode response with an ac current. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 2, art. no. L022002. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.L022002>, Registrované v: WOS

17. [1.1] V. PUTILOV, A. - V. MIRONOV, S. - BUZDIN, A. I. *Nonreciprocal electron transport in finite-size superconductor/ferromagnet bilayers with strong spin-orbit coupling*. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 1, art. no. 014510. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.109.014510>, Registrované v: WOS

ADCA150 CUBISS, J. G.** - BARZAKH, A. E. - ANDREYEV, A. N. - AL MONTHERY, M. - ALTHUBITI, N. - ANDEL, B. - ANTALIC, S. - ATANASOV, D. - BLAUM, K. - COCOLIOS, T. E. - DAY GOODACRE, T. - DE GROOTE, R. P. - DE ROUBIN, A. - FAROOQ-SMITH, G. J. - FEDOROV, D. V. - FEDOSSEEV, V. N. - FERRER, R. - FINK, D. A. - GAFFNEY, L. P. - GHYS, L. - GREDLEY, A. - HARDING, R. D. - HERFURT, F. - HUYSE, M. - IMAI, N. - JOSS, D. T. - KÖSTER, U. - KREIM, S. - LIBERATI, V. - LUNNEY, D. - LYNCH, K. M. - MANEA, V. - MARSH, B. A. - MARTINEZ PALENZUELA, Y. - MOLKANOV, P. L. - MOSAT, P. - NEIDHERR, D. - O'NEILL, G. G. - PAGE, R. D. - PROCTER, T. J. - RAPISARDA, E. - ROSENBUSCH, M. - ROTHE, S. - SANDHU, K. - SCHWEIKHARD, L. - SELIVERSTOV, M. D. - SELS, S. - SPAGNOLETTI, P. - TRUESDALE, V. L. - VAN BEVEREN, C. - VAN DUPPEN, P. - VEINHARD, M. - VENHART, Martin - VESELSKÝ, Martin - WEARING, F. - WELKER, A. - WIENHOLTZ, F. - WOLF, R. N. - ZEMLYANOV, S. G. - ZUBERT, K. Change in structure between the $I=1/2$ states in Tl-181 and (177)(,)(179)AU Change in structure between the $I=1/2$ states in Tl-181 and (177)(,)(179)AU. In *Physics Letters B*, 2018, vol. 786, p. 355-363. (2017: 4.254 - IF, Q1 - JCR, 2.336 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0370-2693. Dostupné na:

<https://doi.org/10.1016/j.physletb.2018.10.005>

Citácie:

1. [1.1] ANJANA, A. - THOMAS, Nicemon - JOSEPH, Antony. *A systematic study of the ground state properties of gold nuclei near the neutron drip line using HFB formalism*. In *NUCLEAR PHYSICS A*, 2024, vol. 1047, no., art. no. 122889. ISSN 0375-9474. Dostupné na: <https://doi.org/10.1016/j.nuclphysa.2024.122889>, Registrované v: WOS

2. [1.1] KOSZORUS, Agota - CHEAL, Bradley. *Laser spectroscopy of isomers*. In *EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS*, 2024, vol. 233, no. 5, pp. 1133-1149. ISSN 1951-6355. Dostupné na: <https://doi.org/10.1140/epjs/s11734-024-01130-5>, Registrované v: WOS

ADCA151 CUCCHIERI, A. - MAAS, Axel - MENDES, T. Three-point vertices in Landau-gauge Yang-Mills theory. In *Physical Review D*, 2008, vol. 77, no. 9, art. no. 094510. (2007: 4.696 - IF, Q1 - JCR, 2.593 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: <https://doi.org/10.1103/PhysRevD.77.094510>

Citácie:

1. [1.1] AGUILAR, A. C. - DE SOTO, F. - FERREIRA, M. N. - PAPAVALASSILIOU, J. - PINTO-GOMEZ, F. - RODRIGUEZ-QUINTERO, J. - SANTOS, L. R. *Nonperturbative four-gluon vertex in soft kinematics*. In *PHYSICS LETTERS B*, 2024, vol. 858, no., art. no. 139065. ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2024.139065>, Registrované v: WOS

2. [1.1] AGUILAR, A. C. - FERREIRA, M. N. - PAPAVALASSILIOU, J. - SANTOS, L. R. *Four-gluon vertex in collinear kinematics*. In *EUROPEAN PHYSICAL JOURNAL C*, 2024, vol. 84, no. 7, art. no. 676. ISSN 1434-6044. Dostupné na: <https://doi.org/10.1140/epjc/s10052-024-12970-9>, Registrované v: WOS

3. [1.1] ALFARO, J. Alejandro - GUTIERREZ-GUERRERO, L. X. - ALBINO, Luis - RAYA, Alfredo. *Perturbative Analysis of the Three Gluon Vertex in Different Gauges at One-Loop*. In *FEW-BODY SYSTEMS*, 2024, vol. 65, no. 4, art. no. 89.

ISSN 0177-7963. Dostupné na: <https://doi.org/10.1007/s00601-024-01956-8>, Registrované v: WOS

4. [1.1] BARRIOS, N. - PELAEZ, M. - GUIMARAES, M. S. - MINTZ, B. W. - PALHARES, L. F. Ghost-gluon vertex in the presence of the Gribov horizon: General kinematics. In *PHYSICAL REVIEW D*, 2024, vol. 109, no. 9, art. no. 094039. ISSN 2470-0010. Dostupné na:

<https://doi.org/10.1103/PhysRevD.109.094039>, Registrované v: WOS

5. [1.1] BARRIOS, Nahuel - DE FABRITIIS, Philipe - PELAEZ, Marcela. Four-gluon vertex from the Curci-Ferrari model at one-loop order. In *PHYSICAL REVIEW D*, 2024, vol. 109, no. 9, art. no. L091502. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.109.L091502>, Registrované v: WOS

6. [1.1] COLACO, Manuel - OLIVEIRA, Orlando - SILVA, Paulo J. Four-gluon vertex from lattice QCD. In *PHYSICAL REVIEW D*, 2024, vol. 109, no. 7, art. no. 074502. ISSN 2470-0010. Dostupné na:

<https://doi.org/10.1103/PhysRevD.109.074502>, Registrované v: WOS

7. [1.1] PINTO-GOMEZ, F. - DE SOTO, F. - RODRIGUEZ-QUINTERO, J. Complete analysis of the Landau-gauge three-gluon vertex from lattice QCD. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 1, art. no. 014005. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.014005>, Registrované v: WOS

8. [1.1] ZIERLER, Fabian - ALKOFER, Reinhard. Dependence of the Landau gauge ghost-gluon-vertex on the number of flavors. In *PHYSICAL REVIEW D*, 2024, vol. 109, no. 7, art. no. 074024. ISSN 2470-0010. Dostupné na:

<https://doi.org/10.1103/PhysRevD.109.074024>, Registrované v: WOS

9. [1.2] COLAÇO, Manuel - OLIVEIRA, Orlando - SILVA, Paulo J. The four-gluon vertex in Landau gauge. In *Proceedings of Science*, 2024-11-06, 453, pp., Registrované v: SCOPUS

ADCA152 ČAVOJSKÝ, Miroslav - BALOG, Martin - DVOŘÁK, Jiří - ILLEKOVÁ, Emília - ŠVEC, Peter - KRÍŽIK, Peter - JANIČKOVIČ, Dušan - SIMANČÍK, František. Microstructure and properties of extruded rapidly solidified AlCr₄Fe_{1.1}Si_{0.3} (at. %) alloys. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing*, 2012, vol. 549, p. 233-241. (2011: 2.003 - IF, Q2 - JCR, 1.740 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, SCOPUS, WOS). ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2012.04.051>

Citácie:

1. [1.1] DE ARAUJO, A.P.M. - TEODORO, N.S. - PEREIRA, L.H. - KIMINAMI, C.S. - UHLENWINKEL, V. - GARGARELLA, P. Comparing the Properties of Metastable Quasicrystal-Forming Al₉₅Fe₂Cr₂Ti₁ Alloy Prepared by Uniaxial Hot Compaction and Powder Bed Fusion-Laser Beam. In *JOM*. ISSN 1047-4838, 2024 JUL 29 2024. Dostupné na: <https://doi.org/10.1007/s11837-024-06774-1>, Registrované v: WOS

2. [1.1] ZHANG, X.K. - LI, L.J. - DENG, C.Y. - PENG, Z.W. Toward strength-ductility synergy in Al-Mg alloys: augmenting solute Mg concentration and strain-hardening ability via melt spinning and hot extrusion. In *JOURNAL OF MATERIALS SCIENCE*. ISSN 0022-2461, JUN 2024, vol. 59, no. 23, p. 10541-10555. Dostupné na: <https://doi.org/10.1007/s10853-024-09803-1>, Registrované v: WOS

ADCA153 ČECHOVÁ, Katarína - MAŤKO, Igor - RUSNÁK, Jaroslav - ŠVAJDLENKOVÁ, Helena - KLBIK, Ivan - LAKOTA, Ján** - ŠAUŠA, Ondrej**. Microstructural free volume and dynamics of cryoprotective DMSO-water mixtures at low DMSO concentration. In *RSC Advances*, 2019, vol. 9, no. 59, p. 34299-34310. (2018: 3.049

- IF, Q2 - JCR, 0.807 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2046-2069. Dostupné na: <https://doi.org/10.1039/c9ra06305f>

Citácie:

1. [1.1] TAKEKIYO, T. - YAMADA, S. - HIRATA, T. - ISHIZAKI, T. - KURODA, K. - YOSHIMURA, Y. Relationship Between Cryoprotectant Potential and Protein Hydration in Aqueous Zwitterionic Solutions. In BIOPOLYMERS. ISSN 0006-3525, 2024, vol. , no. , p., Registrované v: WOS

2. [1.1] TAKEKIYO, T. - YAMADA, S. - UTO, T. - NAKAYAMA, M. - HIRATA, T. - ISHIZAKI, T. - KURODA, K. - YOSHIMURA, Y. Protein Cryoprotectant Ability of the Aqueous Zwitterionic Solution. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, JAN 4 2024, vol. 128, no. 2, p. 526-535., Registrované v: WOS

ADCA154 D'; ARIANO, G.M. - PERINOTTI, P. - SEDLÁK, Michal. Extremal quantum protocols. In Journal of Mathematical Physics, 2011, vol. 52, no. 8, art. no. 082202. (2010: 1.291 - IF, Q2 - JCR, 0.913 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0022-2488. Dostupné na: <https://doi.org/10.1063/1.3610676>

Citácie:

1. [1.1] CHIRIBELLA, Giulio. Extreme quantum states and processes, and extreme points of general spectrahedra in finite dimensional algebras. In INTERNATIONAL JOURNAL OF QUANTUM INFORMATION, 2024, vol. 22, no. 05. ISSN 0219-7499. Dostupné na: <https://doi.org/10.1142/S0219749924400045>, Registrované v: WOS

2. [1.1] LI, Hang - WANG, Kai - WEI, Shijie - YANG, Fan - CHEN, Xinyu - SANDERS, Barry C. - WANG, Dong-Sheng - LONG, Gui-Lu. Experimental simulation of quantum superchannels. In NEW JOURNAL OF PHYSICS, 2024, vol. 26, no. 1, art. no. 013037. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad1c91>, Registrované v: WOS

3. [1.1] PELLONPAA, Juha-Pekka - HAAPASALO, Erkkka - UOLA, Roope. Barycentric decomposition for quantum instruments. In JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, 2024, vol. 57, no. 9, art. no. 095302. ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/ad233c>, Registrované v: WOS

ADCA155 DANIEL, A.V. - TER-AKOPIAN, G.M. - HAMILTON, J.H. - RAMAZZA, A.V. - KORMICKI, J. - POPEKO, G.S. - FOMICHEV, A.S. - RODIN, A.M. - OGANESSIAN, Y.T. - COLE, J.D. - HWANG, J.K. - LUO, Y.X. - FONG, D. - GORE, P. - JANDEL, Marián - KLIMAN, Ján - KRUPA, Ľuboš - RASMUSSEN, J.O. - WU, S.C. - LEE, I.Y. - STOYER, M.A. - DONANGELO, R. - GREINER, W. Ternary fission of ^{252}Cf : 3368 keV γ radiation from ^{10}Be fragments. In Physical review C : nuclear physics, 2004, vol. 69, no. 4, art. no. 041305. (2003: 2.708 - IF, karentované - CCC). (2004 - Current Contents, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.104.014616>

Citácie:

1. [1.1] ASHADUZZAMAN, Md - DI NITTO, Antonio - VARDACI, Emanuele - LA RANA, Giovanni - SETARO, Pia Antonella - BANERJEE, Tathagata - VANZANELLA, Antonio - ALIFANO, Giuseppe. Search for True Ternary Fission in Reaction $\text{SUP40}/\text{SUPAr}+\text{SUP208}/\text{SUPPb}$. In APPLIED SCIENCES-BASEL, 2024, vol. 14, no. 18, art. no. 8522. Dostupné na: <https://doi.org/10.3390/app14188522>, Registrované v: WOS

2. [1.1] JINDAL, Chahat - SHARMA, Manoj K. Role of deformations and orientation effects in binary and ternary decay of the ^{252}Cf nucleus. In PHYSICAL REVIEW C, 2024, vol. 109, no. 5, art. no. 054607. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.054607>, Registrované v:

WOS

3. [1.1] PAHLAVANI, M. R. - BABI, M. Saeidi. Study of the SUP4/SUPHe, SUP10/SUPBe, SUP14/SUPC, SUP14/SUPN, and SUP16/SUPO accompanied ternary fission of SUP248/SUPCf isotope in the fragments equatorial geometry. In CHINESE JOURNAL OF PHYSICS, 2024, vol. 89, no., pp. 469-480. ISSN 0577-9073. Dostupné na: <https://doi.org/10.1016/j.cjph.2024.03.025>, Registrované v: WOS

ADCA156 DANIEL, R. - KECKES, J. - MAŤKO, Igor - BURGHAMMER, M. - MITTERER, C. Origins of microstructure and stress gradients in nanocrystalline thin films: The role of growth parameters and self-organization. In Acta Materialia, 2013, vol. 61, no. 16, p. 6255-6266. (2012: 3.941 - IF, Q1 - JCR, 3.370 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 1359-6454. Dostupné na: <https://doi.org/10.1016/j.actamat.2013.07.009>

Citácie:

1. [1.1] LI, Y. G. - ZHAO, Y. N. - CHEN, Z. T. The contradictory feather of Cr thin film compressive residual stress generation under energetic depositions. In RADIATION EFFECTS AND DEFECTS IN SOLIDS, 2024, vol. 179, no. 11-12, pp. 1632-1643. ISSN 1042-0150. Dostupné na:

<https://doi.org/10.1080/10420150.2024.2359688>, Registrované v: WOS

2. [1.1] LOTZE, Gudrun - IYER, Anand H. S. - BACKE, Olof - KALBFLEISCH, Sebastian - COLLIANDER, Magnus Hornqvist. In situ characterization of stresses, deformation and fracture of thin films using transmission X-ray nanodiffraction microscopy. In JOURNAL OF SYNCHROTRON RADIATION, 2024, vol. 31, no., pp. 42-54. ISSN 0909-0495. Dostupné na:

<https://doi.org/10.1107/S1600577523010093>, Registrované v: WOS

3. [1.1] VARELA, L. B. - AVILA, P. R. T. - MILETIC, A. - BOUSSER, E. - MENDEZ, J. M. - KLEMBERG-SAPIEHA, J. E. - MARTINU, L. Residual stress depth profiles self-developed in cathodic arc deposited Ti-Al-N coatings prepared at different constant substrate bias values. In JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A, 2024, vol. 42, no. 4, art. no. 043104. ISSN 0734-2101. Dostupné na: <https://doi.org/10.1116/6.0003555>, Registrované v: WOS

4. [1.1] WU, Jiaojiao - SHEN, Mingli - WANG, Wei - WANG, Yanfeng - CHENG, Yuxian - ZHU, Shenglong. Insight into oxidation difference between Cr₂N and CrN coatings. In SURFACES AND INTERFACES, 2024, vol. 51, no., art. no. 104626. ISSN 2468-0230. Dostupné na:

<https://doi.org/10.1016/j.surfin.2024.104626>, Registrované v: WOS

ADCA157 DANIEL, Rostislav** - ZALESK, Jakub - MAŤKO, Igor - BAUMEGGER, Walter - HOHENWARTER, Anton - GEORGE, Easo P. - KECKES, Jozef. Microstructure-dependent phase stability and precipitation kinetics in equiatomic CrMnFeCoNi high-entropy alloy: Role of grain boundaries. In Acta Materialia, 2022, vol. 223, art. no. 117470. (2021: 9.209 - IF, Q1 - JCR, 2.828 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1359-6454. Dostupné na: <https://doi.org/10.1016/j.actamat.2021.117470>

Citácie:

1. [1.1] AN, Zibing - MAO, Shengcheng - JIANG, Cheng - LI, Ziyao - WU, Shichang - ZHAI, Yadi - WANG, Li - LIU, Yinong - ZHANG, Ze - HAN, Xiaodong. Achieving superior combined cryogenic strength and ductility in a high-entropy alloy via the synergy of low stacking fault energy and multiscale heterostructure. In SCRIPTA MATERIALIA, 2024, vol. 239, no., art. no. 115809. ISSN 1359-6462. Dostupné na: <https://doi.org/10.1016/j.scriptamat.2023.115809>, Registrované v: WOS

2. [1.1] DU, Yin - LI, Tao - PEI, Xuhui - ZHOU, Qing - WANG, Haifeng.

Nanoscratching Mechanical Performance of the TiZrHfCuBe High-Entropy Metallic Glass. In ACTA METALLURGICA SINICA, 2024, vol. 60, no. 11. ISSN 0412-1961. Dostupné na: <https://doi.org/10.11900/0412.1961.2023.00267>, Registrované v: WOS

3. [1.1] LI, Boya - LUO, Weikai - HARUMOTO, Takashi - SHI, Ji. Effect of Si concentration and substrate temperature on the microstructure and magnetic properties of FeCoNiCu 0.5 Si x high entropy alloy films. In JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, 2024, vol. 600, no., art. no. 172134. ISSN 0304-8853. Dostupné na:

<https://doi.org/10.1016/j.jmmm.2024.172134>, Registrované v: WOS

4. [1.1] LI, Y. J. - BAHA, S. - LAPLANCHE, G. - LUDWIG, A. Atomic-scale investigation of Mo distribution and its effect on phase stability of a nanocrystalline CrCoNi-based medium-entropy alloy. In JOURNAL OF ALLOYS AND COMPOUNDS, 2024, vol. 1002, no., art. no. 175226. ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.175226>, Registrované v: WOS

5. [1.1] SUN, Haotian - LIU, Tian - OKA, Hiroshi - HASHIMOTO, Naoyuki - CAO, Yu - LUO, Rui. Role of aging temperature on thermal stability of Co-free Cr_{0.8}FeMn_{1.3}Ni_{1.3} high-entropy alloy: Decomposition and embrittlement at intermediate temperatures. In MATERIALS CHARACTERIZATION, 2024, vol. 210, no., art. no. 113804. ISSN 1044-5803. Dostupné na:

<https://doi.org/10.1016/j.matchar.2024.113804>, Registrované v: WOS

6. [1.1] YIN, K. X. - HUANG, Z. W. - WU, B. L. - ZHANG, G. J. - TIAN, Q. W. - WANG, Y. N. Prediction of phase stabilities of solid solutions for high entropy alloys. In ACTA MATERIALIA, 2024, vol. 263, no., art. no. 119445. ISSN 1359-6454. Dostupné na: <https://doi.org/10.1016/j.actamat.2023.119445>, Registrované v: WOS

7. [1.1] ZHANG, Yafang - ZHAO, Xiaojun - LIU, Sainan - LI, Wei - ZHOU, Kechao - XIAO, Lairong - SONG, Miao - CAI, Zhenyang. Thermal stabilizing and toughening of a dual-phase Nb alloy by tuning stabilizing element C in Nb-BCC. In JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY, 2024, vol. 186, no., pp. 207-218. ISSN 1005-0302. Dostupné na:

<https://doi.org/10.1016/j.jmst.2023.09.060>, Registrované v: WOS

ADCA158 DANIŠKA, Michal - GENDIAR, Andrej. Analysis of quantum spin models on hyperbolic lattices and Bethe lattice. In Journal of Physics A: Mathematical and Theoretical, 2016, vol. 49, no. 14, art. no. 145003. (2015: 1.933 - IF, Q1 - JCR, 1.028 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8113/49/14/145003>

Citácie:

1. [1.1] GOETZ, Anika - REIN, Gabriel - INACIO, Joao Carvalho - ASSAAD, Fakher F. Hubbard and Heisenberg models on hyperbolic lattices: Metal-insulator transitions, global antiferromagnetism, and enhanced boundary fluctuations. In PHYSICAL REVIEW B, 2024, vol. 110, no. 23, art. no. 235105. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.235105>, Registrované v: WOS

2. [1.1] LUKIN, I. - SOTNIKOV, A. G. Corner transfer matrix renormalization group approach in the zoo of Archimedean lattices. In PHYSICAL REVIEW E, 2024, vol. 109, no. 4, art. no. 045305. ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.109.045305>, Registrované v: WOS

3. [1.1] SHANKAR, G. - MACIEJKO, Joseph. Hyperbolic Lattices and Two-Dimensional Yang-Mills Theory. In PHYSICAL REVIEW LETTERS, 2024, vol. 133, no. 14, art. no. 146601. ISSN 0031-9007. Dostupné na:

<https://doi.org/10.1103/PhysRevLett.133.146601>, Registrované v: WOS
 4. [1.2] OKUNISHI, Kouichi - TAKAYANAGI, Tadashi. Statistical mechanics approach to the holographic renormalization group: Bethe lattice Ising model and p-adic AdS/CFT. In *Progress of Theoretical and Experimental Physics*, 2024-01-01, 2024, 1, pp. Dostupné na: <https://doi.org/10.1093/ptep/ptad156>, Registrované v: SCOPUS

ADCA159 DBEYSSI, A. - TOMASI-GUSTAFSSON, E. - GAKH, G.I. - ADAMUŠČIN, Cyril. Experimental constraint on the ρ -meson form factors in the time-like region. In *Physical Review C. Nuclear physics*, 2012, vol. 85, no. 4, art. no. 048201. (2011: 3.308 - IF, 2.962 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.85.048201>

Citácie:

1. [1.1] ROJAS, Antonio - TOLEDO, Genaro. ρ meson magnetic dipole moment from BABAR $e\text{SUP}^+/\text{SUP}^- e\text{SUP}^+/\text{SUP}^- \rightarrow \pi\text{SUP}^+/\text{SUP}^- \pi\text{SUP}^+/\text{SUP}^- \pi\text{SUP}^0/\text{SUP}^- \pi\text{SUP}^0/\text{SUP}^-$ cross section measurement. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 5, art. no. 056037. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.056037>, Registrované v: WOS

ADCA160 DE BASTIANI, Michele** - JALMOOD, Rawan - LIU, Jiang - OSSIG, Christina - VLK, Aleš - VĚGSÖ, Karol - BABICS, Maxime - ISIKGOR, Furkan H. - SELVIN, Anand S. - AZMI, Randi - UGUR, Esma - BANERJEE, Swarnendu - MIRABELLI, Alessandro J. - AYDIN, Erkan - ALLEN, Thomas G. - REHMAN, Atteq Ur - VAN KERSCHAUER, Emmanuel - ŠIFFALOVIČ, Peter - STUCKELBERGER, Michael E. - LEDINSKY, Martin - DE WOLF, Stefaan. Monolithic Perovskite/Silicon Tandems with 28% Efficiency: Role of Silicon-Surface Texture on Perovskite Properties. In *Advanced Functional Materials*, 2023, vol. 33, no. 4, art. no. 2205557. (2022: 19 - IF, Q1 - JCR, 5.565 - SJR, Q1 - SJR). ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202205557>

Citácie:

1. [1.1] ALAM, Shahidul - PETOUKHOFF, Christopher E. - JURADO, Jose P. - ALDOSARI, Haya - JIANG, Xinyu - VARY, Tomas - AL NASSER, Hamza - DAHMAN, Amr - ALTHOBAITI, Wejdan - LOPEZ, Sandra P. Gonzalez - ALSUFYANI, Wejdan - MUELLER-BUSCHBAUM, Peter - NADAZDY, Vojtech - HOPPE, Harald - LAQUAI, Frederic. Influence of thermal annealing on microstructure, energetic landscape and device performance of P3HT:PCBM-based organic solar cells. In *JOURNAL OF PHYSICS-ENERGY*, 2024, vol. 6, no. 2, art. no. 025013. ISSN 2515-7655. Dostupné na: <https://doi.org/10.1088/2515-7655/ad2498>, Registrované v: WOS

2. [1.1] AYDIN, Erkan - ALLEN, Thomas G. - DE BASTIANI, Michele - RAZZAQ, Arsalan - XU, Lujia - UGUR, Esma - LIU, Jiang - DE WOLF, Stefaan. Pathways toward commercial perovskite/silicon tandem photovoltaics. In *SCIENCE*, 2024, vol. 383, no. 6679, pp. 162-+. ISSN 0036-8075. Dostupné na: <https://doi.org/10.1126/science.adh3849>, Registrované v: WOS

3. [1.1] CHEN, Qianyu - ZHOU, Long - ZHANG, Jiaojiao - CHEN, Dazheng - ZHU, Weidong - XI, He - ZHANG, Jincheng - ZHANG, Chunfu - HAO, Yue. Recent Progress of Wide Bandgap Perovskites towards Two-Terminal Perovskite/Silicon Tandem Solar Cells. In *NANOMATERIALS*, 2024, vol. 14, no. 2, art. no. 202. Dostupné na: <https://doi.org/10.3390/nano14020202>, Registrované v: WOS

4. [1.1] HARTER, Angelika - ARTUK, Kerem - MATHIES, Florian - KARALIS, Orestis - HEMPEL, Hannes - AL-ASHOURI, Amran - ALBRECHT, Steve - SCHLATMANN, Rutger - BALLIF, Christophe - STANNOWSKI, Bernd - WOLFF,

- Christian M. Perovskite/Silicon Tandem Solar Cells Above 30% Conversion Efficiency on Submicron-Sized Textured Czochralski-Silicon Bottom Cells with Improved Hole-Transport Layers. In *ACS APPLIED MATERIALS & INTERFACES*, 2024, vol. 16, no. 45, pp. 62817-62826. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.4c09264>, Registrované v: WOS
5. [1.1] JIANG, Shengguo - DING, Zetao - LI, Xin - ZHANG, Liping - YING, Zhiqin - YANG, Xi - YANG, Zhenhai - YANG, Weichuang - ZENG, Yuheng - YE, Jichun. Advancing Monolithic Perovskite/TOPCon Tandem Solar Cells by Customizing Industrial-Level Micro-Nano Structures. In *ADVANCED FUNCTIONAL MATERIALS*, 2024, vol. 34, no. 34. ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202401900>, Registrované v: WOS
6. [1.1] LAN, Zhineng - HUANG, Hao - LU, Yi - QU, Shujie - WANG, Min - DU, Shuxian - YANG, Yingying - SUN, Changxu - ZHANG, Qiang - SUO, Yi - WANG, Xinxin - YAN, Luyao - CUI, Peng - ZHAO, Zhiguo - LI, Meicheng. Homogenizing the Electron Extraction via Eliminating Low-Conductive Contacts Enables Efficient Perovskite Solar Cells with Reduced Up-Scaling Losses. In *ADVANCED FUNCTIONAL MATERIALS*, 2024, vol. 34, no. 32, art. no. 2316591. ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202316591>, Registrované v: WOS
7. [1.1] LI, Yucheng - SHI, Biao - XU, Qiaojing - YAN, Lingling - REN, Ningyu - LI, Yuxiang - HAN, Wei - ZHU, Zhao - ZHANG, Yubo - LIU, Jingjing - SUN, Cong - WANG, Sanlong - HUANG, Qian - ZHANG, Dekun - REN, Huizhi - DU, Xiaona - ZHAO, Ying - ZHANG, Xiaodan. CsCl induced efficient fully-textured perovskite/crystalline silicon tandem solar cell. In *NANO ENERGY*, 2024, vol. 122, no., art. no. 109285. ISSN 2211-2855. Dostupné na: <https://doi.org/10.1016/j.nanoen.2024.109285>, Registrované v: WOS
8. [1.1] LI, Zong-Zheng - GUO, Chaorong - LV, Wenlei - HUANG, Peng - ZHANG, Yongyou. Machine Learning-Enabled Optical Architecture Design of Perovskite Solar Cells. In *JOURNAL OF PHYSICAL CHEMISTRY LETTERS*, 2024, vol. 15, no. 14, pp. 3835-3842. ISSN 1948-7185. Dostupné na: <https://doi.org/10.1021/acs.jpcllett.4c00320>, Registrované v: WOS
9. [1.1] MARCHANT, Charles - WILLIAMS, Rene M. Perovskite/silicon tandem solar cells-compositions for improved stability and power conversion efficiency. In *PHOTOCHEMICAL & PHOTOBIOLOGICAL SCIENCES*, 2024, vol. 23, no. 1, pp. 1-22. ISSN 1474-905X. Dostupné na: <https://doi.org/10.1007/s43630-023-00500-7>, Registrované v: WOS
10. [1.1] RIESEBECK, Florian - MATHIES, Florian - YOO, Danbi - TROFIMOV, Sergei - UNGER, Eva - BECKER, Christiane. Investigation of perovskite layer growth from solution on textured substrates. In *EPJ PHOTOVOLTAICS*, 2024, vol. 15, no., art. no. 19. ISSN 2105-0716. Dostupné na: <https://doi.org/10.1051/epjpv/2024017>, Registrované v: WOS
11. [1.1] YANG, Jinpeng - BAO, Qinye. Enhancing perovskite-silicon tandem solar cells through numerical optical and electric optimizations for light management. In *OPTICS EXPRESS*, 2024, vol. 32, no. 6, pp. 8614-8622. ISSN 1094-4087. Dostupné na: <https://doi.org/10.1364/OE.513887>, Registrované v: WOS
12. [1.1] YAO MEI-LING - LIAO JI-XING - LU HAO-FENG - HUANG QIANG - CUI YAN-FENG - LI XIANG - YANG XUE-YING - BAI YANG. Key issues and solutions affecting efficiency and stability of perovskite/heterojunction tandem solar cells. In *ACTA PHYSICA SINICA*, 2024, vol. 73, no. 8, art. no. 088801. ISSN 1000-3290. Dostupné na: <https://doi.org/10.7498/aps.73.20231977>, Registrované v: WOS

13. [1.1] YING, Zhiqin - YANG, Xi - WANG, Xuezheng - YE, Jichun. Towards the 10-Year Milestone of Monolithic Perovskite/Silicon Tandem Solar Cells. In *ADVANCED MATERIALS*, 2024, vol. 36, no. 37. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202311501>, Registrované v: WOS

14. [1.2] AKRAM, Waseem - LI, Xikang - AHMED, Shakeel - OUYANG, Zhengbiao - LI, Guijun. A review of life cycle assessment and sustainability analysis of perovskite/Si tandem solar cells. In *Rsc Sustainability*, 2024-12-02, 3, 1, pp. 21-36. Dostupné na: <https://doi.org/10.1039/d4su00431k>, Registrované v: SCOPUS

ADCA161 DE BOISSIEU, M. - FRANCOUAL, S. - MIHALKOVIČ, Marek - SHIBATA, K. - BARON, A.Q.R. - SIDIS, Y. - ISHIMASA, T. - WU, D. - LOGRASSO, T. - REGNAULT, L.-P. - GAHLER, F. - TSUTSUI, S. - HENNION, B. - BASTIE, P. - SATO, T.J. - TAKAKURA, H. - CURRAT, R. - TSAI, A.P. Lattice dynamics of the Zn-Mg-Sc icosahedral quasicrystal and its Zn-Sc periodic 1/1 approximant. In *Nature Materials*, 2007, vol. 6, no. 12, p. 977-984. (2006: 19.194 - IF, Q1 - JCR, 9.562 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 1476-1122. Dostupné na: <https://doi.org/10.1038/nmat2044>

Citácie:

1. [1.1] JEON, Junmo - LEE, Sungbin. Unveiling multipole physics and frustration of icosahedral magnetic quasicrystals. In *NPJ QUANTUM MATERIALS*, 2024, vol. 9, no. 1, art. no. 5. Dostupné na: <https://doi.org/10.1038/s41535-023-00617-z>, Registrované v: WOS

2. [1.1] MATSUURA, Masato - ZHANG, Jinjia - KAMIMURA, Yasushi - KOFU, Maiko - EDAGAWA, Keiichi. Singular Continuous and Nonreciprocal Phonons in Quasicrystal AlPdMn. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 13, art. no. 136101. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.136101>, Registrované v: WOS

3. [1.1] WATANABE, Shinji. Dynamical and static structure factors in hedgehog-antihedgehog order in an icosahedral 1/1 approximant crystal. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 18, art. no. 184404. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.184404>, Registrované v: WOS

ADCA162 DE LEON, Jose Alfredo - FONSECA, Alejandro - LEYVRAZ, Francois - DAVALOS, David - PINEDA, Carlos**. Pauli component erasing quantum channels. In *Physical Review A*, 2022, vol. 106, no. 4, art. no. 042604. (2021: 2.971 - IF, Q2 - JCR, 1.183 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.106.042604>

Citácie:

1. [1.1] HANTZKO, Lukas - BINKOWSKI, Lennart - GUPTA, Sabhyata. Tensorized Pauli decomposition algorithm. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 8, art. no. 085128. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad6499>, Registrované v: WOS

ADCA163 DE MARTINI, F. - BUŽEK, Vladimír - SCIARRINO, F. Experimental realization of the quantum universal NOT gate. In *Nature*, 2002, vol. 419, no. 6909, p. 815-818. (2002 - Current Contents). ISSN 0028-0836. Dostupné na: <https://doi.org/10.1038/nature01093>

Citácie:

1. [1.1] DAS, Sudipta - GUPTA, Rivu - DHAR, Himadri Shekhar - SEN(DE), Aditi. Nonclassical resource for continuous-variable telecloning with non-Gaussian advantage. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 1, art. no. 012410. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.012410>, Registrované v: WOS

DE OLIVEIRA, F.A.M. - KIM, M.S. - KNIGHT, P.L. - BUŽEK, Vladimír.
Properties of displaced number states. In *Physical Review A*, 1990, vol. 41, no. 5, p.
2645-2652. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1088/1464-4266/2/4/314>

Citácie:

1. [1.1] AGRAWAL, Ankur - V. DIXIT, Akash - ROY, Tanay - CHAKRAM, Srivatsan - HE, Kevin - NAIK, Ravi K. - SCHUSTER, David I. - CHOU, Aaron. Stimulated Emission of Signal Photons from Dark Matter Waves. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 14, art. no. 140801. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.140801>, Registrované v: WOS
2. [1.1] BOCANEGRA-GARAY, I. A. - HERNANDEZ-SANCHEZ, L. - RAMOS-PRIETO, I - SOTO-EGUIBAR, F. - MOYA-CESSA, H. M. Optical ladder operators in the Glauber-Fock oscillator array. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 3, art. no. 035216. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad20bd>, Registrované v: WOS
3. [1.1] BUSH, Kai Ryen - BORKJE, Kjetil. Proposal for observing nonclassicality in highly excited mechanical oscillators by single photon detection. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 4, art. no. 043505. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.043505>, Registrované v: WOS
4. [1.1] DENG, Xiaowei - LI, Sai - CHEN, Zi-Jie - NI, Zhongchu - CAI, Yanyan - MAI, Jiasheng - ZHANG, Libo - ZHENG, Pan - YU, Haifeng - ZOU, Chang-Ling - LIU, Song - YAN, Fei - XU, Yuan - YU, Dapeng. Quantum-enhanced metrology with large Fock states. In *NATURE PHYSICS*, 2024, vol. 20, no. 12. ISSN 1745-2473. Dostupné na: <https://doi.org/10.1038/s41567-024-02619-5>, Registrované v: WOS
5. [1.1] MERICI, Thiago Alonso - DE MATTOS, Thiago Gomes - PEIXOTO DE FARIA, Jose Geraldo. Degeneracy and Photon Trapping in a Dissipationless Two-Mode Optomechanical Model. In *ENTROPY*, 2024, vol. 26, no. 1, art. no. 87. Dostupné na: <https://doi.org/10.3390/e26010087>, Registrované v: WOS
6. [1.1] NANDI, Partha - DEBNATH, Nandita - KALA, Subhajit - MAJUMDAR, A. S. Magnetically induced Schrödinger cat states: The shadow of a quantum space. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 3, art. no. 032204. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.032204>, Registrované v: WOS
7. [1.1] PASINI, Matteo - CODREANU, Nina - TURAN, Tim - MORAL, Adria Riera - PRIMAVERA, Christian F. - DE SANTIS, Lorenzo - BEUKERS, Hans K. C. - BREVOORD, Julia M. - WAAS, Christopher - BORREGAARD, Johannes - HANSON, Ronald. Nonlinear Quantum Photonics with a Tin-Vacancy Center Coupled to a One-Dimensional Diamond Waveguide. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 2, art. no. 023603. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.023603>, Registrované v: WOS
8. [1.1] PATRA, Pinaki. Tuning the separability in noncommutative space. In *JOURNAL OF MATHEMATICAL PHYSICS*, 2024, vol. 65, no. 5, art. no. 052103. ISSN 0022-2488. Dostupné na: <https://doi.org/10.1063/5.0155899>, Registrované v: WOS
9. [1.1] RASMUSSEN, A. J. - JUNG, Ilyoung - SCHROER, Frank G. - KYPRIANIDIS, Antonis - RICHERME, Philip. Measurement-induced heating of a trapped ion. In *JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS*, 2024, vol. 57, no. 22, art. no. 225002. ISSN 0953-4075. Dostupné na: <https://doi.org/10.1088/1361-6455/ad838a>, Registrované v: WOS

10. [1.1] RODRIGUEZ, M. P. Morales - HERRERA, E. Garcia - MAGANA-LOAIZA, O. S. - PEREZ-GARCIA, B. - GUTIERREZ, F. Marroquin - RODRIGUEZ-LARA, B. M. Spatial-light-mode analogs of generalized quantum coherent states. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 3, art. no. 033523. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.033523>, Registrované v: WOS

11. [1.1] VATANSEVER, Zeynep Demir - VATANSEVER, Erol - BERGER, Andreas - VASILOPOULOS, Alexandros - FYTAS, Nikolaos G. Monte Carlo study of the two-dimensional kinetic Ising model under a nonantisymmetric magnetic field. In *PHYSICAL REVIEW E*, 2024, vol. 110, no. 6, art. no. 064155. ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.110.064155>, Registrované v: WOS

12. [1.1] WANG, F. - GREENAWAY, M. T. - BALANOV, A. G. - FROMHOLD, T. M. Non-KAM classical chaos topology for electrons in superlattice minibands determines the inter-well quantum transition rates. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 5269. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-52351-6>, Registrované v: WOS

13. [1.1] WISE, Jonathan L. - DUTREIX, Clement - PISTOLESI, Fabio. Nonclassical mechanical states in cavity optomechanics in the single-photon strong-coupling regime. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 5, art. no. L051501. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.L051501>, Registrované v: WOS

ADCA165 DEARY, J. - SCHECK, M.** - SCHWENGNER, R. - O'DONNELL, D. - BEMMERER, D. - BEYER, R. - HENSEL, Th. - JUNGHANS, A. R. - KÖGLER, T. - MÜLLER, S. E. - RÖMER, K. - SCHMIDT, K. - TURKAT, S. - URLAß, S. - WAGNER, A. - BOWRY, M. - ADSLEY, P. - AGAR, O. - CHAPMAN, R. - CRESPI, F. C. L. - DOHERTY, D. T. - FRIMAN GAYER, U. - HERZBERG, R.-D. - ISAAK, J. - JANSSENS, R. V. F. - KRÖLL, T. - LÖHER, B. - NARA SINGH, B. S. - VON NEUMANN-COSEL, P. - PELLEGGRI, L. - PETERS, E. E. - RAINOVSKI, G. - SAVRAN, D. - SMITH, J. F. - SPIEKER, M. - THIROLF, P. G. - TRIAMBAK, S. - TORNOW, W. - VENHART, Martin - WIEDEKING, M. - WIELAND, O. - YATES, S. W. - ZILGES, A. Photo-response of the $N = Z$ nucleus ^{24}Mg . In *European Physical Journal A*, 2023, vol. 59, no. 9, art. no. 198. (2022: 2.6 - IF, Q2 - JCR, 0.969 - SJR, Q2 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-023-01111-7>

Citácie:

1. [1.1] NESTERENKO, V. O. - MARDYBAN, M. A. - REINHARD, P.G. - REPKO, A. - KVASIL, J. Moments of inertia in light deformed nuclei: Pairing and mean-field impacts. In *INTERNATIONAL JOURNAL OF MODERN PHYSICS E*, 2024, vol. 33, no. 05, art. no. 2450021. ISSN 0218-3013. Dostupné na: <https://doi.org/10.1142/S0218301324500216>, Registrované v: WOS

ADCA166 DEGRO, J. - VOJTANÍK, P. - FILIPENSKY, J. - DUHAJ, Pavol. Influence of field annealing on the magnetic-properties of the amorphous alloy $\text{Co}_{68.4}\text{Fe}_{4.4}\text{Cr}_{7.2}\text{Si}_{8.3}\text{B}_{11.7}$. In *Materials Science and Engineering B - Solid-State Materials for Advanced Technology*, 1992, vol. 14, no. 1, p. 81-86. (1991: 0.620 - IF, karentované - CCC). (1992 - Current Contents). ISSN 0921-5107. Dostupné na: [https://doi.org/10.1016/0921-5107\(92\)90333-5](https://doi.org/10.1016/0921-5107(92)90333-5)

Citácie:

1. [1.1] TOKMAKOVA, Ekaterina N. - VVEDENSKIY, Vadim Yu. Magnetic properties of the amorphous Co-Fe-Cr-Si-B alloy after annealing in unsaturated magnetic field. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*,

- 2024, vol. 594, no., art. no. 171893. ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2024.171893>, Registrované v: WOS
- ADCA167 DEL DEBBIO, L. - FABER, M. - OLEJNÍK, Štefan. Casimir scaling versus Abelian dominance in QCD string formation. In *Physical Review D*, 1996, vol. 53, no. 10, p. 5891-5897. ISSN 1550-7998.
- Citácie:
- [1.1] BERGNER, Georg - GAUTAM, Vaibhav - HANADA, Masanori - HOLDEN, Jack. Wilson loops and random matrices. In *JOURNAL OF HIGH ENERGY PHYSICS*, 2024, vol., no. 7, art. no. 203. ISSN 1029-8479. Dostupné na: [https://doi.org/10.1007/JHEP07\(2024\)203](https://doi.org/10.1007/JHEP07(2024)203), Registrované v: WOS
 - [1.1] BERGNER, Georg - GAUTAM, Vaibhav - HANADA, Masanori. Color confinement and random matrices. A random walk down group manifold toward Casimir scaling. In *JOURNAL OF HIGH ENERGY PHYSICS*, 2024, vol., no. 3, art. no. 13. ISSN 1029-8479. Dostupné na: [https://doi.org/10.1007/JHEP03\(2024\)013](https://doi.org/10.1007/JHEP03(2024)013), Registrované v: WOS
- ADCA168 DEL DEBBIO, L. - FABER, M. - GIEDT, J. - GREENSITE, J. - OLEJNÍK, Štefan. Detection of center vortices in the lattice Yang-Mills vacuum. In *Physical Review D*, 1998, vol. 58, no. 9, art. no. 094501. (1997: 3.420 - IF, karentované - CCC). (1998 - Current Contents, WOS, SCOPUS). ISSN 1550-7998.
- Citácie:
- [1.1] GUVENDIK, Canberk - SCHAEFER, Thomas - UNSAL, Mithat. The metamorphosis of semi-classical mechanisms of confinement: from monopoles on $\mathbb{R}^{SUP3}/SUP \times \mathbb{S}^{SUP1}/SUP$ to center-vortices on $\mathbb{R}^{SUP2}/SUP \times \mathbb{T}^{SUP2}/SUP$. In *JOURNAL OF HIGH ENERGY PHYSICS*, 2024, vol., no. 11, art. no. 163. ISSN 1029-8479. Dostupné na: [https://doi.org/10.1007/JHEP11\(2024\)163](https://doi.org/10.1007/JHEP11(2024)163), Registrované v: WOS
 - [1.1] HAYASHI, Yui - TANIZAKI, Yuya. Semiclassics for the QCD vacuum structure through $\mathbb{T}^{SUP2}/SUP$ -compactification with the baryon-'t Hooft flux. In *JOURNAL OF HIGH ENERGY PHYSICS*, 2024, vol., no. 8, art. no. 1. ISSN 1029-8479. Dostupné na: [https://doi.org/10.1007/JHEP08\(2024\)001](https://doi.org/10.1007/JHEP08(2024)001), Registrované v: WOS
 - [1.1] KAMLEH, Waseem - LEINWEBER, Derek B. - VIRGILI, Adam. Numerical indication that center vortices drive dynamical mass generation in QCD. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 5, art. no. L051502. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.L051502>, Registrované v: WOS
 - [1.1] MICKLEY, Jackson A. - KAMLEH, Waseem - LEINWEBER, Derek B. Center vortex geometry at finite temperature. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 3, art. no. 034516. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.034516>, Registrované v: WOS
 - [1.1] OHATA, Hiroki - SUGANUMA, Hideo. Remnants of quark model in lattice QCD simulation in the Coulomb gauge. In *EUROPEAN PHYSICAL JOURNAL A*, 2024, vol. 60, no. 5, art. no. 97. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01327-1>, Registrované v: WOS
- ADCA169 DEL DEBBIO, L. - FABER, M. - GREENSITE, J. - OLEJNÍK, Štefan. Center dominance and $Z(2)$ vortices in $SU(2)$ lattice gauge theory. In *Physical Review D*, 1997, vol. 55, no. 4, p. 2298-2306. ISSN 1550-7998. Dostupné na: <https://doi.org/10.1103/PhysRevD.55.2298>
- Citácie:
- [1.1] GUVENDIK, Canberk - SCHAEFER, Thomas - UNSAL, Mithat. The metamorphosis of semi-classical mechanisms of confinement: from monopoles on $\mathbb{R}^{SUP3}/SUP \times \mathbb{S}^{SUP1}/SUP$ to center-vortices on $\mathbb{R}^{SUP2}/SUP \times \mathbb{T}^{SUP2}/SUP$. In

JOURNAL OF HIGH ENERGY PHYSICS, 2024, vol., no. 11, art. no. 163. ISSN 1029-8479. Dostupné na: [https://doi.org/10.1007/JHEP11\(2024\)163](https://doi.org/10.1007/JHEP11(2024)163), Registrované v: WOS

2. [1.1] HAYASHI, Yui - TANIZAKI, Yuya - WATANABE, Hiromasa. Non-supersymmetric duality cascade of QCD(BF) via semiclassics on RSUP2/SUPx TSUP2/SUP with the baryon-'t Hooft flux. In *JOURNAL OF HIGH ENERGY PHYSICS*, 2024, vol., no. 7, art. no. 33. ISSN 1029-8479. Dostupné na: [https://doi.org/10.1007/JHEP07\(2024\)033](https://doi.org/10.1007/JHEP07(2024)033), Registrované v: WOS

3. [1.1] HAYASHI, Yui - TANIZAKI, Yuya. Semiclassics for the QCD vacuum structure through TSUP2/SUP-compactification with the baryon-'t Hooft flux. In *JOURNAL OF HIGH ENERGY PHYSICS*, 2024, vol., no. 8, art. no. 1. ISSN 1029-8479. Dostupné na: [https://doi.org/10.1007/JHEP08\(2024\)001](https://doi.org/10.1007/JHEP08(2024)001), Registrované v: WOS

4. [1.1] KAMLEH, Waseem - LEINWEBER, Derek B. - VIRGILI, Adam. Numerical indication that center vortices drive dynamical mass generation in QCD. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 5, art. no. L051502. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.L051502>, Registrované v: WOS

5. [1.1] MICKLEY, Jackson A. - KAMLEH, Waseem - LEINWEBER, Derek B. Center vortex geometry at finite temperature. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 3, art. no. 034516. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.034516>, Registrované v: WOS

6. [1.1] NEJAD, Seyed Mohsen Hosseini. Influence of center vortex interactions on the static potentials. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 11, art. no. 114504. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.114504>, Registrované v: WOS

7. [1.1] OHATA, Hiroki - SUGANUMA, Hideo. Remnants of quark model in lattice QCD simulation in the Coulomb gauge. In *EUROPEAN PHYSICAL JOURNAL A*, 2024, vol. 60, no. 5, art. no. 97. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01327-1>, Registrované v: WOS

8. [1.1] TOHME, Kei - SUGANUMA, Hideo. Dimensional reduction gauge and effective dimensional reduction in four-dimensional Yang-Mills theory. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 3, art. no. 034505. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.034505>, Registrované v: WOS

ADCA170 DEL DEBBIO, L. - FABER, M. - GREENSITE, J. - OLEJNÍK, Štefan. Center vortices and the asymptotic string tension. In *Nuclear Physics B - Proceedings Supplements*, 1998, vol. 63, no. 1-3, p. 552-554. ISSN 0920-5632.

Citácie:

1. [1.1] MICKLEY, Jackson A. - KAMLEH, Waseem - LEINWEBER, Derek B. Center vortex geometry at finite temperature. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 3, art. no. 034516. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.034516>, Registrované v: WOS

ADCA171 DELBECQ, M.R. - NAKAJIMA, T. - STAŇO, Peter - OTSUKA, T. - AMAHA, S. - YONEDA, J. - TAKEDA, K. - ALLISON, G. - LUDWIG, A. - WIECK, A.D. - TARUCHA, S. Quantum dephasing in a gated GaAs triple quantum dot due to nonergodic noise. In *Physical Review Letters*, 2016, vol. 116, no. 4, art. no. 046802. (2015: 7.645 - IF, Q1 - JCR, 4.656 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.116.046802>

Citácie:

1. [1.1] HERMANSEN, C. - CALTAPANIDES, M. - MEDEN, V. - PAASKE, J.

Simulating electron-vibron energy transfer with quantum dots and resonators. In PHYSICAL REVIEW B, 2024, vol. 110, no. 20, art. no. 205424. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.205424>, Registrované v: WOS

2. [1.1] SONG, Younguk - YUN, Jonginn - KIM, Jehyun - JANG, Wonjin - JANG, Hyeongyu - PARK, Jaemin - CHO, Min-Kyun - SOHN, Hanseo - USAMI, Noritaka - MIYAMOTO, Satoru - ITOH, Kohei M. - KIM, Dohun. Coherence of a field gradient driven singlet-triplet qubit coupled to multielectron spin states in SUP28/SUPSi/SiGe. In NPJ QUANTUM INFORMATION, 2024, vol. 10, no. 1, art. no. 77. Dostupné na: <https://doi.org/10.1038/s41534-024-00869-y>, Registrované v: WOS

ADCA172 DENG, X.G. - MA, Y.G. - VESELSKÝ, Martin. Thermal and transport properties in central heavy-ion reactions around a few hundred MeV/nucleon. In Physical Review C., 2016, vol. 94, no. 4, art. no. 044622. (2015: 3.146 - IF, Q2 - JCR, 1.993 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.94.044622>

Citácie:

1. [1.1] WANG, Rui - BURRELLO, Stefano - COLONNA, Maria - MATERA, Francesco. Dynamics of dilute nuclear matter with light clusters and in-medium effects. In PHYSICAL REVIEW C, 2024, vol. 110, no. 3, art. no. L031601. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.L031601>, Registrované v: WOS

ADCA173 DERIAN, René - TOKÁR, Kamil - SOMOGYI, B. - GÁLI, Á. - ŠTICH, Ivan**. Optical Gaps in Pristine and Heavily Doped Silicon Nanocrystals: DFT versus Quantum Monte Carlo Benchmarks. In Journal of Chemical Theory and Computation, 2017, vol. 13, no. 12, p. 6061-6067. (2016: 5.245 - IF, Q1 - JCR, 2.711 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1549-9618. Dostupné na: <https://doi.org/10.1021/acs.jctc.7b00823>

Citácie:

1. [1.1] COPPOLA, Federico - CARFORA, Raoul - CIMINO, Paola - PETRONE, Alessio - REGA, Nadia. Tetracyanoethylene NaSUP+/SUP/KSUP+/SUP radical anion coordination sites unveiled via electronic and vibrational fingerprints. In THEORETICAL CHEMISTRY ACCOUNTS, 2024, vol. 143, no. 12, art. no. 77. ISSN 1432-881X. Dostupné na: <https://doi.org/10.1007/s00214-024-03151-8>, Registrované v: WOS

2. [1.1] COPPOLA, Federico - CIMINO, Paola - PETRONE, Alessio - REGA, Nadia. Evidence of Excited-State Vibrational Mode Governing the Photorelaxation of a Charge-Transfer Complex. In JOURNAL OF PHYSICAL CHEMISTRY A, 2024, vol. 128, no. 9, pp. 1620-1633. ISSN 1089-5639. Dostupné na: <https://doi.org/10.1021/acs.jpca.3c08366>, Registrované v: WOS

3. [1.1] CRISCI, Luigi - COPPOLA, Federico - PETRONE, Alessio - REGA, Nadia. Tuning ultrafast time-evolution of photo-induced charge-transfer states: A real-time electronic dynamics study in substituted indenotetracene derivatives. In JOURNAL OF COMPUTATIONAL CHEMISTRY, 2024, vol. 45, no. 4, pp. 210-221. ISSN 0192-8651. Dostupné na: <https://doi.org/10.1002/jcc.27231>, Registrované v: WOS

4. [1.1] MADDEN, Eimear - ZWIJNENBURG, Martijn A. The effect of particle size on the optical and electronic properties of hydrogenated silicon nanoparticles. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS, 2024, vol. 26, no. 15, pp. 11695-11707. ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/d4cp00119b>, Registrované v: WOS

ADCA174 DERKA, R. - BUŽEK, Vladimír - EKERT, A.K. Universal algorithm for optimal

estimation of quantum states from finite ensembles via realizable generalized measurement. In *Physical Review Letters*, 1998, vol. 80, no. 8, p. 1571-1575. (1997: 6.140 - IF, karentované - CCC). (1998 - Current Contents, WOS, SCOPUS). ISSN 0031-9007.

Citácie:

1. [1.1] REITZNER, Daniel - BOUDA, Jan. *General measurements with limited resources and their application to quantum unambiguous state discrimination*. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 7, art. no. 268. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04468-w>, Registrované v: WOS

2. [1.1] SASMAL, S. - KANJILAL, S. - PAN, A. K. *Unbounded Sharing of Nonlocality Using Qubit Projective Measurements*. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 17, art. no. 170201. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.170201>, Registrované v: WOS

ADCA175 DERZSI, Mariana** - UHLIAR, Matej - TOKÁR, Kamil. Ag₆Cl₄: the first silver chloride with rare Ag-6 clusters from an ab initio study. In *Chemical Communication*, 2021, vol. 57, no. 79, p. 10186-10189. (2020: 6.222 - IF, Q1 - JCR, 1.837 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1359-7345. Dostupné na: <https://doi.org/10.1039/d1cc03426j>

Citácie:

1. [1.1] IZQUIERDO-RUIZ, Fernando - SALVADO, Miguel Angel - LOBATO, Alvaro - RECIO, Jose Manuel. *Where are the Excess Electrons in Subvalent Compounds? The Case of Ag₇Pt₂O₇* In *INORGANIC CHEMISTRY*, 2024, vol. 63, no. 13, pp. 5897-5907. ISSN 0020-1669. Dostupné na: <https://doi.org/10.1021/acs.inorgchem.3c04409>, Registrované v: WOS

2. [1.1] KANYOLO, Godwill Mbiti - MASESE, Titus - MIYAZAKI, Yoshinobu - TACHIBANA, Shintaro - ZHONG, Chengchao - ORIKASA, Yuki - SAITO, Tomohiro. *Honeycomb layered frameworks with metallophilic bilayers*. In *PROGRESS IN MATERIALS SCIENCE*, 2024, vol. 141, no., art. no. 101205. ISSN 0079-6425. Dostupné na: <https://doi.org/10.1016/j.pmatsci.2023.101205>, Registrované v: WOS

3. [1.1] QU, Kai - SUN, Weizhi - NESTOLA, Fabrizio - GU, Xiangping - YANG, Zeqiang - SIMA, Xianzhang - TANG, Chao - FAN, Guang - WANG, Yanjuan. *Kenorozhdestvenskayaite-(Fe), Ag₆(Ag₄Fe₂)Sb₄S₁₂□: A new tetrahedrite group mineral containing a natural [Ag₆]SUP₄+ / SUP cluster and its relationship to the synthetic ternary phosphide (Ag₆M₄P₁₂)M₆'*. In *AMERICAN MINERALOGIST*, 2024, vol. 109, no. 7, pp. 1275-1283. ISSN 0003-004X. Dostupné na: <https://doi.org/10.2138/am-2023-9074>, Registrované v: WOS

ADCA176 DI GIACOMO, A. - MAGGIORE, M. - OLEJNÍK, Štefan. Confinement and chromoelectric flux tubes in lattice QCD. In *Nuclear Physics B*, 1990, vol. 347, no. 1-2, p. 441-460. ISSN 0550-3213. Dostupné na: [https://doi.org/10.1016/0550-3213\(90\)90567-W](https://doi.org/10.1016/0550-3213(90)90567-W)

Citácie:

1. [1.1] DZHUNUSHALIEV, Vladimir - FOLOMEEV, Vladimir. *Chromoelectric flux tubes within non-Abelian Proca theory*. In *EUROPEAN PHYSICAL JOURNAL C*, 2024, vol. 84, no. 9, art. no. 965. ISSN 1434-6044. Dostupné na: <https://doi.org/10.1140/epjc/s10052-024-13322-3>, Registrované v: WOS

2. [1.1] GALSANDORJ, Enkhtuya - CHAGDAA, Sodbileg - BATGEREL, Munkhzaya. *Pure gauge flux tube and running coupling from EMT at high temperature*. In *EUROPEAN PHYSICAL JOURNAL A*, 2024, vol. 60, no. 5, art. no. 113. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01328-0>, Registrované v: WOS

- ADCA177 DI GIACOMO, A. - MAGGIORE, M. - OLEJNÍK, Štefan. Evidence for flux tubes from cooled QCD configurations. In *Physics Letters B*, 1990, vol. 236, no. 2, p. 199-202. ISSN 0370-2693. Dostupné na: [https://doi.org/10.1016/0370-2693\(90\)90828-T](https://doi.org/10.1016/0370-2693(90)90828-T)
Citácie:
1. [1.1] BAKER, M. - CHELNOKOV, V. - COSMAI, L. - CUTERI, F. - PAPA, A. *Unveiling SU(3) flux tubes at nonzero temperature: electric fields and magnetic currents*. In *EUROPEAN PHYSICAL JOURNAL C*, 2024, vol. 84, no. 2, art. no. 150. ISSN 1434-6044. Dostupné na: <https://doi.org/10.1140/epjc/s10052-024-12472-8>, Registrované v: WOS
- ADCA178 DIETZEL, Dirk - BRNDIAR, Ján - ŠTICH, Ivan - SCHIRMEISEN, André. Limitations of structural superlubricity: chemical bonds versus contact size. In *ACS Nano*, 2017, vol. 11, no. 8, p. 7642-7647. (2016: 13.942 - IF, Q1 - JCR, 6.948 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1936-0851. Dostupné na: <https://doi.org/10.1021/acsnano.7b02240>
Citácie:
1. [1.1] CAMMARATA, Antonio - PERVIZ, Elliot - POLCAR, Tomas. *Current perspective towards a general framework to describe and harness friction at the nanoscale*. In *PROGRESS IN SURFACE SCIENCE*, 2024, vol. 99, no. 3, pp. ISSN 0079-6816. Dostupné na: <https://doi.org/10.1016/j.progsurf.2024.100753>, Registrované v: WOS
 2. [1.1] HUANG, Yisheng - MA, Ming - PENG, Deli - TIAN, Kaiwen. *Frictional aging in microscale structural superlubric graphite contacts*. In *APPLIED PHYSICS LETTERS*, 2024, vol. 125, no. 4, pp. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0203370>, Registrované v: WOS
 3. [1.1] LI, Yutao - HE, Wenjie - HE, Qi-Chang - WANG, Wen. *Contributions of Edge and Internal Atoms to the Friction of Two-Dimensional Heterojunctions*. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 12, pp. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.126202>, Registrované v: WOS
 4. [1.1] RU, Guoliang - QI, Weihong - SUN, Shu - TANG, Kewei - DU, Chengfeng - LIU, Weimin. *Interlayer Friction and Adhesion Effects in Penta-PdSe₂-Based van der Waals Heterostructures*. In *ADVANCED SCIENCE*, 2024, vol. 11, no. 34, pp. Dostupné na: <https://doi.org/10.1002/advs.202400395>, Registrované v: WOS
 5. [1.1] WANG, Jin - KHOSRAVI, Ali - VANOSSI, Andrea - TOSATTI, Erio. *Colloquium: Sliding and pinning in structurally lubric 2D material interfaces*. In *REVIEWS OF MODERN PHYSICS*, 2024, vol. 96, no. 1, pp. ISSN 0034-6861. Dostupné na: <https://doi.org/10.1103/RevModphys.96.011002>, Registrované v: WOS
 6. [1.1] WANG, Yongfu - YANG, Xing - LIANG, Huiting - ZHAO, Jun - ZHANG, Junyan. *Macroscale Superlubricity on Nanoscale Graphene Moiré Structure-Assembled Surface via Counterface Hydrogen Modulation*. In *ADVANCED SCIENCE*, 2024, vol., no., pp. Dostupné na: <https://doi.org/10.1002/advs.202309701>, Registrované v: WOS
 7. [1.1] WOOD, Jonathan - PALMS, Dennis - DABARE, Ruvini - VASILEV, Krasimir - BRIGHT, Richard. *Exploring the Challenges of Characterising Surface Topography of Polymer-Nanoparticle Composites*. In *NANOMATERIALS*, 2024, vol. 14, no. 15, pp. Dostupné na: <https://doi.org/10.3390/nano14151275>, Registrované v: WOS
 8. [1.1] WU, Fan-Bin - ZHOU, Sheng-Jian - OUYANG, Jia-Hu - WANG, Shu-Qi - CHEN, Lei. *Structural Superlubricity of Two-Dimensional Materials: Mechanisms, Properties, Influencing Factors, and Applications*. In *LUBRICANTS*, 2024, vol. 12, no. 4, pp. Dostupné na:

<https://doi.org/10.3390/lubricants12040138>, Registrované v: WOS

9. [1.1] YAN, Weidong - GAO, Xiang - OUYANG, Wengen - LIU, Ze - HOD, Oded - URBACH, Michael. Shape-dependent friction scaling laws in twisted layered material interfaces. In *JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS*, 2024, vol. 185, no., pp. ISSN 0022-5096. Dostupné na:

<https://doi.org/10.1016/j.jmps.2024.105555>, Registrované v: WOS

10. [1.1] ZAKERTABRIZI, Mohammad - HOSSEINI, Ehsan - FALLAHI, Hamed - CREASY, Terry - TABELI, Ali - RAZMJOU, Amir - SONG, Kenan - LEE, Kyungjun - JARRAHBASHI, Dorrin - ASADI, Amir. Dissecting atomic interweaving friction reveals the orbital overlap repulsion and its role in the integrity of woven nanofabrics in composites. In *ADVANCED COMPOSITES AND HYBRID MATERIALS*, 2024, vol. 7, no. 3, pp. ISSN 2522-0128. Dostupné na:

<https://doi.org/10.1007/s42114-024-00897-4>, Registrované v: WOS

11. [1.1] ZHU, Dongxiang - ZHANG, Jie - LI, Panpan - LI, Zhan - LI, Hongxuan - LIU, Xiaohong - MA, Tianbao - JI, Li - ZHOU, Huidi - CHEN, Jianmin. Robust Macroscale Superlubricity in Humid Air via Designing Amorphous DLC/Crystalline TMDs Friction Pair. In *ADVANCED FUNCTIONAL MATERIALS*, 2024, vol. 34, no. 30, pp. ISSN 1616-301X. Dostupné na:

<https://doi.org/10.1002/adfm.202316036>, Registrované v: WOS

12. [1.2] OO, Wai H. - ÖZÖĞÜL, Alper - KROK, Franciszek - GNECCO, Enrico - BAYKARA, Mehmet Z. Nanoisland Manipulation Experiments at Oxidized, Contaminated and Nanorough Interfaces: Structural Superlubricity and Directional Locking. In *NanoScience and Technology*, 2024-01-01, part F3377, pp. 159-171. ISSN 14344904. Dostupné na: https://doi.org/10.1007/978-3-031-63065-1_8, Registrované v: SCOPUS

13. [3.1] KAINDL, R. - KOPP, D.F. - PARIZEK, H. - LACKNER, J.M. - WALDHAUSER, W. Wear-resistant low-friction atmospheric pressure plasma spray coatings for sustainable (bio-based recyclable) materials. In *BHM Berg- und Hüttenmännische Monatshefte*. 2024, vol. 169, no. 7, pp. 366-374. doi: [10.1007/s00501-024-01479-z](https://doi.org/10.1007/s00501-024-01479-z).

ADCA179 DIN, Muhammad Faraz Ud** - SOUSANI, Shima - KOTLÁR, Mário - ULLAH, Sami - GREGOR, Maroš - ŠČEPKA, Tomáš - SOYKA, Yaryna - STEPURA, Anastasiia - SHAJI, Ashin - IGBARI, Femi - VÉGSÖ, Karol - NÁDAŽDY, Vojtech - ŠIFFALOVÍČ, Peter - JERGEL, Matej - OMASTOVÁ, Mária - MAJKOVÁ, Eva. Tailoring the electronic properties of the SnO₂ nanoparticle layer for n-i-p perovskite solar cells by Ti₃C₂T_x MXene. In *Materials Today Communications*, 2023, vol. 36, art.no. 106700, [10] p. (2022: 3.8 - IF, Q2 - JCR, 0.644 - SJR, Q2 - SJR). ISSN 2352-4928. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2023.106700>

Citácie:

1. [1.1] GUO, Yang - LI, Xiabing - CHEN, Bo - TANG, Yuan - WANG, Jun - LU, Hao - GUO, Chunxian - TONG, Shuk-Yin. Fabrication of gradient band tin oxide electron transport layer using self-separated dual-quantum dots for perovskite solar cells. In *MATERIALS TODAY ENERGY*, 2024, vol. 46, no., art. no. 101708. ISSN 2468-6069. Dostupné na: <https://doi.org/10.1016/j.mtener.2024.101708>, Registrované v: WOS

2. [1.1] KUMAR, Sunil - KUMARI, Nitu - SINGH, Tej - SEO, Yongho. Shielding 2D MXenes against oxidative degradation: recent advances, factors and preventive measures. In *JOURNAL OF MATERIALS CHEMISTRY C*, 2024, vol. 12, no. 23, pp. 8243-8281. ISSN 2050-7526. Dostupné na: <https://doi.org/10.1039/d4tc00884g>, Registrované v: WOS

3. [1.1] KUMAR, Sunil. Fluorine-Free MXenes: Recent Advances, Synthesis Strategies, and Mechanisms. In *SMALL*, 2024, vol. 20, no. 16. ISSN 1613-6810.

Dostupné na: <https://doi.org/10.1002/sml.202308225>, Registrované v: WOS

4. [1.1] LI, Yanting - YANG, Feng - LIANG, Hanni - LAN, Liuhui - YE, Sidi - LIU, Yanting - CHEN, Qian - MENG, Lili - YAO, Hua. Enhanced photoelectric performance of dual cations quantum dots carbon-based perovskite solar cells with stacked structure. In *JOURNAL OF SOLID STATE ELECTROCHEMISTRY*, 2024, vol. 28, no. 9, pp. 3383-3389. ISSN 1432-8488. Dostupné na: <https://doi.org/10.1007/s10008-024-05918-2>, Registrované v: WOS

5. [1.1] SAEED, Muhammad Ahsan - QAMAR, Muhammad Zain - KHALID, Zubair - CHAMANEHPOUR, Elham - MISHRA, Yogendra Kumar. Two-dimensional MXenes: A route from synthesis to applications in self-powered IoT devices. In *CHEMICAL ENGINEERING JOURNAL*, 2024, vol. 490, no., art. no. 151600. ISSN 1385-8947. Dostupné na: <https://doi.org/10.1016/j.cej.2024.151600>, Registrované v: WOS

6. [1.2] STROYUK, Oleksandr - RAIEVSKA, Oleksandra - HAUCH, Jens - BRABEC, Christoph J. Atomically thin 2D materials for solution-processable emerging photovoltaics. In *Chemical Communications*, 2024-12-02, 61, 3, pp. 455-475. ISSN 13597345. Dostupné na: <https://doi.org/10.1039/d4cc05133e>, Registrované v: SCOPUS

7. [1.2] WANG, Yaling - DING, Yi - YANG, Liying - YIN, Shougen - XU, Sheng - ZHU, Haina - GE, Hong. SnO₂-Ti₃C₂ Blends as Electron Transport Layer for Efficient and Easily Fabricated Planar Perovskite Solar Cells. In *IEEE Journal of Photovoltaics*, 2024-01-01, pp. ISSN 21563381. Dostupné na: <https://doi.org/10.1109/JPHOTOV.2024.3496475>, Registrované v: SCOPUS

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DIN, Muhammad Faraz Ud** - HELD, Vladimír - ULLAH, Sami - SOUSANI, Shima - OMASTOVÁ, Mária - NÁDAŽDY, Vojtech - SHAJI, Ashin - ŠIFFALOVIC, Peter - JERSEL, Matej - MAJKOVÁ, Eva. A synergistic effect of the ion beam sputtered NiO (x) hole transport layer and MXene doping on inverted perovskite solar cells. In *Nanotechnology*, 2022, vol. 33, no. 42, art. no. 425202, [7] p. (2021: 3.953 - IF, Q2 - JCR, 0.757 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0957-4484. Dostupné na: <https://doi.org/10.1088/1361-6528/ac7ed4>

Citácie:

1. [1.1] DEHINGIA, Anurag - DAS, Ujjal - MANDAL, Dipankar - ROY, Asim. Application of Ti₃C₂T_x MXene nanosheets and quantum-dots in halide perovskite solar cells. In *MATERIALS TODAY SUSTAINABILITY*, 2024, vol. 25, no., art. no. 100619. ISSN 2589-2347. Dostupné na: <https://doi.org/10.1016/j.mtsust.2023.100619>, Registrované v: WOS

2. [1.1] KANTI, Praveen Kumar - JAYAN, K. Deepthi - SWAPNALIN, Jhilmil - BANERJEE, Prasun - PARAMASIVAM, Prabhu - WANATASANAPPAN, V. Vicki. A critical review on MXene as promising photovoltaic materials. In *SOLAR ENERGY MATERIALS AND SOLAR CELLS*, 2024, vol. 277, no., art. no. 113147. ISSN 0927-0248. Dostupné na: <https://doi.org/10.1016/j.solmat.2024.113147>, Registrované v: WOS

3. [1.1] MARIMUTHU, Sathish - SHYMA, Arunkumar Prabhakaran - SATHYANARAYANAN, Shriswaroop - GOPAL, Tamilselvi - JAMES, Jaimson T. - NAGALINGAM, Suruthi Priya - GUNASEELAN, Bharath - BABU, Sivasri - SELLAPPAN, Raja - GRACE, Andrews Nirmala. The dawn of MXene duo: revolutionizing perovskite solar cells with MXenes through computational and experimental methods. In *NANOSCALE*, 2024, vol. 16, no. 21, pp. 10108-10141. ISSN 2040-3364. Dostupné na: <https://doi.org/10.1039/d4nr01053a>, Registrované v: WOS

ADCA181

DIXIT, Aparna - ABRAHAM, Jisha Annie - MANZOOR, Mumtaz - ALTAF,

Mohammad - KUMAR, Yedluri Anil - SHARMA, Ramesh. A comprehensive DFT analysis of the physical, optoelectronic and thermoelectric attributes of Ba₂InNbO₆ double perovskites for eco-friendly technologies. In Materials Science and Engineering B - Solid-State Materials for Advanced Technology, 2024, vol. 307, no. 11, art. no. 117530. (2023: 3.9 - IF, Q2 - JCR, 0.647 - SJR, Q2 - SJR, karentované - CCC). (2024 - Current Contents). ISSN 0921-5107. Dostupné na: <https://doi.org/10.1016/j.mseb.2024.117530>

Citácie:

1. [1.1] IDRISSE, S. - JABAR, A. - BAHMAD, L. A DFT study of the CaMg₂As₂ material for photovoltaic applications. In SOLID STATE COMMUNICATIONS, 2024, vol. 392, no., art. no. 115655. ISSN 0038-1098. Dostupné na:

<https://doi.org/10.1016/j.ssc.2024.115655>, Registrované v: WOS

2. [1.1] IQBAL, Muhammad Zahir - ZAKIR, Ayesha - JAVED, Maira - ALI, Rashid - KUMAR, Abhinav - HEGAZY, H. H. - ALAHMARI, A. A. Transition metal-assisted layer-by-layer binder free deposition for high-performance energy storage devices. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY, 2024, vol. 975, no., art. no. 118766. ISSN 1572-6657. Dostupné na:

<https://doi.org/10.1016/j.jelechem.2024.118766>, Registrované v: WOS

ADCA182 DJOUMESSI, Aurelien Sokeng** - SICHWARDT, Anastasia - MILIAIEVA, Daria - ČERMÁK, Jan - SCHAAL, Maximilian - OTTO, Felix - STEHLÍK, Štěpán - KULIČEK, Jaroslav - NÁDAŽDY, Vojtech - FRITZ, Torsten - KROMKA, Alexander - REZEK, Bohuslav - SCHUBERT, Ulrich S. - HOPPE, Harald. Nanodiamonds as Charge Extraction Layer in Organic Solar Cells: The Impact of the Nanodiamond Surface Chemistry. In Solar RRL, 2023, vol. 7, no. 12, art. no. 2201061. (2022: 7.9 - IF, Q1 - JCR, 2.24 - SJR, Q1 - SJR). ISSN 2367-198X. Dostupné na: <https://doi.org/10.1002/solr.202201061>

Citácie:

1. [1.1] GHALAVAND, Reza - GHAFURI, Hossein - ARDESHIRI, Hadi Hassani. Preparation of nanodiamond anchored on copper tannic acid as a heterogenous catalyst for synthesis of 1,4-benzodiazepines derivatives. In SCIENTIFIC REPORTS, 2024, vol. 14, no. 1, art. no. 8655. ISSN 2045-2322. Dostupné na:

<https://doi.org/10.1038/s41598-024-58563-0>, Registrované v: WOS

2. [1.1] KURNIAWAN, Darwin - XIA, Zhenhai - DAI, Liming - OSTRIKOV, Kostya (Ken) - CHIANG, Wei-Hung. Zero-dimensional nano-carbons: Synthesis, properties, and applications. In APPLIED PHYSICS REVIEWS, 2024, vol. 11, no. 2, art. no. 021311. ISSN 1931-9401. Dostupné na:

<https://doi.org/10.1063/5.0187310>, Registrované v: WOS

3. [1.1] TRAN, Hong Nhan - PARK, Chan Beom - LEE, Jin Hee - SEO, Jung Hwa - KIM, Jin Young - OH, Seung-Hwan - CHO, Shinuk. γ -Ray Irradiation Enables Annealing- and Light-Soaking-Free Solution Processable SnO₂ Electron Transport Layer for Inverted Organic Solar Cells. In SMALL, 2024, vol. 20, no. 18. ISSN 1613-6810. Dostupné na: <https://doi.org/10.1002/sml.202307441>,

Registrované v: WOS

ADCA183 DO, Hung Manh - LE, Thi Hong Phong - TRAN, Dang Thanh - NGUYEN, Thi Ngoc Anh - ŠKORVÁNEK, Ivan** - KOVÁČ, Jozef - ŠVEC, Peter Jr. - PHAN, Manh Huong. Magnetic interaction effects in Fe₃O₄@CoFe₂O₄ core/shell nanoparticles. In Journal of Science: Advanced Materials and Devices, 2024, vol. 9, no. 1, art. no. 100658. (2023: 6.7 - IF, Q1 - JCR, 1.2 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 2468-2179. Dostupné na: <https://doi.org/10.1016/j.jsamd.2023.100658>

Citácie:

1. [1.1] OMELYANCHIK, A. - VILLA, S. - LOCARDI, F. - FERRETTI, A.M. -

PONTI, A. - SINGH, G. - BARUCCA, G. - SLIMANI, S. - DEL TEDESCO, A. - RIELLO, P. - RUTKOWSKI, B. - VASILAKAKI, M. - MARGARIS, G. - TROHIDOU, K.N. - PEDDIS, D. *Magnetic Anisotropy and Interactions in Hard/Soft Core/Shell Nanoarchitectures: The Role of Shell Thickness*. In *CHEMISTRY OF MATERIALS*. ISSN 0897-4756, AUG 12 2024, vol. 36, no. 16, p. 7976-7987. Dostupné na: <https://doi.org/10.1021/acs.chemmater.4c01421>, Registrované v: WOS

2. [1.1] PHONG, L.T.H. - MANH, D.H. - THANH, T.D. - BACH, T.N. - KY, V.H. - SKORVANEK, I. - KOVAC, J. - SVEC, P. - PHAN, T.L. - PHAN, M.H. *Contrasting shell thickness-dependent magnetic behaviors of CoFe₂O₄@Fe₃O₄ and Fe₃O₄@CoFe₂O₄ core/shell nanoparticles*. In *JOURNAL OF ALLOYS AND COMPOUNDS*. ISSN 0925-8388, NOV 15 2024, vol. 1005. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.176138>, Registrované v: WOS

3. [1.1] SI, W.B. - ZHANG, Z.H. - WANG, Y.Z. - SHAO, M.Y. - WEI, J. *Size-dependent magnetic properties of Mn-Zn ferrite nanoparticles synthesized by chemical solution method*. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*. ISSN 0957-4522, OCT 2024, vol. 35, no. 28. Dostupné na: <https://doi.org/10.1007/s10854-024-13626-w>, Registrované v: WOS

4. [1.1] TRAN, G.T. - NGUYEN, L.M. - NGUYEN, T.T.T. - NGUYEN, D.H. - TRAN, T.V. *Recent developments in the bio-mediated synthesis of CoFe₂O₄ nanoparticles using plant extracts for environmental and biomedical applications*. In *NANOSCALE ADVANCES*. ISSN 2516-0230, OCT 22 2024, vol. 6, no. 21, p. 5285-5300. Dostupné na: <https://doi.org/10.1039/d4na00604f>, Registrované v: WOS

5. [1.1] TUYEN, N.L. - HUE, N.T. - THO, P.T. - TOAN, H.N. - XUAN, C. - DANG, N. - HO, T. - TUAN, N.Q. - TRAN, N. *Excellent microwave absorption performance of zinc-doped SrFe₁₂O₁₉ hexaferrite and detailed loss mechanism*. In *JOURNAL OF SCIENCE-ADVANCED MATERIALS AND DEVICES*. ISSN 2468-2284, DEC 2024, vol. 9, no. 4. Dostupné na: <https://doi.org/10.1016/j.jsamd.2024.100796>, Registrované v: WOS

ADCA184 DOBROZHAN, O. - OPANASYUK, A. - KOLESNYK, M. - DEMYDENKO, Maksym. *Substructural investigations, Raman, and FTIR spectroscopies of nanocrystalline ZnO films deposited by pulsed spray pyrolysis*. In *Physica Status Solidi A : Applications and Materials Science*, 2015, vol. 212, no. 12, p. 2915-2921. (2014: 1.616 - IF, Q2 - JCR, 0.688 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1862-6300. Dostupné na: <https://doi.org/10.1002/pssa.201532324>

Citácie:

1. [1.1] BANERJEE, Arpita - ROY, Payal - CHAKRABORTY, Jui - MAJUMDER, Mousumi. *Environmentally degradable curcumin/ zinc oxide nanoparticles-incorporated polycaprolactone films for use as top-sheets in feminine sanitary hygiene napkins*. In *MATERIALS TODAY COMMUNICATIONS*, 2024, vol. 40, no., art. no. 109452. Dostupné na:

<https://doi.org/10.1016/j.mtcomm.2024.109452>, Registrované v: WOS

2. [1.1] QIAN, Kun - WANG, Cheng - YANG, Mengmeng - ZOU, Xuexue - ZHANG, Yue - DONG, Qiangsheng - WANG, Xianli - SHAO, Yi - CHENG, Zhaojun - JU, Jia - CHU, Chenglin - CHEN, Quanzhi - XUE, Feng - BAI, Jing. *Self-assembly Zn-containing layer on PEO-coated Mg with enhanced corrosion resistance, antibacterial activity, and osteogenic property*. In *CORROSION SCIENCE*, 2024, vol. 226, no., art. no. 111674. ISSN 0010-938X. Dostupné na: <https://doi.org/10.1016/j.corsci.2023.111674>, Registrované v: WOS

3. [1.1] YAVUZ, Derya Kapusuz - EL ACCEN, Muhammed - BEDIR, Metin. *Low-*

Temperature Solvothermal Synthesis of Triangular, Spherical, and Urchin-Like ZnO. In CHEMISTRYSELECT, 2024, vol. 9, no. 37, art. no. e202403546. ISSN 2365-6549. Dostupné na: <https://doi.org/10.1002/slct.202403546>, Registrované v: WOS

4. [1.1] YAVUZ, Derya Kapusuz - EL ACCEN, Muhammed - BEDIR, Metin. Unlocking the potential of ZnO nanorods: Structural insights for enhanced photocatalytic activity. In JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, 2024, vol. 193, no., art. no. 112120. ISSN 0022-3697. Dostupné na: <https://doi.org/10.1016/j.jpcs.2024.112120>, Registrované v: WOS

ADCA185 DODA, Mirdit - HUBER, Marcus - MURTA, Gláucia - PIVOLUSKA, Matej - PLESCH, Martin** - VLACHOU, Chrysoula. Quantum Key Distribution Overcoming Extreme Noise: Simultaneous Subspace Coding Using High-Dimensional Entanglement. In Physical Review Applied, 2021, vol. 15, no. 3, art. no. 034003. (2020: 4.985 - IF, Q1 - JCR, 1.883 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.15.034003>

Citácie:

1. [1.1] CHANG, Kai-Chi - SARIHAN, Murat Can - CHENG, Xiang - ZHANG, Zheshen - WONG, Chee Wei. Large-alphabet time-bin quantum key distribution and Einstein-Podolsky-Rosen steering via dispersive optics. In QUANTUM SCIENCE AND TECHNOLOGY, 2024, vol. 9, no. 1, art. no. 015018. ISSN 2058-9565. Dostupné na: <https://doi.org/10.1088/2058-9565/ad0f6f>, Registrované v: WOS

2. [1.1] JING, Xu - QIAN, Cheng - ZHENG, Xiaodong - NIAN, Hu - WANG, Chenquan - TANG, Jie - GU, Xiaowen - KONG, Yuechan - CHEN, Tangsheng - LIU, Yichen - SHENG, Chong - JIANG, Dong - NIU, Bin - LU, Liangliang. Coexistence of multiuser entanglement distribution and classical light in optical fiber network with a semiconductor chip. In CHIP, 2024, vol. 3, no. 2, art. no. 100083. ISSN 2709-4723. Dostupné na: <https://doi.org/10.1016/j.chip.2024.100083>, Registrované v: WOS

3. [1.1] LIU ZHIFENG - HUANG SHUANGYIN - CHEN CHAO - REN ZHICHENG - WANG XILIN - WANG HUITIAN. Spatial Control of Photonic Quantum States (Invited). In ACTA OPTICA SINICA, 2024, vol. 44, no. 10, art. no. 1026009. ISSN 0253-2239. Dostupné na: <https://doi.org/10.3788/AOS231992>, Registrované v: WOS

4. [1.1] LIU, Shuheng - FADEL, Matteo - HE, Qiongyi - HUBER, Marcus - VITAGLIANO, Giuseppe. Bounding entanglement dimensionality from the covariance matrix. In QUANTUM, 2024, vol. 8, no., art. no. 1236. ISSN 2521-327X., Registrované v: WOS

5. [1.1] PATRA, Ayan - GUPTA, Rivu - DAS, Tamoghna - SEN(DE), Aditi. Dimensional advantage in secure information trading via the noisy dense-coding protocol. In PHYSICAL REVIEW A, 2024, vol. 110, no. 3, art. no. 032419. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.032419>, Registrované v: WOS

6. [1.1] SANTOS, Manuel B. - MATEUS, Paulo - VLACHOU, Chrysoula. Quantum Universally Composable Oblivious Linear Evaluation. In QUANTUM, 2024, vol. 8, no., pp. 1-42. ISSN 2521-327X., Registrované v: WOS

7. [1.1] TAVAKOLI, Armin - POZAS-KERSTJENS, Alejandro - BROWN, Peter - ARAUJO, Mateus. Semidefinite programming relaxations for quantum correlations. In REVIEWS OF MODERN PHYSICS, 2024, vol. 96, no. 4, art. no. 045006. ISSN 0034-6861. Dostupné na: <https://doi.org/10.1103/RevModPhys.96.045006>, Registrované v: WOS

8. [1.1] ZHONG, Zhen-Qiu - ZHAN, Xiao-Hai - CHEN, Jia-Lin - WANG, Shuang - YIN, Zhen-Qiang - GENG, Jia-Qi - HE, De-Yong - CHEN, Wei - GUO, Guang-Can - HAN, Zheng-Fu. Hyperentanglement quantum communication over a 50 km noisy fiber channel. In *OPTICA*, 2024, vol. 11, no. 8, pp. 1056-1061. ISSN 2334-2536. Dostupné na: <https://doi.org/10.1364/OPTICA.523955>, Registrované v: WOS

ADCA186 DOLATKHAH, Hazhir - MOHAMMADI, Abolhassan** - HASELI, Soroush. The tripartite quantum-memory-assisted entropic uncertainty relation and upper bound on shareability of quantum discord. In *Scientific Reports*, 2022, vol. 12, no. 1, art. no. 4101. (2021: 4.997 - IF, Q2 - JCR, 1.005 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-022-08098-z>

Citácie:

1. [1.1] LUO, Jiaxin - GUO, Qiong. Quantum Discord for Three-qubit Extended X-states. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 5, art. no. 129. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05668-x>, Registrované v: WOS

ADCA187 DOUPOVEC, Juraj - SITEK, J. - KAKOS, J. Crystallization of iron phosphate-glasses. In *Journal of Thermal Analysis and Calorimetry*, 1981, vol. 22, no. 2, p. 213-219. ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/BF01915267>

Citácie:

1. [1.1] MUNOZ, Angel Sota - BURGOS, Nerea - ZHUKOVA, Valentina - TALAAT, Ahmed - IPATOV, Mihail - GONZALEZ, Julian - MARTIN, Jose Manuel. Study of an iron phosphate soft magnetic composite and its stability at high temperatures. In *CERAMICS INTERNATIONAL*, 2024, vol. 50, no. 13. ISSN 0272-8842. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.03.349>, Registrované v: WOS

ADCA188 DROBNÝ, Gabriel - HAVUKAINEN, M. - BUŽEK, Vladimír. Stimulated Emission via quantum Interference: Scattering of one-photon Stimulated emission via quantum interference: Scattering of one-photon packets on an atom in a ground state. In *Journal of Modern Optics*, 2000, vol. 47, no. 5, p. 851-860. (1999: 1.475 - IF). ISSN 0950-0340. Dostupné na: <https://doi.org/10.1080/095003400147782>

Citácie:

1. [1.1] CHUIKIN, O. A. - GREENBERG, Ya. S. - SHTYGASHEV, A. A. - MOISEEV, A. G. Single-photon stimulated emission in waveguide quantum electrodynamics. In *EUROPEAN PHYSICAL JOURNAL B*, 2024, vol. 97, no. 10, art. no. 159. ISSN 1434-6028. Dostupné na: <https://doi.org/10.1140/epjb/s10051-024-00784-3>, Registrované v: WOS

ADCA189 DROBNÝ, Gabriel - JEX, I. Quantum-properties of field modes in trilinear optical processes. In *Physical Review A*, 1992, vol. 46, no. 1, p. 499-506. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.46.499>

Citácie:

1. [1.1] CHINNI, Karthik - QUESADA, Nicolas. Beyond the parametric approximation: Pump depletion, entanglement, and squeezing in macroscopic down-conversion. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 1, art. no. 013712. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.110.013712>, Registrované v: WOS

2. [1.1] MAHMOUDI, Payman - RITBOON, Atirach - FILIP, Radim. Optimal quantum sensing of the nonlinear bosonic interactions using Fock states. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 4, art. no. 043215. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.043215>, Registrované v: WOS

3. [1.1] VALTIERRA, I. F. - GAETA, M. B. - KLIMOV, A. B. Nondispersive

evolution of the pump mode in down-conversion processes and in the presence of Kerr nonlinearity. In PHYSICAL REVIEW A, 2024, vol. 109, no. 3, art. no. 033714. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.109.033714>, Registrované v: WOS

- ADCA190 DROBNÝ, Gabriel - BANDILLA, A - JEX, Igor. Quantum description of nonlinearly interacting oscillators via classical trajectories. In Physical Review A, 1997, vol. 55, no. 1, p. 78-93. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.55.78>

Citácie:

1. [1.1] BELOIAROV, V. A. - VALTIERRA, I. F. - KLIMOV, A. B. Semiclassical spectra of the single- and two-photon Tavis-Cummings models. In JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS, 2024, vol. 41, no. 8, pp. C228-C234. ISSN 0740-3224. Dostupné na:

<https://doi.org/10.1364/JOSAB.524023>, Registrované v: WOS

2. [1.1] CHINNI, Karthik - QUESADA, Nicolas. Beyond the parametric approximation: Pump depletion, entanglement, and squeezing in macroscopic down-conversion. In PHYSICAL REVIEW A, 2024, vol. 110, no. 1, art. no. 013712. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.110.013712>, Registrované v: WOS

- ADCA191 DROBNÝ, Gabriel - JEX, Igor. Collapses and revivals in the energy exchange in the process of kappa-photon down-conversion with quantized pump. In Physical Review A, 1992, vol. 45, no. 3, p. 1816-1821. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.45.1816>

Citácie:

1. [1.1] GOMBKOTO, Akos - VARRO, Sandor - PUSZTAI, Bela Gabor - MAGASHEGYI, Istvan - CZIRJAK, Attila - HACK, Szabolcs - FOLDI, Peter. Parametric model for high-order harmonic generation with quantized fields. In PHYSICAL REVIEW A, 2024, vol. 109, no. 5, art. no. 053717. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.053717>, Registrované v: WOS

- ADCA192 DROBNÝ, Gabriel - JEX, I. - BUŽEK, Vladimír. Mode entanglement in nondegenerate down-conversion with quantized pump. In Physical Review A, 1993, vol. 48, no. 1, p. 569-579. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.48.569>

Citácie:

1. [1.1] VALTIERRA, I. F. - GAETA, M. B. - KLIMOV, A. B. Nondispersive evolution of the pump mode in down-conversion processes and in the presence of Kerr nonlinearity. In PHYSICAL REVIEW A, 2024, vol. 109, no. 3, art. no. 033714. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.109.033714>, Registrované v: WOS

- ADCA193 DRUMMOND, M.C. - JOSS, D.T. - PAGE, R. - SIMPSON, J. - O'DONNELL, D. - ANDGREN, K. - BIANCO, L. - CEDERWALL, B. - DARBY, I.G. - EECKHAUDT, S. - GOMEZ-HOMILLOS, M.B. - GRAHN, T. - GREENLEES, P.T. - HADINIA, B. - JONES, P.M. - JULIN, R. - JUUTINEN, S. - KETELHUT, S. - LEPPAENEN, A.P. - LEINO, M. - NYMAN, M. - PAKARINEN, J. - RAHKILA, P. - SANDZELIUS, M. - SAPPLE, P.J. - SAREN, J. - SAYGI, B. - SCHOLEY, C. - SORRI, J. - THOMSON, J. - UUSITALO, J. - VENHART, Martin. Low-lying excited states in the neutron-deficient isotopes 163Os and 165Os. In Physical Review C, 2013, vol. 87, no. 5, art. no. 054309. (2012: 3.715 - IF, 2.769 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.87.054309>

Citácie:

1. [1.1] SINGH, Balraj - CHEN, Jun. Nuclear Structure and Decay Data for $A=165$ Isobars. In NUCLEAR DATA SHEETS, 2024, vol. 194, no., pp. 460-877. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.02.003>, Registrované v: WOS

ADCA194 DUBECKÝ, Matúš - JUREČKA, P. - DERIAN, René - HOBZA, P. - OTYEPKA, M. - MITÁŠ, L. Quantum Monte Carlo methods describe noncovalent interactions with subchemical accuracy. In Journal of Chemical Theory and Computation, 2013, vol. 9, no. 10, p. 4287-4292. (2012: 5.389 - IF, Q1 - JCR, 2.784 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1549-9618. Dostupné na: <https://doi.org/10.1021/ct4006739>

Citácie:

1. [1.1] KARTASHYNSKA, E. S. - VOLLHARDT, D. Description of surfactant 2D monolayer formation at the air/water interface within semiempirical quantum chemistry. In JCIS OPEN, 2024, vol. 14, no., art. no. 100110. ISSN 2666-934X. Dostupné na: <https://doi.org/10.1016/j.jciso.2024.100110>, Registrované v: WOS
2. [1.1] ZHOU, Xiaojun - HUANG, Zhiru - HE, Xiao. Diffusion Monte Carlo method for barrier heights of multiple proton exchanges and complexation energies in small water, ammonia, and hydrogen fluoride clusters. In JOURNAL OF CHEMICAL PHYSICS, 2024, vol. 160, no. 5, art. no. 054103. ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/5.0182164>, Registrované v: WOS

ADCA195 DUBNIČKA, Stanislav - DUBNIČKOVÁ, A.Z. - HABYL, N. - IVANOV, M.A. - LIPTAJ, Andrej - NURBAKOVA, G.S. Decay $B \rightarrow K^*(\rightarrow K\pi)l+l-$ in Covariant Quark Model. In Few-Body Systems, 2016, vol. 57, no. 2, p. 121-143. (2015: 0.558 - IF, Q4 - JCR, 0.367 - SJR, Q3 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0177-7963. Dostupné na: <https://doi.org/10.1007/s00601-015-1034-4>

Citácie:

1. [1.1] ILYASSOV, M. N. - ISSADYKOV, A. N. Calculation of form factors, stringing and angular observables for the B^*-O transition in the framework of the covariant quark model. In RECENT CONTRIBUTIONS TO PHYSICS, 2024, vol. 91, no. 4, pp. 4-11. ISSN 1563-0315. Dostupné na: <https://doi.org/10.26577/RCPh.2024.v91.i4.a1>, Registrované v: WOS

ADCA196 DUBNIČKA, Stanislav - DUBNIČKOVÁ, A. Z. - IVANOV, M. A. - LIPTAJ, Andrej - SANTORELLI, P. - TRAN, C. T.**. Study of $B-s-l(+)l(-)$ gamma decays in covariant quark model. In Physical Review D, 2019, vol. 99, no. 1, art. no. 014042. (2018: 4.368 - IF, Q1 - JCR, 1.703 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: <https://doi.org/10.1103/PhysRevD.99.014042>

Citácie:

1. [1.1] PANDYA, J.N.- SANTORELLI, P. - SONI, N.R. Prediction of various observables for $Bs0 \rightarrow D(*)-s l+ve$ within covariant confined quark model. In EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS. 2024, vol. 233, no. 11-12, pp.2075-2086., Registrované v: WOS

ADCA197 DUBNIČKA, Stanislav - DUBNIČKOVÁ, A. Z. - ISSADYKOV, A.** - IVANOV, M. A.** - LIPTAJ, Andrej**. Study of B_c decays into charmonia and D mesons. In Physical Review D, 2017, vol. 96, no. 7, art. no. 076017. (2016: 4.557 - IF, Q1 - JCR, 2.115 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: <https://doi.org/10.1103/PhysRevD.96.076017>

Citácie:

1. [1.1] NAYAK, Lopamudra - PATNAIK, Sonali - SADANGI, Priyanka - SWAIN, Sanjay Kumar. Study of exclusive decays of $B S^* \psi(1S, 2S) K S$ and $B S^* \eta c(1S, 2S) K S$. In PHYSICAL REVIEW D, 2024, vol. 110, no. 11, art. no. 113003.

ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.113003>,
Registrované v: WOS

2. [1.1] PANDYA, J. N. - SANTORELLI, P. - SONI, N. R. Prediction of various observables for $Bs_{\text{SUP}}/S_{\text{UP}} \rightarrow D_{\text{SUP}}(^*)/S_{\text{UP}} l + \nu$ within covariant confined quark model. In EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, 2024, vol. 233, no. 11-12, pp. 2075-2086. ISSN 1951-6355. Dostupné na:

<https://doi.org/10.1140/epjs/s11734-023-01006-0>, Registrované v: WOS

ADCA198

DUBNIČKA, Stanislav - DUBNIČKOVÁ, A.Z. - IVANOV, M.A. - KORNER, J.G. - SANTORELLI, P. - SAIDULLAEVA, G.G. One-photon decay of the tetraquark state $X(3872)$ gamma plus J/Ψ in a relativistic constituent quark model with infrared confinement. In Physical Review D, 2011, vol. 84, no. 1, art. no. 014006. (2010: 4.964 - IF, Q1 - JCR, 2.759 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na:

<https://doi.org/10.1103/PhysRevD.84.014006>

Citácie:

1. [1.2] ABLIKIM, M. - ACHASOV, M. N. - ADLARSON, P. - AFEDULIDIS, O. - AI, X. C. - ALIBERTI, R. - AMOROSO, A. - AN, Q. - BAI, Y. - BAKINA, O. - BALOSSINO, I. - BAN, Y. - BAO, H. R. - BATOZSKAYA, V. - BEGZSUREN, K. - BERGER, N. - BERLOWSKI, M. - BERTANI, M. - BETTONI, D. - BIANCHI, F. - BIANCO, E. - BORTONE, A. - BOYKO, I. - BRIERE, R. A. - BRUEGGEMANN, A. - CAI, H. - CAI, X. - CALCATERRA, A. - CAO, G. F. - CAO, N. - CETIN, S. A. - CHANG, J. F. - CHE, G. R. - CHELKOV, G. - CHEN, C. - CHEN, C. H. - CHEN, Chao - CHEN, G. - CHEN, H. S. - CHEN, H. Y. - CHEN, M. L. - CHEN, S. J. - CHEN, S. L. - CHEN, S. M. - CHEN, T. - CHEN, X. R. - CHEN, X. T. - CHEN, Y. B. - CHEN, Y. Q. - CHEN, Z. J. - CHEN, Z. Y. - CHOI, S. K. - CIBINETTO, G. - COSSIO, F. - CUI, J. J. - DAI, H. L. - DAI, J. P. - DBEYSSI, A. - DE BOER, R. E. - DEDOVICH, D. - DENG, C. Q. - DENG, Z. Y. - DENIG, A. - DENYSENKO, I. - DESTEFANIS, M. - DE MORI, F. - DING, B. - DING, X. X. - DING, Y. - DING, Y. - DONG, J. - DONG, L. Y. - DONG, M. Y. - DONG, X. - DU, M. C. - DU, S. X. - DUAN, Y. Y. - DUAN, Z. H. - EGOROV, P. - FAN, Y. H. - FANG, J. - FANG, J. - FANG, S. S. - FANG, W. X. - FANG, Y. - FANG, Y. Q. - FARINELLI, R. - FAVA, L. - FELDBAUER, F. - FELICI, G. - FENG, C. Q. - FENG, J. H. - FENG, Y. T. - FRITSCH, M. - FU, C. D. - FU, J. L. - FU, Y. W. - GAO, H. - GAO, X. B. - GAO, Y. N. Study of $e^+e^- \rightarrow \omega X(3872)$ and $\gamma X(3872)$ from 4.66 to 4.95 GeV. In Physical Review D, 2024-07-01, 110, 1, pp. ISSN 24700010. Dostupné na:

<https://doi.org/10.1103/PhysRevD.110.012006>, Registrované v: SCOPUS

2. [1.2] LIU, Ming Zhu - LING, Xi Zhe - GENG, Li Sheng. Productions of $X(3872)/Z_c(3900)$ and $X_2(4013)/Z_c(4020)$ in $\gamma(4220)$ and $\gamma(4360)$ decays. In Physical Review D, 2024-09-01, 110, 5, pp. ISSN 24700010. Dostupné na:

<https://doi.org/10.1103/PhysRevD.110.054035>, Registrované v: SCOPUS

3. [1.2] YU, Shuo Ying - KANG, Xian Wei. Nature of $X(3872)$ from its radiative decay. In Physics Letters Section B Nuclear Elementary Particle and High Energy Physics, 2024-01-01, 848, pp. ISSN 03702693. Dostupné na:

<https://doi.org/10.1016/j.physletb.2023.138404>, Registrované v: SCOPUS

ADCA199

DUBNIČKA, Stanislav** - DUBNIČKOVÁ,, A. Z. - ISSADYKOV, A. - IVANOV, M. A. - LIPTAJ, Andrej**. $Y(4260)$ as a four-quark state. In Physical Review D, 2020, vol. 101, no. 9, art. no. 094030. (2019: 4.833 - IF, Q1 - JCR, 1.664 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: <https://doi.org/10.1103/PhysRevD.101.094030>

Citácie:

1. [1.1] GANBOLD, G. Hidden-Charm Strong Decays of Charmonium-Like State $Y(4230)$. In PHYSICS OF PARTICLES AND NUCLEI, 2024, vol. 55, no. 4, pp.

781-785. ISSN 1063-7796. Dostupné na:

<https://doi.org/10.1134/S1063779624700175>, Registrované v: WOS

2. [1.1] XIE, Yiling - SUN, Hao. Strong decay of $Y(4230) \rightarrow J/\psi f_0(980)$ in light cone sum rules. In CHINESE PHYSICS C, 2024, vol. 48, no. 2, art. no. 023105. ISSN 1674-1137. Dostupné na: <https://doi.org/10.1088/1674-1137/ad13f9>, Registrované v: WOS

ADCA200 DUBNIČKA, Stanislav - DUBNIČKOVÁ, A.Z. - IVANOV, M.A. - LIPTAJ, Andrej**. Decays $B \rightarrow D^{(*)}(s)h$ ($h=\pi, \rho$) in a confined covariant quark model. In Physical Review D, 2022, vol. 106, no. 3, art. no. 033006. (2021: 5.407 - IF, Q1 - JCR, 1.677 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: <https://doi.org/10.1103/PhysRevD.106.033006>

Citácie:

1. [1.1] PANDYA, J. N. - SANTORELLI, P. - SONI, N. R. Prediction of various observables for $B_s \text{SUP}0/\text{SUP} \rightarrow D \text{SUP}(*)/\text{SUPs}$ l+ve within covariant confined quark model. In EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, 2024, vol. 233, no. 11-12, pp. 2075-2086. ISSN 1951-6355. Dostupné na:

<https://doi.org/10.1140/epjs/s11734-023-01006-0>, Registrované v: WOS

ADCA201 DUBNIČKA, Stanislav* - DUBNIČKOVÁ, Anna Z.* - IVANOV, Mikhail A.* - LIPTAJ, Andrej**. B Meson Decays in the Covariant Confined Quark Model. In Symmetry-Basel, 2023, vol. 15, no. 8, art. no. 1542. (2022: 2.7 - IF, Q2 - JCR, 0.483 - SJR, Q2 - SJR). ISSN 2073-8994. Dostupné na: <https://doi.org/10.48550/arXiv.2309.05412>

Citácie:

1. [1.1] VORONIN, Vladimir. Leptonic and semileptonic decays of mesons in the domain model of the QCD vacuum. In PHYSICAL REVIEW D, 2024, vol. 110, no. 1, art. no. 014040. ISSN 2470-0010. Dostupné na:

<https://doi.org/10.1103/PhysRevD.110.014040>, Registrované v: WOS

ADCA202 DUBNIČKOVÁ, A.Z. - DUBNIČKA, Stanislav - REKALO, M.P. Investigation of the baryon electromagnetic structure by polarization effects in $e^{+}e^{-}B(B)\text{over-bar}$ processes. In Nuovo Cimento della Societa Italiana di Fisica A, 1996, vol. 109, no. 3, p. 241-156. ISSN 0369-3546. Dostupné na: <https://doi.org/10.1007/BF02731012>

Citácie:

1. [1.1] Ablikim, M. - Achasov, M.N. - Adlarson, P. - et al. Determination of the Σ plus Timelike Electromagnetic Form Factors. In PHYSICAL REVIEW LETTERS, 2024, vol. 132, no. 8, art. no. 081904., Registrované v: WOS

2. [1.1] Ablikim, M. - Achasov, M.N. - Adlarson, P. - et al. Strong and Weak CP Tests in Sequential Decays of Polarized Σ^0 Hyperons. In PHYSICAL REVIEW LETTERS, 2024, vol. 133, no. 10, art. no. 101902., Registrované v: WOS

3. [1.1] Ablikim, M. - Achasov, M.N. - Adlarson, P. - et. al. Extracting the femtometer structure of strange baryons using the vacuum polarization effect. In NATURE COMMUNICATIONS, 2024, vol. 15, no. 1, art. no. 8812., Registrované v: WOS

4. [1.1] Cao, X. - Liang, Y.T. - Ping, R.G. Production and decay of hyperons in a transversely polarized electron-positron collider. In PHYSICAL REVIEW D, 2024, vol. 110, no. 1, art. no. 014035., Registrované v: WOS

5. [1.1] Pacetti, S. - Tomasi-Gustafsson, E. - Mangoni, A. - et. al. Up and down the Riemann surfaces of the Λ baryon form factors. In 16th Varenna Conference on Nuclear Reaction Mechanisms (NRM), 2024, 16TH VARENNIA CONFERENCE ON NUCLEAR REACTION MECHANISMS, NRM 2023, vol. 292, art. no. 03003., Registrované v: WOS

6. [1.1] Wang, YD. Recent results of baryon EM form factors at BESIII. In 16th

Varenn Conference on Nuclear Reaction Mechanisms (NRM), 2024, 16TH VARENN CONFERENCE ON NUCLEAR REACTION MECHANISMS, NRM 2023, vol. 292, art. no. 03002., Registrované v: WOS

7. [1.1] Wu, S.H. - Qian, C. - Wang, Q. - Zhou, X.R. Bell nonlocality and entanglement in e plus $e^- \rightarrow YY$ at BESIII. In PHYSICAL REVIEW D, 2024, vol. 110, no. 5, art. no. 054012., Registrované v: WOS

8. [1.1] Zhang, Z.- Ping, R.G. - Liu, T. - et al. Polarization analysis of two baryons with various spin combinations produced in electron-positron annihilation. In PHYSICAL REVIEW D, 2024, vol. 110, no. 3, art. no. 034034., Registrované v: WOS

9. [1.1] Zhang, Z.H. How to measure the transverse polarization of the produced hadrons in a symmetric collider? In PHYSICAL REVIEW D, 2024, vol. 109, no. 1, art. no. L011103., Registrované v: WOS

ADCA203 DUHAJ, Pavol - MAŤKO, Igor - ŠVEC, Peter - SITEK, J. - JANIČKOVIČ, Dušan. Structural investigation of Fe(Cu)ZrB amorphous alloy. In Materials Science and Engineering B, 1996, vol. 39, no. 3, p. 208-215. ISSN 1921-5107. Dostupné na: [https://doi.org/10.1016/0921-5107\(96\)01573-5](https://doi.org/10.1016/0921-5107(96)01573-5)

Citácie:

1. [1.1] KHATUN, H. - NATH, S. D. - SIKDER, S. S. Kinetics of crystallization and soft magnetic properties of Co₇₂Fe₈B₁₀Si₁₀ amorphous alloys. In PHYSICA B-CONDENSED MATTER, 2024, vol. 691, no., art. no. 416300. ISSN 0921-4526. Dostupné na:

<https://doi.org/10.1016/j.physb.2024.416300>, Registrované v: WOS

ADCA204 DUHAJ, Pavol - SLÁDEK, V. - MRAFKO, Peter. Electron-microscopic study of crystallization kinetics of the amorphous alloy Pd₈₀Si₂₀. In Journal of Non-Crystalline Solids, 1974, vol. 13, no. 2, p. 341-354. ISSN 0022-3093. Dostupné na: [https://doi.org/10.1016/0022-3093\(74\)90102-1](https://doi.org/10.1016/0022-3093(74)90102-1)

Citácie:

1. [1.1] YU, Bingjiao - ZHAO, Rui - LU, Zhen - SU, Hangbo - LIANG, Binye - LIU, Bingjie - MA, Chunlan - ZHU, Yan - LI, Zian. Thermal Stability and Crystallization Processes of Pd₇₈Au₄Si₁₈ Thin Films Visualized via In Situ TEM. In NANOMATERIALS, 2024, vol. 14, no. 7, art. no. 635. Dostupné na:

<https://doi.org/10.3390/nano14070635>, Registrované v: WOS

ADCA205 DULANSKÁ, Silvia** - ZVACHOVÁ, Sabína - SILLIKOVÁ, Veronika - MÁTEL, Ľubomír - ŠAUŠA, Ondrej - MAŤKO, Igor. Modified biosorbent wood-decay fungus Fomes fomentarius for pre-concentration of ¹³⁷Cs in water samples. In Journal of Radioanalytical and Nuclear Chemistry, 2018, vol. 318, no. 3, p. 2493–2500. (2017: 1.181 - IF, Q2 - JCR, 0.470 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0236-5731. Dostupné na: <https://doi.org/10.1007/s10967-018-6332-0>

Citácie:

1. [1.1] AZAM, T. - ALI, I. - CHEN, X. - IQBAL, I. Bacteria were unable to tolerate the radionuclides, while the halophilic fungi tolerated and efficiently remediated them. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, 2024, vol. 21, no. 12, pp. 8105-8112. ISSN 1735-1472. Dostupné na: <https://doi.org/10.1007/s13762-024-05519-6>, Registrované v: WOS

2. [1.2] BERDIMURODOV, Elyor - BERDIMURADOV, Khasan - ELIBOYEV, Ilyos - VERMA, Dakeshwar Kumar - DAGDAG, Omar. Application of Biosorbents in Separation of Radionuclides. In Biosorbents Diversity Bioprocessing and Applications, 2024-01-01, pp. 218-227. ISBN [9781032399744, 9781003857976]. Dostupné na: <https://doi.org/10.1201/9781003366058-14>, Registrované v:

SCOPUS

- ADCA206 ĎURIŠKA, Libor** - PALCUT, Marián - ŠPOTÁK, Martin - ČERNÍČKOVÁ, Ivona - GONDEK, Ján - PRIPUTEN, Pavol - ČIČKA, Roman - JANIČKOVIČ, Dušan - JANOVEC, Jozef. Microstructure, Phase Occurrence, and Corrosion Behavior of As-Solidified and As-Annealed Al-Pd Alloys. In *Journal of Materials Engineering and Performance*, 2018, vol. 27, no. 4, p. 1601-1613. (2017: 1.340 - IF, Q3 - JCR, 0.611 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1059-9495. Dostupné na: <https://doi.org/10.1007/s11665-018-3245-6>
- Citácie:
1. [1.1] LIAQUAT, Irfan - KHAN, Abdul Munam - ZIYA, Amer Bashir. Effect of pre-annealing temperature on electrochemical corrosion performance of the Au50Ag25Pd25 alloy in human artificial saliva. In *EUROPEAN PHYSICAL JOURNAL PLUS*, 2024, vol. 139, no. 10, art. no. 953. ISSN 2190-5444. Dostupné na: <https://doi.org/10.1140/epjp/s13360-024-05757-0>, Registrované v: WOS
- ADCA207 DUSZA, Ján - ŠVEC, Peter Jr. - GIRMAN, Vladimír - SEDLÁK, Richard** - CASTLE, Elinor - CSANÁDI, Tamás - KOVALČÍKOVÁ, Alexandra - REECE, Michael J. Microstructure of (Hf-Ta-Zr-Nb)C high-entropy carbide at micro and nano/atomic level. In *Journal of the European Ceramic Society*, 2018, vol. 38, no. 12, p. 4303-4307. (2017: 3.794 - IF, Q1 - JCR, 1.068 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0955-2219. Dostupné na: <https://doi.org/10.1016/j.jeurceramsoc.2018.05.006>
- Citácie:
1. [1.1] CAI, F.Y. - NI, D.W. - DONG, S.M. Research Progress of High-entropy Carbide Ultra-high Temperature Ceramics. In *JOURNAL OF INORGANIC MATERIALS*. ISSN 1000-324X, JUN 20 2024, vol. 39, no. 6, p. 591-608. Dostupné na: <https://doi.org/10.15541/jim20230562>, Registrované v: WOS
2. [1.1] DEB, J.B. - GOU, J.H. - SONG, H.A. - MAITI, C. Machine Learning Approaches for Predicting the Ablation Performance of Ceramic Matrix Composites. In *JOURNAL OF COMPOSITES SCIENCE*. ISSN 2504-477X, MAR 2024, vol. 8, no. 3. Dostupné na: <https://doi.org/10.3390/jcs8030096>, Registrované v: WOS
3. [1.1] DENG, X.C. - ZHANG, G.H. Preparation of high-performance (ZrHfTaNbTiMo)C-10Co ceramic by SPS using self-synthesized fine high-entropy carbide powders. In *CERAMICS INTERNATIONAL*. ISSN 0272-8842, JUN 15 2024, vol. 50, no. 12, p. 21050-21058. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.03.213>, Registrované v: WOS
4. [1.1] DU, B. - GUO, L.W. - HUANG, Q.H. - OUYANG, Y.M. - CHENG, Y. - YANG, J.P. - CHENG, Y. Novel synthesis of (Hf 0.25 Zr 0.25 Ti 0.25 Ta 0.25)C-SiC biphasic ceramic micro-powders using single-source-precursor route. In *CERAMICS INTERNATIONAL*. ISSN 0272-8842, NOV 15 2024, vol. 50, no. 22, B, p. 46166-46172. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.08.459>, Registrované v: WOS
5. [1.1] DUAN, J.M. - JI, R.W. - MA, L. - SHAO, L. Ab initio study of intrinsic mechanical properties of high-entropy carbides (HfTaZrM)C (M = Ti and Nb). In *MATERIALS TODAY COMMUNICATIONS*. AUG 2024, vol. 40. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2024.109968>, Registrované v: WOS
6. [1.1] FENG, X.K. - WANG, X.C. - WU, L.F. - CHAI, B. - FU, L. The effects of refractory elements on the properties of quaternary high entropy carbides-A first-principles and experiment study. In *COMPUTATIONAL MATERIALS SCIENCE*. ISSN 0927-0256, OCT 2024, vol. 245. Dostupné na: <https://doi.org/10.1016/j.commatsci.2024.113324>, Registrované v: WOS
7. [1.1] FU, L. - WANG, B.H. - JIANG, F.Q. - YU, W.J. - XIA, W. Crystalline-

- amorphous dual-phase ceramic nanocomposites regulated by entropy engineering. In JOURNAL OF THE AMERICAN CERAMIC SOCIETY. ISSN 0002-7820, NOV 2024, vol. 107, no. 11, p. 7497-7512. Dostupné na: <https://doi.org/10.1111/jace.20003>, Registrované v: WOS
8. [1.1] LI, C.Y. - GAO, R.A. - OUYANG, H.B. - SHEN, T.Z. - CHEN, Z.H. - LI, Y.L. Hierarchical porous (Ta_{0.2}Nb_{0.2}Ti_{0.2}Zr_{0.2}Hf_{0.2})C high-entropy ceramics prepared by a self-foaming method for thermal insulation. In JOURNAL OF ADVANCED CERAMICS. ISSN 2226-4108, JUL 2024, vol. 13, no. 7, p. 956-966. Dostupné na: <https://doi.org/10.26599/JAC.2024.9220909>, Registrované v: WOS
9. [1.1] LI, J. - HE, L. - PENG, F. - LIU, B. - LI, Q. - ZHAO, S.J. - WU, Z.G. Optimized process and superior toughness of a (HfNbTaTiW)C high entropy carbide ceramic. In CERAMICS INTERNATIONAL. ISSN 0272-8842, SEP 15 2024, vol. 50, no. 18, A, p. 32129-32137. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.06.017>, Registrované v: WOS
10. [1.1] LI, J.C. - LU, F.Y. - LI, T. - FU, Y.Q. - ZHAO, J.H. - LV, J.S. - ZHANG, Y.L. Superior synergistic oxidation resistance of medium-entropy carbide ceramic powders rather than multi-phase carbide ceramic powders. In JOURNAL OF ADVANCED CERAMICS. ISSN 2226-4108, AUG 2024, vol. 13, no. 8, p. 1223-1233. Dostupné na: <https://doi.org/10.26599/JAC.2024.9220931>, Registrované v: WOS
11. [1.1] LI, L. - QIU, S.H. - ZOU, J. - LIU, J.J. - JI, W. - WANG, W.M. - FU, Z.Y. Synthesis of high entropy monoboride (Mo_{0.25}W_{0.25}Cr_{0.25}Ta_{0.25})B powders with abundant twins from oxides. In JOURNAL OF THE AMERICAN CERAMIC SOCIETY. ISSN 0002-7820, JUL 2024, vol. 107, no. 7, p. 4423-4429. Dostupné na: <https://doi.org/10.1111/jace.19784>, Registrované v: WOS
12. [1.1] LIU, C.L. - JIANG, X.S. - SUN, H.L. - PANG, Y. - WU, Z.X. - YANG, L. Oxidation behaviour of nickel-coated graphene films reinforced laminated CoCrFeMnNi high-entropy alloy in steam environment at 900 °C. In MATERIALS TODAY COMMUNICATIONS. DEC 2024, vol. 41. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2024.111055>, Registrované v: WOS
13. [1.1] LIU, L.J. - HE, L. - PENG, F. - DAI, F.F. - ZHANG, W.D. - WU, Z.G. Optimization of sintering process to fabricate high-density ultrafine-grained (HfNbTaTiZrW)C ceramic: A comparative study. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. ISSN 0955-2219, NOV 2024, vol. 44, no. 14. Dostupné na: <https://doi.org/10.1016/j.jeurceramsoc.2024.05.073>, Registrované v: WOS
14. [1.1] MA, B. - WEN, Z.Q. - QIN, J.D. - LU, T.Y. - TANG, L. - WU, Z.Y. - ZHAO, Y.H. Formation and mechanical properties of Y-substituted (Ce_{0.2}Zr_{0.2}La_{0.2}Sm_{0.2}Nd_{0.2})O_{2-δ} high-entropy fluorite oxide. In JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T. ISSN 2238-7854, NOV-DEC 2024, vol. 33, p. 7325-7332. Dostupné na: <https://doi.org/10.1016/j.jmrt.2024.11.100>, Registrované v: WOS
15. [1.1] MA, B. - WEN, Z.Q. - QIN, J.D. - WU, Z.Y. - LIU, J.X. - LV, Y.M. - YU, J.J. - ZHAO, Y.H. Synthesis and microstructure of (Ce_{0.2}Zr_{0.2}La_{0.2}Sm_{0.2}Nd_{0.2})O_{2-δ} high-entropy oxides characterized by fluorite structure. In CERAMICS INTERNATIONAL. ISSN 0272-8842, JAN 1 2024, vol. 50, no. 1, B, p. 1981-1989. Dostupné na: <https://doi.org/10.1016/j.ceramint.2023.10.303>, Registrované v: WOS
16. [1.1] OUELDA, N. - SABI, N. - AZIAM, H. - TRABADELO, V. - BEN YUCEF, H. High-entropy materials for thermoelectric applications: towards performance and reliability. In MATERIALS HORIZONS. ISSN 2051-6347, MAY 20 2024, vol. 11, no. 10. Dostupné na: <https://doi.org/10.1039/d3mh02181e>,

Registrované v: WOS

17. [1.1] SIDNOV, K. - MOSKOVSKIKH, D. - VOLODKO, S. - YUDIN, S. - ZHANG, C.Y. - VOROTILO, S. High-throughput assessment of stability and mechanical properties of medium- and high-entropy carbides: Bridging empirical criteria and ab-initio calculations. In COMPUTATIONAL MATERIALS SCIENCE. ISSN 0927-0256, SEP 2024, vol. 244. Dostupné na:

<https://doi.org/10.1016/j.commatsci.2024.113158>, Registrované v: WOS

18. [1.1] SONG, X.P. - ZHANG, M.Z. - LIU, L.J. - XU, J.G. Redox Stability and Electrical Properties of a Series of Novel Quadruple Dopant BIMEVOX: $\text{Bi}_2\text{V}_{1-4x}(\text{CuNiNbTi})_x\text{O}_{5.5-\delta}$. In PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE. ISSN 1862-6300, JUL 2024, vol. 221, no. 14. Dostupné na: <https://doi.org/10.1002/pssa.202300915>, Registrované v: WOS

19. [1.1] SU, W.T. - CHEN, L. - HUO, S.J. - ZHANG, W. - WANG, Y.J. - ZHOU, Y. Fracture mode transition from intergranular to transgranular in $(\text{TiZrNbTaCr})\text{C}$: The grain boundary purification effect of Cr carbide. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. ISSN 0955-2219, APR 2024, vol. 44, no. 4, p. 1881-1889. Dostupné na: <https://doi.org/10.1016/j.jeurceramsoc.2023.11.002>, Registrované v: WOS

20. [1.1] WANG, C. - PAN, J. - LYU, F. - LONG, Y.C. - LI, H.K. - ZHAO, C.H. - YAO, L. - LI, Z.B. - OU, W.H. - ZHOU, B.B. - SHEN, J. - WANG, J.C. - XU, Y.X. - MAO, Z.Y. - CHEN, Y.X. - XIAO, X.F. - LIANG, G.M. - ZENG, N. - LU, J. - LI, Y.Y. Electroconductive high-entropy metallic oxide ceramic composites with outstanding water evaporation ability and biocompatibility. In ADVANCED COMPOSITES AND HYBRID MATERIALS. ISSN 2522-0128, AUG 2024, vol. 7, no. 4. Dostupné na: <https://doi.org/10.1007/s42114-024-00916-4>, Registrované v: WOS

21. [1.1] WANG, H.Y. - BI, J.Q. - YANG, Y. - QIAO, L.J. - LIANG, G.D. - WANG, S.Y. - YUAN, J.L. - CHEN, Y.G. Preparation, characterization and performance of high-entropy carbonitride ceramics. In CERAMICS INTERNATIONAL. ISSN 0272-8842, JAN 15 2024, vol. 50, no. 2, A, p. 3034-3040. Dostupné na: <https://doi.org/10.1016/j.ceramint.2023.11.051>, Registrované v: WOS

22. [1.1] WANG, Y.L. - ZHANG, J. - WU, T.B. - HUANG, G.J. Full-scale insight into high-entropy ceramics from basic concepts, synthesis technologies, structural characteristics, and properties to application prospects. In JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T. ISSN 2238-7854, NOV-DEC 2024, vol. 33, p. 398-430. Dostupné na: <https://doi.org/10.1016/j.jmrt.2024.09.063>, Registrované v: WOS

23. [1.1] WEN, Z.Q. - WU, Z.Y. - MA, B. - QIN, J.D. - TANG, L. - LU, T.Y. - ZHAO, Y.H. Preparation and characterization of high-entropy fluorite oxides $(\text{Ce}_{0.16}\text{Zr}_{0.16}\text{La}_{0.16}\text{Sm}_{0.16}\text{Nd}_{0.16}\text{Y}_{0.16})\text{O}_{2-\delta}$ with high mechanical properties. In MATERIALS TODAY COMMUNICATIONS. DEC 2024, vol. 41. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2024.110638>, Registrované v: WOS

24. [1.1] YAN, T.X. - LUO, M.J. - CHEN, J.Z. - ZHU, H.P. - CHAI, J.L. - NIU, L.J. - CHEN, B.Y. - ZHU, Y.B. - SHEN, T.L. Microstructure and mechanical properties of high entropy $(\text{MoTaTiVW})\text{C}_5$ ceramics toughened with silicon carbide whisker. In CERAMICS INTERNATIONAL. ISSN 0272-8842, MAY 1 2024, vol. 50, no. 9, B, p. 15840-15847. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.02.063>, Registrované v: WOS

25. [1.1] YILDIRIM, H.C. - LIAW, P.K. Data-driven conditional probability to predict fatigue properties of multi-principal element alloys (MPEAs). In COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING.

ISSN 0045-7825, DEC 1 2024, vol. 432, A. Dostupné na:

<https://doi.org/10.1016/j.cma.2024.117358>, Registrované v: WOS

26. [1.1] ZHANG, J.L. - LIANG, J.L. - LI, H. - YANG, Y. - HUO, D.X. - LIU, C. A review of high-entropy ceramics preparation methods, properties in different application fields and their regulation methods. In *JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T*. ISSN 2238-7854, SEP-OCT 2024, vol. 32, p. 1083-1117. Dostupné na: <https://doi.org/10.1016/j.jmrt.2024.07.153>, Registrované v: WOS

27. [1.1] ZHENG, B.Y. - WU, Y.D. - LIN, D.Y. - LIU, X.L. - LI, C.H. - HE, P.F. - SUN, C. - LIANG, X.B. - HUI, X.D. First-principles study on the structure, mechanical and thermodynamic properties of (Ti, Hf, Nb, Ta)C high-entropy carbide ceramics. In *CERAMICS INTERNATIONAL*. ISSN 0272-8842, JUL 1 2024, vol. 50, no. 13, A, p. 23097-23104. Dostupné na:

<https://doi.org/10.1016/j.ceramint.2024.04.032>, Registrované v: WOS

28. [1.1] ZHU, Z.X. - CHEN, W.B. - BIAN, Z. - SUN, Q.C. - ZHENG, M. - ZHU, S.Y. - CHENG, J. - YANG, J. Self-lubrication of high-entropy carbide matrix composites over a wide temperature range: The synergistic effect of silver and molybdenum component. In *WEAR*. ISSN 0043-1648, JUN 1 2024, vol. 546.

Dostupné na: <https://doi.org/10.1016/j.wear.2024.205341>, Registrované v: WOS

29. [1.2] BOBOZHANOV, A. R. - ROGACHEV, A. S. Self-propagating high-temperature synthesis of high-entropy materials: A review. In *Izvestiya Vuzov. Poroshkovaya Metallurgiya i Funktsional'nye Pokrytiya*, 2024-01-01, 18, 6, pp. 5-16. ISSN 1997308X. Dostupné na: <https://doi.org/10.17073/1997-308X-2024-6-5-16>, Registrované v: SCOPUS

30. [1.2] QURESHI, Tabrez - KHAN, Mohammad Mohsin - PALI, Harveer Singh. Fabrication of ceramic material. In *Advancements in Powder Metallurgy: Processing, Applications, and Properties*, 2024-02-27, pp. 54-88. Dostupné na: <https://doi.org/10.4018/978-1-6684-9385-4.ch003>, Registrované v: SCOPUS

31. [1.2] RAJENDRACHARI, Shashanka - MAHALE, Rayappa Shrinivas. Advancements in powder metallurgy: Processing, applications, and properties. In *Advancements in Powder Metallurgy: Processing, Applications, and Properties*, 2024-02-27, pp. 1-313. Dostupné na: <https://doi.org/10.4018/978-1-6684-9385-4>, Registrované v: SCOPUS

ADCA208 DUŠEK, M. - BUŽEK, Vladimír. Quantum-controlled measurement device for quantum-state discrimination. In *Physical Review A*, 2002, vol. 66, no. 2, 022112. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.66.022112>

Citácie:

1. [1.1] LIU, Xinjian - WANG, Yukun - HAN, Yunguang - WU, Xia. Quantifying the intrinsic randomness in sequential measurements. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 1, art. no. 013026. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad19fe>, Registrované v: WOS

2. [1.1] RODARI, Giovanni - HOCH, Francesco - SUPRANO, Alessia - GIORDANI, Taira - NEGRO, Elena - CARVACHO, Gonzalo - SPAGNOLO, Nicolo - GALVAO, Ernesto F. - SCIARRINO, Fabio. Polarization-encoded photonic quantum-to-quantum Bernoulli factory based on a quantum dot source. In *SCIENCE ADVANCES*, 2024, vol. 10, no. 30, art. no. eado6244. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.ado6244>, Registrované v: WOS

3. [1.1] WANG, Shou-Ya - ZHANG, Wen-Hai. Universal programmable unambiguous discrimination of two unknown states with two copies. In *AIP ADVANCES*, 2024, vol. 14, no. 10, art. no. 105130. Dostupné na: <https://doi.org/10.1063/5.0232590>, Registrované v: WOS

ADCA209 DWIVEDI, Vishal - PROCHAZKA, David - JANIČKOVIČ, Dušan - ŠPERKA, Petr

- ŠVEC, Peter - KAISER, Jozef - VEIS, Pavel** - POŘÍZKA, Pavel. LIBS Protocol for the Assessment of Depth Profile, Homogeneity, and Quantification of Fe/Co - based Bilayer Ribbon. In *Spectrochimica Acta Part B: Atomic Spectroscopy*, 2022, vol. 196, art. no. 106509. (2021: 3.662 - IF, Q1 - JCR, 0.698 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0584-8547. Dostupné na: <https://doi.org/10.1016/j.sab.2022.106509>

Citácie:

1. [1.1] IVKOVIC, M. - SAVOVIC, J. - STANKOV, B. D. - KUZMANOVIC, M. - TRAPARIC, I. *LIBS depth-profile analysis of W/Cu functionally graded material. In SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY*, 2024, vol. 213, no., art. no. 106874. ISSN 0584-8547. Dostupné na:

<https://doi.org/10.1016/j.sab.2024.106874>, Registrované v: WOS

ADCA210

ECKSTEIN ANDICSOVÁ, Anita** - TOKÁROVÁ, Zita** - KOZMA, Erika - BALOGH, Róbert - VYKYDALOVÁ, Anna - MRÓZ, Wojciech - TOKÁR, Kamil. Thiazolo[5,4-d]thiazoles with a spirobifluorene moiety as novel D-p-A type organic hosts: design, synthesis, structure-property relationship and applications in electroluminescent devices. In *New Journal of Chemistry*, 2023, vol. 47, no. 23, p. 11165-11175. (2022: 3.3 - IF, Q2 - JCR, 0.601 - SJR, Q2 - SJR). ISSN 1144-0546. Dostupné na: <https://doi.org/10.1039/d3nj01633a>

Citácie:

1. [1.1] SICARD, Lambert - BROUILLAC, Clement - LECLERC, Nicolas - FALL, Sadiara - ZIMMERMAN, Nicolas - JEANNIN, Olivier - RAULT-BERTHELOT, Joelle - QUINTON, Cassandre - PORIEL, Cyril. Influence of the pendant substituent at the C1 position of a spirobifluorene scaffold on the electronic properties. In *MATERIALS CHEMISTRY FRONTIERS*, 2024, vol. 8, no. 5, pp. 1349-1361. Dostupné na: <https://doi.org/10.1039/d3qm01106b>, Registrované v: WOS

2. [1.2] LOLAEVA, Alina V. - ZHIVCHIKOVA, Aleksandra N. - TEPLIAKOVA, Marina M. - SAGDULLINA, Diana K. - AKKURATOV, Alexander V. - KUZNETSOV, Ilya E. Facile metal-free synthesis of thiazolo[5,4-d]thiazole-containing conjugated polymers for thin-film electronics. In *Synthetic Metals*, 2024-08-01, 306, pp. ISSN 03796779. Dostupné na:

<https://doi.org/10.1016/j.synthmet.2024.117614>, Registrované v: SCOPUS

ADCA211

EFTEKHARI, Aziz - ARJMAND, Allahveirdy* - ASHEGHVATAN, Ayyub* - ŠVAJDLENKOVÁ, Helena - ŠAUŠA, Ondrej - ABIYEV, Huseyn - AHMADIAN, Elham** - SMUTOK, Oleh - KHALILOV, Rovshan - KAVETSKYY, Taras** - CUCCHIARINI, Magali**. The potential application of magnetic nanoparticles for liver fibrosis theranostics. In *Frontiers in Chemistry*, 2021, vol. 9, art. no. 674786, [15] p. (2020: 5.221 - IF, Q2 - JCR, 1.027 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2296-2646. Dostupné na: <https://doi.org/10.3389/fchem.2021.674786>

Citácie:

1. [1.1] ALAMRI, Eman S. - BAYOMY, Hala M. - HUSSEIN, Mohamed A. Mohamady - OZAYBI, Nawal A. - ALMASOUDI, Seham E. - ZIDAN, Nahla S. - ALBALWI, Renad A. - ATTEIA, Hebatallah H. - EL-EZALY, Fayza M. Nanoemulsions of *Phoenix dactylifera* L. (Decaffeinated) and *Coffea arabica* L. Extracts as a Novel Approach for the Treatment of Carbon Tetrachloride-Mediated Liver Fibrosis. In *ANTIOXIDANTS*, 2024, vol. 13, no. 3, art. no. 355. Dostupné na: <https://doi.org/10.3390/antiox13030355>, Registrované v: WOS

2. [1.1] ALSHARE, Heba Mohammad - HUSAIN, Mohamed Saad Bala. Synthesis Methods for Preparation of Nanotechnology in Food Packaging. In *RUSSIAN JOURNAL OF APPLIED CHEMISTRY*, 2024, vol. 97, no. 9, pp. 697-707. ISSN

1070-4272. Dostupné na: <https://doi.org/10.1134/S1070427224090015>,
Registrované v: WOS

3. [1.1] BIAN, Xuefeng - GUO, Ting - CHEN, Guojie - NIE, Dengyun - YUE, Miao - ZHU, Yinxing - LIN, Mei. The therapeutic effect and MR molecular imaging of FA-PEG-FePt/DDP nanoliposomes in AMF on ovarian cancer. In *INTERNATIONAL JOURNAL OF NANOMEDICINE*, 2024, vol. 19, no., pp. 5227-5243. ISSN 1178-2013. Dostupné na: <https://doi.org/10.2147/IJN.S453601>,
Registrované v: WOS

4. [1.1] ROSCA, Irina - TURIN-MOLEAVIN, Ioana-Andreea - SARGHI, Alexandra - LUNGOCI, Ana-Lacramioara - VARGANICI, Cristian-Dragos - PETROVICI, Anca-Roxana - FIFERE, Adrian - PINTEALA, Mariana. Dextran coated iron oxide nanoparticles loaded with protocatechuic acid as multifunctional therapeutic agents. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, 2024, vol. 256, no., art. no. 128314. ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2023.128314>,
Registrované v: WOS

5. [1.1] VOGELAAR, Thomas D. - AGGER, Anne E. - RESELAND, Janne E. - LINKE, Dirk - JENSSEN, Havard - LUND, Reidar. Crafting Stable Antibiotic Nanoparticles via Complex Coacervation of Colistin with Block Copolymers. In *BIOMACROMOLECULES*, 2024, vol. 25, no. 7, pp. 4267-4280. ISSN 1525-7797. Dostupné na: <https://doi.org/10.1021/acs.biomac.4c00337>, Registrované v: WOS

6. [1.2] VARGAS-ORTÍZ, Jesús R. - GONZALEZ, C. - ESQUIVEL, K. The Magnetic Nanoparticle Actions: A Subtle Border Between Biomedicine and Toxicology. In *Nanomaterials for Biomedical and Bioengineering Applications*, 2024-01-01, pp. 27-56. ISBN [9789819702206, 9789819702213]. Dostupné na: https://doi.org/10.1007/978-981-97-0221-3_2, Registrované v: SCOPUS

ADCA212 EGGERS, T.** - LAM, D.S. - THIABGOH, O. - MARCIN, Jozef - ŠVEC, Peter - HUONG, N.T. - ŠKORVÁNEK, Ivan** - PHAN, M.H.**. Impact of the transverse magnetocrystalline anisotropy of a Co coating layer on the magnetoimpedance response of FeNi-rich nanocrystalline ribbon. In *Journal of Alloys and Compounds*, 2018, vol. 741, p. 1105-1111. (2017: 3.779 - IF, Q1 - JCR, 1.020 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2018.01.206>

Citácie:

1. [1.1] LI, M. Q. - LIU, J. - SUN, X. T. - LI, X. - XIE, W. H. - ZHAO, Z. J. GMI enhancement of FINEMET/Fe₂₀Ni₈₀ 20 Ni 80 composite ribbons via post heat treatment. In *COMPOSITES COMMUNICATIONS*, 2024, vol. 50, no., art. no. 102000. ISSN 2452-2139. Dostupné na:

<https://doi.org/10.1016/j.coco.2024.102000>, Registrované v: WOS

2. [1.1] YANG, Xiuwei - WANG, Dao - CHEN, Tao - LI, Yizhang - WANG, Zhongmin - YANG, Zhen - GUO, Yongbin - ZHAO, Zhenjie. Magnetic interactions and magnetoimpedance effect in FINEMET/SiO₂/FePt composite ribbons. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*, 2024, vol. 35, no. 3, art. no. 199. ISSN 0957-4522. Dostupné na:

<https://doi.org/10.1007/s10854-023-11920-7>, Registrované v: WOS

3. [1.2] XUE, Songjian - ZHU, Qianke - CHEN, Zhe - KANG, Shujie - ZHANG, Kewei. The effect of Al doping on the preparation and soft magnetic properties of Fe based amorphous nanocrystalline alloys. In *Gongneng Cailiao Journal of Functional Materials*, 2024-08-30, 55, 8, pp. 8155-8161. ISSN 10019731. Dostupné na: <https://doi.org/10.3969/j.issn.1001-9731.2024.08.021>, Registrované v: SCOPUS

ADCA213 ELIÁŠOVÁ SOHOVÁ, Marianna - BODIK, Michal - ŠIFFALOVÍČ, Peter** -

BUGÁROVÁ, Nikola - LABUDOVÁ, Martina - ZAŤOVIČOVÁ, Miriam - HIANIK, Tibor - OMASTOVÁ, Mária - MAJKOVÁ, Eva - JERGEL, Matej - PASTOREKOVÁ, Silvia. Label-free tracking of nanosized graphene oxide cellular uptake by confocal Raman microscopy. In *Analyst*, 2018, vol. 143, no. 15, p. 3686-3692. (2017: 3.864 - IF, Q1 - JCR, 1.249 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0003-2654. Dostupné na: <https://doi.org/10.1039/c8an00225h>

Citácie:

1. [1.1] DE SOUSA, Beatriz Pinto - FATEIXA, Sara - TRINDADE, Tito. *Surface-Enhanced Raman Scattering Using 2D Materials*. In *CHEMISTRY-A EUROPEAN JOURNAL*, 2024, vol. 30, no. 31. ISSN 0947-6539. Dostupné na: <https://doi.org/10.1002/chem.202303658>, Registrované v: WOS

ADCA214 ELSEVIERS, J. - ANDREYEV, A.N. - ANTALIC, S. - BARZAKH, A. - BREE, N. - COCOLIOS, T.E. - COMAS, V.F. - DIRIKEN, J. - FEDOROV, D. - FEDOSSEYEV, V.N. - FRANCHOO, S. - HEREDIA, J.A. - HUYSE, M. - IVANOV, O. - KOSTER, U. - MARSH, B.A. - PAGE, R.D. - PATRONIS, N. - SELIVERSTOV, M. - TSEKHANOVICH, I. - VAN DEN BERGH, P. - VAN DEWALLE, J. - VAN DUPPEN, P. - VENHART, Martin - VERMOTE, S. - VESELSKÝ, Martin - WAGEMANS, C. Shape coexistence in Hg-180 studied through the beta decay of Tl-180. In *Physical Review C*, 2011, vol. 84, no. 3, art. no. 034307. (2010: 3.416 - IF, 2.409 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.84.034307>

Citácie:

1. [1.2] MIŠT, J. *EVALUATION OF β -DECAY FEEDING INTENSITY IN ^{182}Au EC/ β^+ DECAY*. In *Acta Physica Polonica B Proceedings Supplement*, 2024-01-01, 17, 3, pp. ISSN 18992358. Dostupné na:

<https://doi.org/10.5506/APhysPolBSupp.17.3-A8>, Registrované v: SCOPUS

2. [1.2] MIŠT, J. *STUDY OF ISOTOPES USING THE β - γ MEASUREMENTS*. In *Proceedings 27th Conference of Slovak Physicists*, 2024-01-01, pp. 29-30. ISBN [9788089855261]., Registrované v: SCOPUS

3. [1.2] PRASSA, V. - KARAKATSANIS, K. E. Covariant density functional description of shape phase transitions and shape coexistence in heavy nuclei. In *Hnps Advances in Nuclear Physics*, 2024-01-01, 30, pp. 75-84. ISSN 2654007X. Dostupné na: <https://doi.org/10.12681/hnpsanp.6284>, Registrované v: SCOPUS

ADCA215 ELSEVIERS, J. - ANDREYEV, A.N. - HUYSE, M. - VAN DUPPEN, P. - ANTALIC, S. - BARZAKH, A. - BREE, N. - COCOLIOS, T.E. - COMAS, V.F. - DIRIKEN, J. - FEDOROV, D. - FEDOSSEEV, V.N. - FRANCHOO, S. - GHYS, L. - HEREDIA, J.A. - IVANOV, O. - KOESTER, U. - MARSH, B.A. - NISHIO, K. - PAGE, R.D. - PATRONIS, N. - SELIVERSTOV, M.D. - TSEKHANOVICH, I. - VAN DER BERGH, P. - VAN DE WALLE, J. - VENHART, Martin - VERMOTE, S. - VESELSKÝ, Martin - WAGEMANS, C. β -delayed fission of ^{180}Tl . In *Physical Review C*, 2013, vol. 88, no. 4, art. no. 044321. (2012: 3.715 - IF, 2.769 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.88.044321>

Citácie:

1. [1.1] ANDEL, B. *β -delayed fission studies at ISOLDE-CERN*. In *INTERNATIONAL CONFERENCE ON HEAVY-ION COLLISIONS AT NEAR-BARRIER ENERGIES, FUSION 2023 : 8th International Conference on Heavy-Ion Collisions at Near-Barrier Energies (FUSION)*, 2024, vol. 306, no., art. no. 01025. ISSN 2100-014X. Dostupné na:

<https://doi.org/10.1051/epjconf/202430601025>, Registrované v: WOS

2. [1.1] BERNARD, Remi N. - SIMENEL, Cedric - BLANCHON, Guillaume -

LAU, Ngee-Wein T. - MCGLYNN, Patrick. Fission of SUP180/SUPHg and SUP264/SUPFm: a comparative study. In EUROPEAN PHYSICAL JOURNAL A, 2024, vol. 60, no. 9, art. no. 192. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01415-2>, Registrované v: WOS

3. [1.2] HUO, Dong Ying - WEI, Zheng - WU, Kang - JIANG, Qiao Yue - HAN, Chao - YAO, Ze En - ZHANG, Yu - WANG, Jun Run. Influence of octupole deformed shell structure on the asymmetric fission of mercury isotopes. In European Physical Journal A, 2024-12-01, 60, 12, pp. ISSN 14346001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01456-7>, Registrované v: SCOPUS

4. [1.2] VARDACI, E. - DI NITTO, A. - BANERJEE, T. - PULCINI, A. - SETARO, P. A. - ALIFANO, G. - LA RANA, G. - CARJAN, N. - CICCHELLA, A. - SPINOSA, S. - KOZULIN, E. M. - TRZASKA, W. H. - ITKIS, I. M. - KNYAZHEVA, G. N. - KUMAR, D. - NOVIKOV, K. V. - VOROBIEV, I. V. - KHLEBNIKOV, S. V. - CHERALU, M. - KOZULINA, N. I. - PCHELINTSEV, I. V. - BORCEA, C. - CALINESCU, S. - FILIPESCU, D. M. - HARCA, I. M. - PETRONE, C. The role of Fission in the search of the Super Heavy Land: fission modes in heavy and superheavy nuclei. Case study of 180Hg. In EPJ Web of Conferences, 2024-10-08, 304, pp. ISSN 21016275. Dostupné na: <https://doi.org/10.1051/epjconf/202430401003>, Registrované v: SCOPUS

ADCA216 ERDOGAN, Nursev - BOUZIANI, Asmae - PARK, Jongee** - MIČUŠÍK, Matej - KIM, Soo Young - MAJKOVÁ, Eva - OMASTOVÁ, Mária - OZTURK, Abdullah. Synthesis and enhanced photocatalytic activity of nitrogen-doped triphasic TiO₂ nanoparticles. In Journal of Photochemistry and Photobiology. A: Polymer chemistry, 2019, vol. 377, p. 92-100. (2018: 3.261 - IF, Q2 - JCR, 0.657 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1010-6030. Dostupné na: <https://doi.org/10.1016/j.jphotochem.2019.03.047>

Citácie:

1. [1.1] RIBEIRO, Aline - RODEMBUSCH, Fabiano Severo - WERMUTH, Tiago Bender - MONTEDO, Oscar Rubem Klegues - MORENO, Rodrigo - VENTURINI, Janio - ARCARO, Sabrina. Nitrogen assisted one-step hydrothermal synthesis of commercial TiO₂ for methylene blue degradation under visible light irradiation. In CERAMICS INTERNATIONAL, 2024, vol. 50, no. 18, pp. 34240-34250. ISSN 0272-8842. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.06.243>, Registrované v: WOS

2. [1.1] YIHUNIE, Moges Tsega. Enhanced photoluminescence and structural properties of Zn-doped anatase TiO₂ nanoparticles. In MATERIALS RESEARCH EXPRESS, 2024, vol. 11, no. 7, art. no. 075007. Dostupné na: <https://doi.org/10.1088/2053-1591/ad59ee>, Registrované v: WOS

ADCA217 EUCHNER, H. - YAMADA, T. - ROLS, S. - ISHIMASA, T. - KANEKO, Y. - OLLIVIER, J. - SCHÖBER, H. - MIHALKOVIČ, Marek - DE BOISSIEU, M. Tetrahedron dynamics in the icosahedral quasicrystals i-ZnMgSc and i-ZnAgSc and the cubic 1/1-approximant Zn6Sc. In Journal of Physics: Condensed Matter, 2013, vol. 25, no. 11, art. no. 115405. (2012: 2.355 - IF, Q2 - JCR, 1.688 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/0953-8984/25/11/115405>

Citácie:

1. [1.1] COATES, Sam - BURNIE, Dominic - SHARMA, Hem Raj - MCGRATH, Ronan. Scanning Tunnelling Microscopy Studies of Tsai-Type Quasicrystal Approximants. In ISRAEL JOURNAL OF CHEMISTRY, 2024, vol. 64, no. 10-11. ISSN 0021-2148. Dostupné na: <https://doi.org/10.1002/ijch.202300116>, Registrované v: WOS

ADCA218 EUCHNER, H. - MIHALKOVIČ, Marek - GAHLER, F. - JOHNSON, M.R. -

SCHOBER, H. - ROLS, S. - SUARD, E. - BOSAK, A. - OHHASHI, S. - TSAI, A.P. - LIDIN, S. - GOMEZ, C.P. - CUSTERS, J. - PASCHEN, S. - DE BOISSIEU, M. Anomalous vibrational dynamics in the Mg₂Zn₁₁ phase. In *Physical Review B*, 2011, vol. 83, no. 14, art. no. 144202. (2010: 3.774 - IF, Q1 - JCR, 3.318 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevC.84.034307>

Citácie:

1. [1.1] FREDRICKSON, Rie T. - FREDRICKSON, Daniel C. *Interface Nuclei in the Y-Ag-Zn System: Three Chemical Pressure-Templated Phases with Lamellar Mg₂Zn₁₁- and CaPd_{5+x}-Type Domains*. In *INORGANIC CHEMISTRY*, 2024, vol. 63, no. 20, pp. 9252-9264. ISSN 0020-1669. Dostupné na:

<https://doi.org/10.1021/acs.inorgchem.4c00966>, Registrované v: WOS

ADCA219

FABER, M. - GREENSITE, J. - OLEJNÍK, Štefan - YAMADA, D. The vortex-finding property of maximal center (and other) gauges. In *Journal of High Energy Physics*, 1999, vol., no. 12, art. no. 012. ISSN 1029-8479. Dostupné na: <https://doi.org/10.1088/1126-6708/1999/12/012>

Citácie:

1. [1.1] KAMLEH, Waseem - LEINWEBER, Derek B. - VIRGILI, Adam. Numerical indication that center vortices drive dynamical mass generation in QCD. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 5, art. no. L051502. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.L051502>, Registrované v: WOS

2. [1.1] MICKLEY, Jackson A. - KAMLEH, Waseem - LEINWEBER, Derek B. Center vortex geometry at finite temperature. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 3, art. no. 034516. ISSN 2470-0010. Dostupné na:

<https://doi.org/10.1103/PhysRevD.110.034516>, Registrované v: WOS

ADCA220

FABER, M. - GREENSITE, J. - OLEJNÍK, Štefan. Casimir scaling from center vortices: Towards an understanding of the adjoint string tension. In *Physical Review D*, 1998, vol. 57, no. 4, p. 2603-2609. (1997: 3.420 - IF, karentované - CCC). (1998 - Current Contents, WOS, SCOPUS). ISSN 1550-7998.

Citácie:

1. [1.1] HAYASHI, Yui - TANIZAKI, Yuya - WATANABE, Hiromasa. Non-supersymmetric duality cascade of QCD(BF) via semiclassics on RSUP2/SUP_x TSUP2/SUP with the baryon-'t Hooft flux. In *JOURNAL OF HIGH ENERGY PHYSICS*, 2024, vol., no. 7, art. no. 33. ISSN 1029-8479. Dostupné na:

[https://doi.org/10.1007/JHEP07\(2024\)033](https://doi.org/10.1007/JHEP07(2024)033), Registrované v: WOS

2. [1.1] HAYASHI, Yui - TANIZAKI, Yuya. Semiclassics for the QCD vacuum structure through TSUP2/SUP-compactification with the baryon-'t Hooft flux. In *JOURNAL OF HIGH ENERGY PHYSICS*, 2024, vol., no. 8, art. no. 1. ISSN 1029-8479. Dostupné na: [https://doi.org/10.1007/JHEP08\(2024\)001](https://doi.org/10.1007/JHEP08(2024)001), Registrované v: WOS

3. [1.1] KAMLEH, Waseem - LEINWEBER, Derek B. - VIRGILI, Adam. Numerical indication that center vortices drive dynamical mass generation in QCD. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 5, art. no. L051502. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.L051502>, Registrované v: WOS

4. [1.1] MICKLEY, Jackson A. - KAMLEH, Waseem - LEINWEBER, Derek B. Center vortex geometry at finite temperature. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 3, art. no. 034516. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.034516>, Registrované v: WOS

5. [1.1] NEJAD, Seyed Mohsen Hosseini. Influence of center vortex interactions on the static potentials. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 11, art. no.

114504. ISSN 2470-0010. Dostupné na:

<https://doi.org/10.1103/PhysRevD.110.114504>, Registrované v: WOS

- ADCA221 FABER, Manfred - GREENSITE, Jeff - OLEJNÍK, Štefan. First evidence for center dominance in SU(3) lattice gauge theory. In Physics Letters B, 2000, vol. 474, no. 1-2, p. 177-181. (1999: 3.878 - IF, karentované - CCC). (2000 - Current Contents, WOS, SCOPUS). ISSN 0370-2693. Dostupné na: [https://doi.org/10.1016/S0370-2693\(00\)00013-7](https://doi.org/10.1016/S0370-2693(00)00013-7)

Citácie:

1. [1.1] KAMLEH, Waseem - LEINWEBER, Derek B. - VIRGILI, Adam.

Numerical indication that center vortices drive dynamical mass generation in QCD. In PHYSICAL REVIEW D, 2024, vol. 110, no. 5, art. no. L051502. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.L051502>, Registrované v: WOS

2. [1.1] MICKLEY, Jackson A. - KAMLEH, Waseem - LEINWEBER, Derek B. Center vortex geometry at finite temperature. In PHYSICAL REVIEW D, 2024, vol. 110, no. 3, art. no. 034516. ISSN 2470-0010. Dostupné na:

<https://doi.org/10.1103/PhysRevD.110.034516>, Registrované v: WOS

- ADCA222 FARHI, E. - GOSSET, D. - HASSIDIM, A. - LUTOMIRSKI, A. - NAGAJ, Daniel - SHOR, P. Quantum state restoration and single-copy tomography for ground states of Hamiltonians. In Physical Review Letters, 2010, vol. 105, no. 19, art. no. 190503. (2009: 7.328 - IF, 6.325 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.105.190503>

Citácie:

1. [1.1] BROADBENT, Anne - KAZMI, Raza Ali - MINWALLA, Cyrus. A Quantum Vault Scheme for Digital Currency. In 2024 IEEE INTERNATIONAL CONFERENCE ON QUANTUM COMPUTING AND ENGINEERING, QCE, VOL 1 : 2024 International Conference on Quantum Computing and Engineering, 2024, vol., no., pp. 239-249. Dostupné na:

<https://doi.org/10.1109/QCE60285.2024.00037>, Registrované v: WOS

- ADCA223 FERIANCOVÁ, Lucia - CIGÁŇ, Marek - GMUCOVÁ, Katarína - KOŽÍŠEK, Jozef - NÁDAŽDY, Vojtech - PUTALA, Martin**. Effect of electron-withdrawing groups on molecular properties of naphthyl and anthryl bithiophenes as potential n-type semiconductors. In New Journal of Chemistry, 2021, vol. 45, no. 22, p. 9794-9804. (2020: 3.591 - IF, Q2 - JCR, 0.693 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1144-0546. Dostupné na: <https://doi.org/10.1039/d1nj01100f>

Citácie:

1. [1.1] ALMARAZ-GIRON, Marco A. - AGUILAR-LUGO, Carla - VAZQUEZ-HERNANDEZ, Giovanna Angelica - FOMINE, Sergei - SALCEDO, Roberto - ALEXANDROVA, Larissa - FOMINA, Lioudmila. Synthesis of 1,2,5-substituted pyrrole derivatives by a modification of the Reisch-Schulte reaction. In JOURNAL OF MOLECULAR STRUCTURE, 2024, vol. 1300, no., art. no. 137232. ISSN 0022-2860. Dostupné na: <https://doi.org/10.1016/j.molstruc.2023.137232>, Registrované v: WOS

2. [1.1] BEJ, Sourav - DAS, Riyanka - PAL, Rajeshwari - BANERJEE, Priyabrata. Conjoining the benefits of an additional phenyl ring in a simple benzophenone hydrazone-based platform @ discriminatory recognition of F⁻ over CN⁻ with quantitation of aqueous Cu²⁺: 2⁺: New tricks for an old dog. In JOURNAL OF MOLECULAR LIQUIDS, 2024, vol. 411, no., art. no. 125781. ISSN 0167-7322. Dostupné na: <https://doi.org/10.1016/j.molliq.2024.125781>, Registrované v: WOS

3. [1.1] NEGHABI, Sevdá - GHADARI, Rahim. The optoelectronic properties of acetylene based compounds as hole transporter in perovskite solar cells: A computational study. In SOLAR ENERGY, 2024, vol. 276, no., art. no. 112701. ISSN 0038-092X. Dostupné na: <https://doi.org/10.1016/j.solener.2024.112701>, Registrované v: WOS

4. [1.1] NISHIBORI, Suzuka - HARA, Nobuyuki - TAMIYAKI, Hitoshi. Effect of perfluorination at the 3-ethyl group in chlorophyll-a derivatives on physical properties in solution. In JOURNAL OF FLUORINE CHEMISTRY, 2024, vol. 274, no., art. no. 110261. ISSN 0022-1139. Dostupné na:

<https://doi.org/10.1016/j.jfluchem.2024.110261>, Registrované v: WOS

ADCA224 FERIANCOVÁ, Lucia - CIGÁŇ, Marek - KOŽÍŠEK, Jozef - GMUCOVÁ, Katarína - NÁDAŽDY, Vojtech - DUBAJ, Tibor - SOBOTA, Michal - NOVOTA, Miroslav - WEIS, Martin - PUTALA, Martin**. Dithienylnaphthalenes and quaterthiophenes substituted with electron-withdrawing groups as n-type organic semiconductors for organic field-effect transistors. In Journal of Materials Chemistry C, 2022, vol. 10, no. 27, p. 10058-10074. (2021: 8.067 - IF, Q1 - JCR, 1.608 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2050-7526. Dostupné na: <https://doi.org/10.1039/d2tc01238c>

Citácie:

1. [1.1] AKIYAMA, Midori - YASUDA, Yuka - KISOI, Daiki - KUSAKABE, Yu - KAJI, Hironori - IMAHORI, Hiroshi. The Perfluoroadamantyl group: a bulky and highly electron-withdrawing substituent in thermally activated delayed fluorescence materials. In BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN, 2024, vol. 97, no. 3, art. no. uoae025. ISSN 0009-2673. Dostupné na:

<https://doi.org/10.1093/bulcsj/uoae025>, Registrované v: WOS

ADCA225 FERRARA, E. - STANTERO, A. - TIBERTO, P. - BARICCO, M. - JANIČKOVIČ, Dušan - KUBIČÁR, Ľudovít - DUHAJ, Pavol. Magnetic properties and surface roughness of Fe₆₄Co₂₁B₁₅ amorphous ribbons quenched from different melt temperatures. In Materials Science and Engineering A, 1997, vol. 226, p. 326-330. (1996: 0.852 - IF, karentované - CCC). (1997 - Current Contents, WOS, SCOPUS). ISSN 0921-5093.

Citácie:

1. [1.1] ZHANG, Shuyan - MA, Danyue - LIANG, Xiubing - CHEN, Changjiu. Influence of Al addition on the microstructure and properties of Fe₂₅Co₂₅Ni₂₅(Si_{0.3}B_{0.7})₂₅ high entropy metallic glass. In INTERMETALLICS, 2024, vol. 169, no., art. no. 108304. ISSN 0966-9795. Dostupné na:

<https://doi.org/10.1016/j.intermet.2024.108304>, Registrované v: WOS

ADCA226 FEUERBACHER, M. - THOMAS, C. - MAKONGO, J.P.A. - HOFFMANN, S. - CARRILLO-CABRERA, W. - CARDOSO, R. - GRIN, Y. - KREINER, G. - JOUBERT, J.M. - SCHENK, T. - GASTALDI, J. - NGUYEN-THI, H. - MANGELINCK-NOEL, N. - BILLIA, B. - DONNADIEU, P. - CZYRSKA-FILEMONOWICZ, A. - ZIELINSKA-LIPIEC, A. - DUBIEL, B. - WEBER, T. - SCHAUB, P. - KRAUSS, G. - GRAMLICH, V. - CHRISTENSEN, J. - LLIDIN, S. - FREDERICKSON, D. - MIHALKOVIČ, Marek - SIKORA, W. - MALINOWSKI, J. - BRUHNE, S. - PROFFEN, T. - ASSMUS, W. - DE BOISSIEU, M. - BLEY, F. The samson phase, beta-Mg₂Al₃, revisited. In Zeitschrift für Kristallographie, 2007, vol. 222, no. 6, p. 259-288. (2006: 1.897 - IF, Q2 - JCR, 0.948 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0044-2968. Dostupné na: <https://doi.org/10.1524/zkri.2007.222.6.259>

Citácie:

1. [1.1] LI, Qingqing - JIANG, Wenming - XU, Yuancai - YU, Linghui - NIU, Yanqing - FAN, Zitian. Development of prominent bonding strength in Al/Mg

bimetal composites prepared by ultrasonic vibration-assisted compound casting: Effects of ultrasonic powers. In *JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY*, 2024, vol. 197, no., pp. 78-93. ISSN 1005-0302. Dostupné na: <https://doi.org/10.1016/j.jmst.2024.03.004>, Registrované v: WOS

2. [1.1] LI, Qingqing - XU, Yuancai - NIU, Yanqing - FAN, Zitian - YU, Linghui - JIANG, Wenming. Development of Al/Mg bimetal prepared by ultrasonic vibration-assisted compound casting: Effects of interface treatment temperatures. In *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING*, 2024, vol. 890, no., art. no. 145911. ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2023.145911>, Registrované v: WOS

3. [1.2] FREDRICKSON, Rie T. - FREDRICKSON, Daniel C. Chemical Torque in Y14Ag39.3Zn12.1: Unwinding the Disordered Triangles of the Gd14Ag51 Type. In *Chemistry of Materials*, 2024-12-24, 36, 24, pp. 11966-11975. ISSN 08974756. Dostupné na: <https://doi.org/10.1021/acs.chemmater.4c02599>, Registrované v: SCOPUS

4. [1.2] SANDERS, Kyana M. - GRESSEL, Danica G. - FREDRICKSON, Rie T. - FREDRICKSON, Daniel C. Toward Predicting the Assembly of Modular Intermetallics from Chemical Pressure Analysis: The Interface Nucleus Approach. In *Inorganic Chemistry*, 2024-04-15, 63, 15, pp. 6626-6637. ISSN 00201669. Dostupné na: <https://doi.org/10.1021/acs.inorgchem.3c04390>, Registrované v: SCOPUS

5. [1.2] VAN BUSKIRK, Jonathan S. - PETERSON, Gordon G.C. - FREDRICKSON, Daniel C. Machine Learning-Based Investigation of Atomic Packing Effects: Chemical Pressures at the Extremes of Intermetallic Complexity. In *Journal of the American Chemical Society*, 2024-01-01, vol. 146, no. 41, pp. ISSN 00027863. Dostupné na: <https://doi.org/10.1021/jacs.4c10479>, Registrované v: SCOPUS

ADCA227 FILIP, Peter. Elliptic flow in central collisions of deformed nuclei. In *Physics of Atomic Nuclei*, 2008, vol. 71, no. 9, p. 1609-1618. (2007: 0.515 - IF, Q4 - JCR, 0.358 - SJR, Q3 - SJR). ISSN 1063-7788. Dostupné na: <https://doi.org/10.1134/S1063778808090172>

Citácie:

1. [1.1] MAGDY, Niseem. Characterizing the initial- and final-state effects in isobaric collisions at energies available at the BNL Relativistic Heavy Ion Collider. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 2, art. no. 024906. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.024906>, Registrované v: WOS

ADCA228 FILIP, Peter - LEDNICKY, R. - MASUI, H. - XU, N. Initial eccentricity in deformed Au-197+Au-197 and U-238+U-238 collisions at s(NN)=200 GeV at the BNL Relativistic Heavy Ion Collider. In *Physical Review C*, 2009, vol. 80, no. 5, art. no. 054903. (2008: 3.124 - IF, 2.417 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.80.054903>

Citácie:

1. [1.1] ABDULHAMID, M. I. - ABOONA, B. E. - ADAM, J. - ADAMS, J. R. - AGAKISHIEV, G. - AGGARWAL, I. - AGGARWAL, M. M. - AHAMMED, Z. - AITBAEV, A. - ALEKSEEV, I. - ALPATOV, E. - APARIN, A. - ASLAM, S. - ATCHISON, J. - AVERICHEV, G. S. - BAIRATHI, V. - CAP, J. G. Ball - BARISH, K. - BHAGAT, P. - BHASIN, A. - BHATTA, S. - BHOSALE, S. R. - BORDYUZHN, I. G. - BRANDENBURG, J. D. - BRANDIN, A. V. - BROODO, C. - CAI, X. Z. - CAINES, H. - SANCHEZ, M. Calderon de la Barca - CEBRA, D. - CESKA, J. -

CHAKABERIA, I. - CHAN, B. K. - CHANG, Z. - CHATTERJEE, A. - CHEN, D. - CHEN, J. - CHEN, J. H. - CHEN, Z. - CHENG, J. - CHENG, Y. - CHRISTIE, W. - CHU, X. - CRAWFORD, H. J. - CSANAD, M. - DALE-GAU, G. - DAS, A. - DEDOVICH, T. G. - DEPPNER, I. M. - DEREVSCHIKOV, A. A. Imaging shapes of atomic nuclei in high-energy nuclear collisions. In *NATURE*, 2024, vol. 635, no. 8037, pp. 67-+. ISSN 0028-0836. Dostupné na:

<https://doi.org/10.1038/s41586-024-08097-2>, Registrované v: WOS

2. [1.1] LIU, Lu-Meng - LI, Song-Jie - WANG, Zhen - XU, Jun - REN, Zhong-Zhou - HUANG, Xu-Guang. Probing configuration of α clusters with spectator particles in relativistic heavy-ion collisions. In *PHYSICS LETTERS B*, 2024, vol. 854, no., art. no. 138724. ISSN 0370-2693. Dostupné na:

<https://doi.org/10.1016/j.physletb.2024.138724>, Registrované v: WOS

3. [1.1] MANTYSAARI, Heikki - SALAZAR, Farid - SCHENKE, Bjorn - SHEN, Chun - ZHAO, Wenbin. Effects of nuclear structure and quantum interference on diffractive vector meson production in ultraperipheral nuclear collisions. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 2, art. no. 024908. ISSN 2469-9985.

Dostupné na: <https://doi.org/10.1103/PhysRevC.109.024908>, Registrované v: WOS

4. [1.1] WANG, Hai-Cheng - LI, Song-Jie - LIU, Lu-Meng - XU, Jun - REN, Zhong-Zhou. Deformation probes for light nuclei in their collisions at relativistic energies. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 3, art. no. 034909. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.034909>,

Registrované v: WOS

ADCA229 FILIPPOV, S.N. - ZIMAN, Mário. Bipartite entanglement-annihilating maps: necessary and sufficient conditions. In *Physical Review A*, 2013, vol. 88, no. 3, art. no. 032316. (2012: 3.042 - IF, Q1 - JCR, 2.519 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.88.032316>

Citácie:

1. [1.1] GONZALES, Alvin - DILLEY, Daniel - BYRD, Mark. Some entanglement survives most measurements. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 2, art. no. 022233. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.109.022233>, Registrované v: WOS

ADCA230 FILIPPOV, S.N. - RYBÁŘ, Tomáš - ZIMAN, Mário. Local two-qubit entanglement-annihilating channels. In *Physical Review A*, 2012, vol. 85, no. 1, art. no. 012303. (2011: 2.878 - IF, Q1 - JCR, 2.316 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.85.012303>

Citácie:

1. [1.1] GONZALES, Alvin - DILLEY, Daniel - BYRD, Mark. Some entanglement survives most measurements. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 2, art. no. 022233. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.109.022233>, Registrované v: WOS

ADCA231 FILIPPOV, S.N. - ZIMAN, Mário. Entanglement sensitivity to signal attenuation and amplification. In *Physical Review A*, 2014, vol. 90, no. 1, art. no. 010301. (2013: 2.991 - IF, Q1 - JCR, 2.317 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.90.010301>

Citácie:

1. [1.1] BARRAL, David - ISOARD, Mathieu - SORELLI, Giacomo - GESSNER, Manuel - TREPS, Nicolas - WALSCHAERS, Mattia. Metrological detection of entanglement generated by non-Gaussian operations. In *NEW JOURNAL OF*

- ADCA232 *PHYSICS*, 2024, vol. 26, no. 8, art. no. 083012. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad6475>, Registrované v: WOS
- FILIPPOV, S.N. - PILO, J. - MANISCALCO, S. - ZIMAN, Mário. Divisibility of quantum dynamical maps and collision models. In *Physical Review A*, 2017, vol. 96, no. 3, art. no. 032111. (2016: 2.925 - IF, Q1 - JCR, 1.482 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.96.032111>
- Citácie:
- [1.1] ABU-NADA, Ali - BANERJEE, Subhashish - SABALE, Vivek Balasaheb. Exploring the non-Markovian dynamics in depolarizing maps. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 5, art. no. 052209. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.052209>, Registrované v: WOS
 - [1.1] BAECKER, Charlotte - BEYER, Konstantin - STRUNZ, Walter T. Local Disclosure of Quantum Memory in Non-Markovian Dynamics. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 6, art. no. 060402. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.060402>, Registrované v: WOS
 - [1.1] GUMEROV, R. N. - KHAZHIN, R. L. Generating quantum dynamical mappings. In *THEORETICAL AND MATHEMATICAL PHYSICS*, 2024, vol. 221, no. 3, pp. 2177-2192. ISSN 0040-5779. Dostupné na: <https://doi.org/10.1134/S0040577924120122>, Registrované v: WOS
 - [1.1] SAHA, Tanmay - DAS, Arpan - GHOSH, Sibasish. Quantum homogenization in non-Markovian collisional model. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 2, art. no. 023011. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad212f>, Registrované v: WOS
- ADCA233 FILIPPOV, S.N. - MELNIKOV, A.A. - ZIMAN, Mário. Dissociation and annihilation of multipartite entanglement structure in dissipative quantum dynamics. In *Physical Review A*, 2013, vol. 88, no. 6, art. no. 062328. (2012: 3.042 - IF, Q1 - JCR, 2.519 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.88.062328>
- Citácie:
- [1.1] ALI, Mazhar. Genuine entanglement under squeezed generalized amplitude damping channels with memory. In *CHINESE PHYSICS B*, 2024, vol. 33, no. 2, art. no. 020307. ISSN 1674-1056. Dostupné na: <https://doi.org/10.1088/1674-1056/ace15f>, Registrované v: WOS
 - [1.1] SERRANO-ENSASTIGA, Eduardo - DENIS, Jerome - MARTIN, John. Absolute-separability witnesses for symmetric multiqubit states. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 2, art. no. 022430. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.022430>, Registrované v: WOS
- ADCA234 FILO, J. - MIŠICÁK - CIGÁŇ, Marek - WEIS, Martin - JAKABOVIČ, J. - GMUCOVÁ, Katarína - PAVUK, M. - DOBROČKA, Edmund - PUTALA, Martin. Oligothiophenes with the naphthalene core for organic thin-film transistors: variation in positions of bithiophenyl attachment to the naphthalene. In *Synthetic Metals*, 2015, vol. 202, p. 73-81. (2014: 2.252 - IF, Q2 - JCR, 0.709 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0379-6779. Dostupné na: <https://doi.org/10.1016/j.synthmet.2015.01.020>
- Citácie:
- [1.1] CAMARADA, Maria B. - ANGEL, Felipe A. - JESSOP, Ignacio A. Computational prediction of the properties of bis(ethynylthienyl)dialcynaphthalene-based conjugated polymers for organic solar cell applications. In *INTERNATIONAL JOURNAL OF QUANTUM*

CHEMISTRY, 2024, vol. 124, no. 1, art. no. e27283. ISSN 0020-7608. Dostupné na: <https://doi.org/10.1002/qua.27283>, Registrované v: WOS

- ADCA235 FLAVIGNY, F. - PAUWELS, D. - RADULOV, D. - DARBY, I.J. - DE WITTE, H. - DIRIKEN, J. - FEDOROV, D.V. - FEDOSSEEV, V.N. - FRAILE, L.M. - HUYSE, M. - IVANOV, V.S. - KOSTER, U. - MARSH, B.A. - OTSUKA, T. - POPESCU, L. - RAABE, R. - SELIVERSTOV, M.D. - SHIMIZU, N. - SJODIN, M. - TSUNODA, Y. - VAN DEN BERGH, P. - VAN DUPPEN, P. - VAN DE WALLE, J. - VENHART, Martin - WALTERS, W.B. - WIMMER, K. Characterization of the low-lying 0(+) and 2(+) states in Ni-68 via beta decay of the low-spin Co-68 isomer. In *Physical Review C. Nuclear physics*, 2015, vol. 91, no. 3, art. no. 034310. (2014: 3.733 - IF, Q1 - JCR, 2.480 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.91.034310>

Citácie:

1. [1.2] BENITO, J. - LENZI, S. M. - RECCHIA, F. - AXIOTIS, M. - AYDIN, S. - BAZZACCO, D. - BENZONI, G. - BIZZETI, P. G. - BIZZETI-SONA, A. M. - BRACCO, A. - BRODA, R. - BUCURESCU, D. - CAURIER, E. - CORRADI, L. - DE ANGELIS, G. - DELLA VEDOVA, F. - FARNEA, E. - FORMAL, B. - FIORETTO, E. - GADEA, A. - GOTTARDO, A. - IONESCU-BUJOR, M. - IORDACHESCU, A. - LEONI, S. - LUNARDI, S. - MĂRGINEAN, N. - MĂRGINEAN, R. - MASON, P. - MENEGAZZO, R. - MENGONI, D. - MILLION, B. - MONTAGNOLI, G. - NAPOLI, D. R. - NOWACKI, F. - ORLANDI, R. - POLLAROLO, G. - POTES, A. - SAHIN, E. - SCARLASSARA, F. - SINGH, R. P. - STEFANINI, A. M. - SZILNER, S. - UR, C. A. - VALIENTE-DOBÓN, J. J. - WIELAND, O. *SPECTROSCOPY OF NEUTRON-RICH Fe ISOTOPES POPULATED IN THE 70Zn+238U REACTION*. In *Acta Physica Polonica B Proceedings Supplement*, 2024-01-01, 17, 3, pp. ISSN 18992358. Dostupné na: <https://doi.org/10.5506/APhysPolBSupp.17.3-A4>, Registrované v: SCOPUS

- ADCA236 FONG, D. - HAMILTON, J.H. - RAMAYYA, A.V. - HWANG, J.K. - GOODIN, C. - LI, K. - KORMICKI, J. - RASMUSSEN, J. - LUO, Y.X. - WU, S.C. - LEE, I.Y. - DANIEL, A.V. - TER-AKOPIAN, G.M. - POPEKO, G.S. - FOMICHEV, A.S. - RODIN, A.M. - OGANESSIAN, Yu.Ts. - JANDEL, M. - KLIMAN, Ján - KRUPA, L. - COLE, J.D. - STOYER, M.A. - DONANGELO, R. - MA, W.C. Bimodal fission in binary and ternary spontaneous fission of 252Cf. In *Physics of Atomic Nuclei*, 2006, vol. 69, no. 7, p. 1161-1167. (2005: 0.914 - IF, Q3 - JCR, 0.510 - SJR, Q2 - SJR). ISSN 1063-7788. Dostupné na: <https://doi.org/10.1134/S1063778806070118>

Citácie:

1. [1.1] PAHLAVANI, M. R. - BABI, M. Saeidi. Study of the SUP4/SUPHe, SUP10/SUPBe, SUP14/SUPC, SUP14/SUPN, and SUP16/SUPO accompanied ternary fission of SUP248/SUPCf isotope in the fragments equatorial geometry. In *CHINESE JOURNAL OF PHYSICS*, 2024, vol. 89, no., pp. 469-480. ISSN 0577-9073. Dostupné na: <https://doi.org/10.1016/j.cjph.2024.03.025>, Registrované v: WOS

- ADCA237 FOS, Alen** - ŠVEC, Peter - JANOTOVÁ, Irena - JANIČKOVIČ, Dušan - BUTVINOVÁ, Beata - BÚRAN, Marek - KYRITSI, Anna - KONSTANTINIDIS, Nikolaos - NOVÁK, Patrik. Effect of Cu and Co addition on non-isothermal crystallization kinetics of rapidly quenched Fe-Sn-B based alloys. In *Journal of Non-Crystalline Solids*, 2022, vol. 593, no. 12, art. no. 121785. (2021: 4.458 - IF, Q1 - JCR, 0.751 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0022-3093. Dostupné na: <https://doi.org/10.1016/j.jnoncrysol.2022.121785>

Citácie:

1. [1.1] GREY, D.G. - CESNEK, M. - BUJDOS, M. - MIGLIERINI, M.B. Effect of

Cobalt on the Microstructure of Fe-B-Sn Amorphous Metallic Alloys. In METALS. JUN 2024, vol. 14, no. 6, art. no. 712. Dostupné na:

<https://doi.org/10.3390/met14060712>, Registrované v: WOS

2. [1.1] GREY, Daniel G. - CESNEK, Martin - BUJDOS, Marek - MIGLIERINI, Marcel B. *Effect of Cobalt on the Microstructure of Fe-B-Sn Amorphous Metallic Alloys. In METALS, 2024, vol. 14, no. 6, art. no. 712. Dostupné na:*

<https://doi.org/10.3390/met14060712>, Registrované v: WOS

3. [1.1] LOPACHAK, M. - BOICHYSHYN, L. - PANDIAK, N. - NOSENKO, V. *Chapter 30 Iron and Chromium Influence on Crystallization Kinetics of Cobalt-Based Amorphous Alloys. In NANOMATERIALS AND NANOCOMPOSITES, NANOSTRUCTURES, AND THEIR APPLICATIONS, NANO-2023. ISSN 0930-8989, 2024, vol. 253, p. 443-452. Dostupné na: https://doi.org/10.1007/978-3-031-67519-5_30, Registrované v: WOS*

4. [1.1] LOPACHAK, Mariia - BOICHYSHYN, Lidiya - PANDIAK, Nataliya - NOSENKO, Viktor. *Chapter 30 Iron and Chromium Influence on Crystallization Kinetics of Cobalt-Based Amorphous Alloys. In NANOMATERIALS AND NANOCOMPOSITES, NANOSTRUCTURES, AND THEIR APPLICATIONS, NANO-2023, 2024, vol. 253, no., pp. 443-452. ISSN 0930-8989. Dostupné na: https://doi.org/10.1007/978-3-031-67519-5_30, Registrované v: WOS*

ADCA238 FOURNEE, V. - LEDIEU, J. - SHIMODA, M. - KRAJČÍ, Marián - SHARMA, H.-R. - MCGRATH, R. *Thin film growth on quasicrystalline surfaces. In Israel Journal of Chemistry, 2011, vol. 51, no. 11-12, p. 1314-1325. (2010: 0.794 - IF, Q3 - JCR, 0.417 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0021-2148. Dostupné na: <https://doi.org/10.1002/ijch.201100141>*

Citácie:

1. [1.1] MBAJOUN, Wilfried Bajoun - HUANG, Yu-Chin - GEBRESENBUT, Girma Hailu - GOMEZ, Cesar Pay - FOURNEE, Vincent - LEDIEU, Julian. *Surface Reactivity of the Au-Si-Ho Quasicrystalline 1/1 Approximant. In ISRAEL JOURNAL OF CHEMISTRY, 2024, vol. 64, no. 10-11. ISSN 0021-2148. Dostupné na: <https://doi.org/10.1002/ijch.202300118>, Registrované v: WOS*

2. [1.1] MBAJOUN, Wilfried Bajoun - HUANG, YuChin - GEBRESENBUT, Girma Hailu - GOMEZ, Cesar Pay - GAUDRY, Emilie - MIGOT-CHOUX, Sylvie - GHANBAJA, Jaafar - FOURNEE, Vincent - LEDIEU, Julian. *Structure and properties of the (100) surface of the Au-Si-Ho quasicrystalline approximant. In PHYSICAL REVIEW B, 2024, vol. 110, no. 4, art. no. 045402. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.045402>, Registrované v: WOS*

ADCA239 FRANCO, V. - CONDE, C.F. - BLAZQUEZ, J.S. - CONDE, A. - ŠVEC, Peter - JANIČKOVIČ, Dušan - KISS, L.F. *A constant magnetocaloric response in FeMoCuB amorphous alloys with different Fe/B ratios. In Journal of Applied Physics, 2007, vol. 101, no. 9, art. no. 093903. (2006: 2.316 - IF, Q1 - JCR, 1.944 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, SCOPUS). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/1.2724804>*

Citácie:

1. [1.1] PURWAR, Shubham - CHANGDAR, Susmita - GHOSH, Susanta - BHOWMIK, Tushar Kanti - THIRUPATHIAH, Setti. *Intricate magnetic interactions and topological Hall effect observed in itinerant room-temperature layered ferromagnet Cr_{0.83}Te. In ACTA MATERIALIA, 2024, vol. 271, no., art. no. 119898. ISSN 1359-6454. Dostupné na:*

<https://doi.org/10.1016/j.actamat.2024.119898>, Registrované v: WOS

2. [1.1] SAKTHIVEL, Swathi - ARUN, K. - REMYA, U. D. - ATHUL, S. R. - DZUBINSKA, Andrea - REIFFERS, Marian - NAGALAKSHMI, R. *Near-Room*

Temperature Magnetocaloric Effect and Critical Exponent Analysis in Mn_{4.8}Cu_{0.2}Ge₃ Compound. In JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, 2024, vol. 37, no. 5-7, pp. 1153-1161. ISSN 1557-1939. Dostupné na: <https://doi.org/10.1007/s10948-024-06714-9>, Registrované v: WOS 3. [1.2] CUGINI, F. - SOLZI, M. Magnetocaloric characterization of materials. In Handbook of Magnetic Materials, 2024-01-01, 33, pp. 29-119. ISBN [9780443297700]. ISSN 15672719. Dostupné na:

<https://doi.org/10.1016/bs.hmm.2024.08.001>, Registrované v: SCOPUS

ADCA240 FRANK, Tobias - DERIAN, René - TOKÁR, Kamil - MITAS, Luboš - FABIAN, Jaroslav** - ŠTICH, Ivan**. Many-body quantum Monte Carlo study of 2D materials: cohesion and band gap in single-layer phosphorene. In Physical Review X, 2019, vol. 9, no. 1, art. no. 011018. (2018: 12.211 - IF, Q1 - JCR, 6.497 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2160-3308. Dostupné na: <https://doi.org/10.1103/PhysRevX.9.011018>

Citácie:

1. [1.1] AGOURI, M. - BENADDI, A. - ELOMRANI, A. - KHOSSOSSI, N. - ABBASSI, A. - HASNAOUI, A. - MANAUT, B. - TAJ, S. - DRIOUICH, M. Empowering lithium-ion batteries: The potential of 2D o-Al₂N₂ as an exceptional anode material through DFT analysis. In JOURNAL OF ENERGY STORAGE. ISSN 2352-152X, JUL 30 2024, vol. 94. Dostupné na: <https://doi.org/10.1016/j.est.2024.112351>, Registrované v: WOS
2. [1.1] MILIVOJEVIC, M. - KURPAS, M. - RASSEKH, M. - LEGUT, D. - GMITRA, M. Hydrostatic pressure control of the spin-orbit proximity effect, spin relaxation, and thermoelectricity in a phosphorene-WSe₂ heterostructure. In PHYSICAL REVIEW B. ISSN 2469-9950, AUG 27 2024, vol. 110, no. 8. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.085306>, Registrované v: WOS
3. [1.1] NAKANO, K. - CASULA, M. - TENTI, G. Efficient calculation of unbiased atomic forces in ab initio variational Monte Carlo. In PHYSICAL REVIEW B. ISSN 2469-9950, MAY 28 2024, vol. 109, no. 20. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.205151>, Registrované v: WOS
4. [1.1] SHIN, H. - GASPERICH, K. - ROJAS, T. - NGO, A.T. - KROGEL, J.T. - BENALI, A. Systematic Improvement of Quantum Monte Carlo Calculations in Transition Metal Oxides: sCI-Driven Wavefunction Optimization for Reliable Band Gap Prediction. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, AUG 30 2024, vol. 20, no. 18, p. 8175-8189. Dostupné na: <https://doi.org/10.1021/acs.jctc.4c00335>, Registrované v: WOS
5. [1.2] MUSTAZHEB, Dias - BUKARI, Sherif Dei - BALANAY, Mannix P. Electronic Structure of Semiconducting Fibers. In Semiconducting Fibers: Preparation, Advances, and Applications, 2024-01-01, pp. 27-40. Dostupné na: <https://doi.org/10.1201/9781032697659-3>, Registrované v: SCOPUS
6. [1.2] PERALTA, Mayra - FREIRE, Dennis A. - GONZÁLEZ-HERNÁNDEZ, Rafael - MIRELES, Francisco. Spin-orbit coupling effects in single-layer phosphorene. In Physical Review B, 2024-08-15, 110, 8, pp. ISSN 24699950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.085404>, Registrované v: SCOPUS

ADCA241 FRIGAN, B. - SANTANA, A. - ENGEL, M. - SCHOPF, D. - TREBIN, H.-R. - MIHALKOVIČ, Marek. Low-temperature structure of ξ' -Al-Pd-Mn optimized by ab initio methods. In Physical Review B, 2011, vol. 84, no. 18, art. no. 184203. (2010: 3.774 - IF, Q1 - JCR, 3.318 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.84.184203>

Citácie:

1. [1.1] TIAN, Yuan - GUO, Junhong - WANG, Qian. Study of multiscale mechanical properties of Al-Pd-Mn quasicrystals. In JOURNAL OF ALLOYS AND COMPOUNDS, 2024, vol. 1008, no., art. no. 176704. ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.176704>, Registrované v: WOS

ADCA242 FUCHS, L. - KOCHAN, Denis - SCHMIDT, J. - HÜTTNER, N. - BAUMGARTNER, C. - REINHARDT, S. - GRONIN, S. - GARDNER, G. C. - LINDEMANN, T. - MANFRA, M. J. - STRUNK, C. - PARADISO, N.**. Anisotropic Vortex Squeezing in Synthetic Rashba Superconductors: A Manifestation of Lifshitz Invariants. In Physical Review X, 2022, vol. 12, no. 4, art. no. 041020. (2021: 14.417 - IF, Q1 - JCR, 6.735 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2160-3308. Dostupné na: <https://doi.org/10.1103/PhysRevX.12.041020>

Citácie:

1. [1.1] ATTIAS, L. - MICHAELI, K. - KHODAS, M. Planar Hall effect from superconducting fluctuations. In PHYSICAL REVIEW B, 2024, vol. 110, no. 1, art. no. 014521. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.110.014521>, Registrované v: WOS

2. [1.1] BABKIN, Serafim S. - HIGGINBOTHAM, Andrew P. - SERBYN, Maksym. Proximity-induced gapless superconductivity in two-dimensional Rashba semiconductor in magnetic field. In SCIPost PHYSICS, 2024, vol. 16, no. 5, art. no. 115. ISSN 2542-4653. Dostupné na:

<https://doi.org/10.21468/SciPostPhys.16.5.115>, Registrované v: WOS

3. [1.1] CHIU, Shao-Pin - WANG, ChangJan - LIN, Yi-Chun - TU, Shun-Tast - SAHU, Shouray Kumar - WANG, Ruey-Tay - WU, Chih-Yuan - YEH, Sheng-Shiuan - KIRCHNER, Stefan - LIN, Juhn-Jong. Electronic and superconducting properties of CoSi 2 films on silicon An unconventional superconductor with technological potential. In CHINESE JOURNAL OF PHYSICS, 2024, vol. 90, no., pp. 348-363. ISSN 0577-9073. Dostupné na:

<https://doi.org/10.1016/j.cjph.2024.04.018>, Registrované v: WOS

ADCA243 FUCHS, M. - AHRENS, J. - ANTON, G. - AVERBECK, R. - BECK, R. - BERNSTEIN, A.M. - GABLER, A.R. - HARTE, F. - HARTY, P.D. - HLAVÁČ, Stanislav - KRUSCHE, B. - MCGREGOR, I.J.D. - METAG, V. - NOVOTNY, R. - OWENS, R.O. - PEISE, J. - ROBIGLANDAU, M. - SCHUBERT, A. - SIMON, R.S. - STROHER, H. - TRIES, V. Neutral pion photoproduction from the proton near threshold. In Physics Letters B, 1996, vol. 368, no. 1-2, p. 20-25. (1995: 3.272 - IF, karentované - CCC). (1996 - Current Contents, SCOPUS). ISSN 0370-2693. Dostupné na: [https://doi.org/10.1016/0370-2693\(95\)01488-8](https://doi.org/10.1016/0370-2693(95)01488-8)

Citácie:

1. [1.2] MEIßNER, Ulf G. Chiral Dynamics: Theory and Experiment – A Tribute to Aron Bernstein. In Proceedings of Science, 2024-03-07, 413, pp. Dostupné na: <https://doi.org/10.22323/1.413.0001>, Registrované v: SCOPUS

ADCA244 FUJITA, Nobuhisa - MIHALKOVIČ, Marek** - HENLEY, Christopher L. Canonical-cell tilings and their atomic decorations. In Israel Journal of Chemistry, 2024, vol. 64, no. 10-11, art. no. e202300130. (2023: 2.3 - IF, Q3 - JCR, 0.987 - SJR, Q1 - SJR). ISSN 0021-2148. Dostupné na: <https://doi.org/10.1002/ijch.202300130>

Citácie:

1. [1.1] LIFSHITZ, Ron. Recent Advances in Quasicrystal Research. In ISRAEL JOURNAL OF CHEMISTRY, 2024, vol. 64, no. 10-11. ISSN 0021-2148. Dostupné na: <https://doi.org/10.1002/ijch.202412000>, Registrované v: WOS

ADCA245 FUJITA, T. - STAŇO, Peter - ALLISON, G. - MORIMOTO, K. - SATO, Y. - LARSSON, M. - PARK, J.-H. - LUDWIG, A. - WIECK, A.D. - OIWA, A. -

TARUCHA, S. Signatures of hyperfine, spin-orbit, and decoherence effects in a Pauli spin blockade. In *Physical Review Letters*, 2016, vol. 117, no. 20, art. no. 206802. (2015: 7.645 - IF, Q1 - JCR, 4.656 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.117.206802>

Citácie:

1. [1.1] LUNDBERG, Theodor - IBBERSON, David J. - LI, Jing - HUTIN, Louis - ABADILLO-URIEL, Jose C. - FILIPPONE, Michele - BERTRAND, Benoît - NUNNENKAMP, Andreas - LEE, Chang-Min - STELMASHENKO, Nadia - ROBINSON, Jason W. A. - VINET, Maud - IBBERSON, Lisa - NIQUET, Yann-Michel - GONZALEZ-ZALBA, M. Fernando. Non-symmetric Pauli spin blockade in a silicon double quantum dot. In *NPJ QUANTUM INFORMATION*, 2024, vol. 10, no. 1, art. no. 28. Dostupné na: <https://doi.org/10.1038/s41534-024-00820-1>, Registrované v: WOS

ADCA246 GAWRACZYŃSKI, Jakub - KURZYDŁOWSKI, Dominik - EWINGS, Russell A. - BANDARU, Subrahmanyam - GADOMSKI, Wojciech - MAZEJ, Zoran - RUANI, Giampiero - BERGENTI, Ilaria - JARON, Tomasz - OZAROWSKI, Andrew - HILL, Stephen - LESZCZYŃSKI, Piotr J. - TOKÁR, Kamil - DERZSI, Mariana - BARONE, Paolo - WOHLFELD, Krzysztof - LORENZANA, José** - GROCHALA, Wojciech**. Silver route to cuprate analogs. In *Proceedings of the National Academy of Sciences of the United States of America*, 2019, vol. 116, no. 5, p. 1495-1500. (2018: 9.580 - IF, Q1 - JCR, 5.601 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0027-8424. Dostupné na: <https://doi.org/10.1073/pnas.1812857116>

Citácie:

1. [1.1] JESCHKE, Harald O. - SHIMIZU, Makoto - MAZIN, Igor I. *CuAg(SO₄)₂: A doubly strongly correlated altermagnetic three-dimensional analog of the parent compounds of high-T_c cuprates*. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 22, art. no. L220412. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.L220412>, Registrované v: WOS

2. [1.1] VIVOD, Matic Belak - JAGLICIC, Zvonko - KING, Graham - HANSEN, Thomas C. - LOZINSEK, Matic - DRAGOMIR, Mirela. Mechanochemical Synthesis and Magnetic Properties of the Mixed-Valent Binary Silver(I,II) Fluorides, AgS^{VI}/S^{IV} 2AgS^{VI}/S^{IV}F₄ and AgS^{VI}/S^{IV}AgS^{VI}/S^{IV}F₃ In *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*, 2024, vol. 146, no. 44, pp. 30510-30517. ISSN 0002-7863. Dostupné na: <https://doi.org/10.1021/jacs.4c11772>, Registrované v: WOS

3. [1.2] PUEYO, Adrián Gómez - SÁNCHEZ, Jazmín Aragón - DEGTEV, Ilya - TEMPERINI, Maria Eleonora - JEZIERSKI, Daniel - HOGAN, Conor - CAPOREALE, Antonio - DI GASPARE, Luciana - PERSICHETTI, Luca - DE SETA, Monica - GROCHALA, Wojciech - BARONE, Paolo - CAMILLI, Luca - LORENZANA, Jose. How orbitals and oxidation states determine apparent topographies in scanning tunneling microscopy: The case of fluorine on silver surfaces. In *Physical Review B*, 2024-12-15, 110, 23, pp. ISSN 24699950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.235407>, Registrované v: SCOPUS

ADCA247 GEBRU, Medhanie Gebremedhin - SUBRAMANIAN, Palaniappan** - BĚLSKÝ, Petr - YADAV, Radhey Shyam - PITUSSI, Itay - SASI, Sarath - MEDLÍN, Rostislav - MINAR, Jan - ŠVEC, Peter Jr. - KORNWEITZ, Haya - SCHECHTER, Alex**. Chemical-Dealloying-Derived PtPdPb-Based Multimetallic Nanoparticles: Dimethyl Ether Electrocatalysis and Fuel Cell Application. In *ACS Applied Materials & Interfaces*, 2023, vol. 15, no. 49, p. 56930-56944. (2022: 9.5 - IF, Q1 - JCR, 2.178 -

SJR, Q1 - SJR). ISSN 1944-8244. Dostupné na:

<https://doi.org/10.1021/acsami.3c11003>

Citácie:

1. [1.1] JIN, Ruonan - LU, Qingqing - LIAO, Junjie - ZHU, Yuzhou - HUANG, Tao - WANG, Wenhui - WU, Yuheng - VARELA, Hamilton - EID, Kamel. Prompt template-free synthesis of porous PtPb sponge-like nanostructure for electro-oxidation of methanol and carbon monoxide. In *ELECTROCHIMICA ACTA*, 2024, vol. 508, no., art. no. 145210. ISSN 0013-4686. Dostupné na:

<https://doi.org/10.1016/j.electacta.2024.145210>, Registrované v: WOS

2. [1.1] LU, Qingqing - JIN, Ruonan - HUANG, Tao - ZHU, Yuzhou - SUN, Huitong - SU, Zhihao - MA, Furui - EID, Kamel. Facile one-step synthesis of porous PtPb neural network-like nanowires for electrooxidation of methanol with a CO-poisoning tolerance. In *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, 2024, vol. 91, no., pp. 1127-1135. ISSN 0360-3199. Dostupné na:

<https://doi.org/10.1016/j.ijhydene.2024.10.143>, Registrované v: WOS

3. [1.1] WEI, Zebin - SHEN, Yongqing - WANG, Xudong - SONG, Yanhui - GUO, Junjie. Recent advances of doping strategy for boosting the electrocatalytic performance of two-dimensional noble metal nanosheets. In

NANOTECHNOLOGY, 2024, vol. 35, no. 40, art. no. 402003. ISSN 0957-4484.

Dostupné na: <https://doi.org/10.1088/1361-6528/ad6162>, Registrované v: WOS

4. [1.1] WU, Quanlin - MIN, Yuanyuan - YANG, Yunchi - WANG, Yingying - MA, Yanyun - ZHENG, Yiqun. One-pot synthesis of PdAuAg nanocrystals for efficient electrocatalytic oxidation of ethanol: achieving morphology control by independently adjusting metal-atom concentrations. In *CRYSTENGCOMM*, 2024, vol. 26, no. 22, pp. 2906-2917. Dostupné na: <https://doi.org/10.1039/d4ce00353e>, Registrované v: WOS

ADCA248 GEJDOŠ JANOTOVÁ, Irena** - ŠVEC, Peter - ŠVEC, Peter Jr. - MAŤKO, Igor - JANIČKOVIČ, Dušan - KUNCA, Branislav - MARCIN, Jozef - ŠKORVÁNEK, Ivan. Formation of magnetic phases in rapidly quenched Mn-based systems. In *Journal of Alloys and Compounds*, 2018, vol. 749, p. 128-133. (2017: 3.779 - IF, Q1 - JCR, 1.020 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na:

<https://doi.org/10.1016/j.jallcom.2018.03.208>

Citácie:

1. [1.2] LI, Dong Yang - ZHANG, Xiao Nan - CHEN, Wei Peng - ZHAI, Yuan Qi - ZHENG, Yan Zhen. Polymeric Manganese(II) Acetate Derivatives: Syntheses, Crystal Structures and Magnetic Properties. In *European Journal of Inorganic Chemistry*, 2024-10-25, 27, 30, pp. ISSN 14341948. Dostupné na:

<https://doi.org/10.1002/ejic.202400360>, Registrované v: SCOPUS

ADCA249 GEJDOŠ JANOTOVÁ, Irena** - ŠVEC, Peter - ŠVEC, Peter Jr. - MAŤKO, Igor - JANIČKOVIČ, Dušan - ZIGO, Juraj - MIHALKOVIČ, Marek - MARCIN, Jozef - ŠKORVÁNEK, Ivan. Phase analysis and structure of rapidly quenched Al-Mn systems. In *Journal of Alloys and Compounds*, 2017, vol. 707, p. 137-141. (2016: 3.133 - IF, Q1 - JCR, 0.954 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0925-8388. Dostupné na:

<https://doi.org/10.1016/j.jallcom.2016.11.171>

Citácie:

1. [1.1] HERNANDEZ, J. S. Trujillo - MACCARI, F. - TABARES, J. A. - SKOKOV, K. P. - ALCAZAR, G. A. Perez - GUTFLEISCH, O. - ENER, S. Structural and magnetic properties of rapidly solidified and Bi-bonded hot compacted Mn 53.3-x Al 45 C 1.7 Ti x magnets. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*, 2024, vol. 610, no., art. no. 172573. ISSN 0304-8853. Dostupné na:

- <https://doi.org/10.1016/j.jmmm.2024.172573>, Registrované v: WOS
- ADCA250 GENDIAR, Andrej - KRČMÁR, R. - ANDERGASSEN, S. - DANIŠKA, Michal - NISHINO, T. Weak correlation effects in the ising model on triangular-tiled hyperbolic lattices. In *Physical Review E*, 2012, vol. 86, no. 2, art. no. 021105. (2011: 2.255 - IF, Q1 - JCR, 1.480 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.86.021105>
- Citácie:
1. [1.1] LUKIN, I. - SOTNIKOV, A. G. Corner transfer matrix renormalization group approach in the zoo of Archimedean lattices. In *PHYSICAL REVIEW E*, 2024, vol. 109, no. 4, art. no. 045305. ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.109.045305>, Registrované v: WOS
 2. [1.2] OKUNISHI, Kouichi - TAKAYANAGI, Tadashi. Statistical mechanics approach to the holographic renormalization group: Bethe lattice Ising model and p-adic AdS/CFT. In *Progress of Theoretical and Experimental Physics*, 2024-01-01, 2024, 1, pp. Dostupné na: <https://doi.org/10.1093/ptep/ptad156>, Registrované v: SCOPUS
- ADCA251 GENDIAR, Andrej - DANIŠKA, Michal - LEE, Y. - NISHINO, T. Suppression of finite-size effects in one-dimensional correlated systems. In *Physical Review A*, 2011, vol. 83, no. 5, art. no. 052118. (2010: 2.861 - IF, Q1 - JCR, 2.400 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.83.052118>
- Citácie:
1. [1.1] BAI, Chen - MIYATA, Akihiro - NOZAKI, Masahiro. Entanglement dynamics in 2d HCFTs on the curved background: the case of q-Möbius Hamiltonian. In *JOURNAL OF HIGH ENERGY PHYSICS*, 2024, vol., no. 12, art. no. 208. ISSN 1029-8479. Dostupné na: [https://doi.org/10.1007/JHEP12\(2024\)208](https://doi.org/10.1007/JHEP12(2024)208), Registrované v: WOS
 2. [1.1] BERNAMONTI, Alice - GALLI, Federico - GE, Dongsheng. Boundary-induced transitions in Möbius quenches of holographic BCFT. In *JOURNAL OF HIGH ENERGY PHYSICS*, 2024, vol., no. 6, art. no. 184. ISSN 1029-8479. Dostupné na: [https://doi.org/10.1007/JHEP06\(2024\)184](https://doi.org/10.1007/JHEP06(2024)184), Registrované v: WOS
 3. [1.1] GOTO, Kanato - GUO, Taozhi - NOSAKA, Tomoki - NOZAKI, Masahiro - RYU, Shinsei - TAMAOKA, Kotaro. Spatial deformation of many-body quantum chaotic systems and quantum information scrambling. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 5, art. no. 054301. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.054301>, Registrované v: WOS
 4. [1.1] GOTO, Kanato - NOZAKI, Masahiro - RYU, Shinsei - TAMAOKA, Kotaro - TAN, Mao Tian. Scrambling and recovery of quantum information in inhomogeneous quenches in two-dimensional conformal field theories. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 2, art. no. 023001. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.023001>, Registrované v: WOS
 5. [1.1] KUDLER-FLAM, Jonah - NOZAKI, Masahiro - NUMASAWA, Tokiro - RYU, Shinsei - TAN, Mao Tian. Bridging two quantum quench problems local joining quantum quench and Möbius quench and their holographic dual descriptions. In *JOURNAL OF HIGH ENERGY PHYSICS*, 2024, vol., no. 8, art. no. 213. ISSN 1029-8479. Dostupné na: [https://doi.org/10.1007/JHEP08\(2024\)213](https://doi.org/10.1007/JHEP08(2024)213), Registrované v: WOS
 6. [1.1] MAO, Weibo - NOZAKI, Masahiro - TAMAOKA, Kotaro - TAN, Mao Tian. Local operator quench induced by two-dimensional inhomogeneous and homogeneous CFT Hamiltonians. In *JOURNAL OF HIGH ENERGY PHYSICS*, 2024, vol., no. 7, art. no. 200. ISSN 1029-8479. Dostupné na:

[https://doi.org/10.1007/JHEP07\(2024\)200](https://doi.org/10.1007/JHEP07(2024)200), Registrované v: WOS

7. [1.1] MIYATA, Akihiro - NOZAKI, Masahiro - TAMAOKA, Kotaro - WATANABE, Masataka. Hawking-Page and entanglement phase transition in 2d CFT on curved backgrounds. In JOURNAL OF HIGH ENERGY PHYSICS, 2024, vol., no. 8, art. no. 190. ISSN 1029-8479. Dostupné na:

[https://doi.org/10.1007/JHEP08\(2024\)190](https://doi.org/10.1007/JHEP08(2024)190), Registrované v: WOS

8. [1.1] NOZAKI, Masahiro - TAMAOKA, Kotaro - TAN, Mao Tian.

Inhomogeneous quenches as state preparation in two-dimensional conformal field theories. In PHYSICAL REVIEW D, 2024, vol. 109, no. 12, art. no. 126014. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.109.126014>,

Registrované v: WOS

9. [1.1] SAITO, Hidehiro - HOTTA, Chisa. Exact Matrix Product States at the Quantum Lifshitz Tricritical Point in a Spin-1/2 Zigzag-Chain Antiferromagnet with Anisotropic Γ Term. In PHYSICAL REVIEW LETTERS, 2024, vol. 132, no. 16, art. no. 166701. ISSN 0031-9007. Dostupné na:

<https://doi.org/10.1103/PhysRevLett.132.166701>, Registrované v: WOS

10. [1.1] SAITO, Hidehiro - HOTTA, Chisa. Phase diagram of the quantum spin-21 Heisenberg-T model on a frustrated zigzag chain. In PHYSICAL REVIEW B, 2024, vol. 110, no. 2, art. no. 024409. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.110.024409>, Registrované v: WOS

ADCA252 GENZOR, Jozef - GENDIAR, Andrej - NISHINO, Tomotoshi. Local and global magnetization on the Sierpiński carpet. In Physical Review E, 2023, vol. 107, no. 4, art. no. 044108. (2022: 2.4 - IF, Q1 - JCR, 0.819 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.107.044108>

Citácie:

1. [1.1] AKIMENKO, S. S. - MYSHLYAVTSEV, A. Tensor networks for hierarchical lattices. In EPL, 2024, vol. 148, no. 6, art. no. 61001. ISSN 0295-5075. Dostupné na: <https://doi.org/10.1209/0295-5075/ad994b>, Registrované v: WOS

ADCA253 GHASEMI, Bitá - ŠEVČÍK, Jakub - TOUŠKOVÁ, Jana - TOUŠEK, Jiří - KLOSSE, Patricie - NÁDAŽDY, Vojtech - VÉGSÖ, Karol - ŠIFFALOVIC, Peter - HANULÍKOVÁ, Barbora - URBÁNEK, Michal - KUŘITKA, Ivo - URBÁNEK, Pavel. Trade-off between high performance and long life due to nanofiller effects in polymer LEDs: MEH-PPV/Al₂O₃ nanocomposite study. In Applied Surface Science, 2024, vol. 657, art. no. 159807. (2023: 6.3 - IF, Q1 - JCR, 1.21 - SJR, Q1 - SJR). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2024.159807>

Citácie:

1. [1.1] TRAN, Thanh Thao - NGUYEN, Ha Trang - SHARMA, Ankush - CHO, Young-Bin - KUMAR, Manjeet - YUN, Ju-Hyung. Expanding the Spectral Responsivity of Photodetectors via the Integration of CdSe/ZnS Quantum Dots and MEH-PPV Polymer Composite. In POLYMERS, 2024, vol. 16, no. 16, art. no. 2371. Dostupné na: <https://doi.org/10.3390/polym16162371>, Registrované v: WOS

ADCA254 GHASEMI, Bitá - ŠEVČÍK, Jakub - NÁDAŽDY, Vojtech - VÉGSÖ, Karol - ŠIFFALOVIC, Peter - URBÁNEK, Pavel** - KUŘITKA, Ivo. Thickness Dependence of Electronic Structure and Optical Properties of F8BT Thin Films. In Polymers : Open Access Polymer Science Journal, 2022, vol. 14, no. 3, art. no. 641. (2021: 4.967 - IF, Q1 - JCR, 0.726 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2073-4360. Dostupné na:

<https://doi.org/10.3390/polym14030641>

Citácie:

1. [1.1] CHAUHAN, Mitu - SINGH, Ram Sevak - SINGH, Arun Kumar. Aggregation induced strong photoluminescence at room temperature in large-area C8BTBT thin films. In *SYNTHETIC METALS*, 2024, vol. 306, no., art. no. 117624. ISSN 0379-6779. Dostupné na: <https://doi.org/10.1016/j.synthmet.2024.117624>, Registrované v: WOS
2. [1.1] CHEN, Honghao - YUE, Xiaorui - FAN, Yifei - ZHENG, Bin - LV, Sitao - WANG, Fengnan - GAO, Yixun - LI, Hao - LEE, Yi-Kuen - FRENCH, Patrick J. - SIDDIQUI, Ahmad M. Umar - WANG, Yao - ZHOU, Guofu. CO₂-induced switching between MOF-based bio-mimic slow anion channel and proton pump for medical exhalation detection. In *CHEMICAL ENGINEERING JOURNAL*, 2024, vol. 493, no., art. no. 152633. ISSN 1385-8947. Dostupné na: <https://doi.org/10.1016/j.cej.2024.152633>, Registrované v: WOS
3. [1.1] DE BRITO, Elisa Barbosa - SANTOS, Daniela Correa - DE PAULA, Taihana Parente - DE MORAIS, Andreia - DE FREITAS, Jilian Nei - VALASKI, Rogerio - MARQUES, Maria de Fatima Vieira - COCCA, Leandro Henrique Zucolotto - PELOSI, Andre Gasparotto - DE BONI, Leonardo - MONTEIRO, Sergio Neves. Synthesis and characterization of novel fluorene-based green copolymers and their potential application in organic light-emitting diodes. In *JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T*, 2024, vol. 28, no., pp. 4317-4333. ISSN 2238-7854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2023.12.249>, Registrované v: WOS
4. [1.1] KIM, Jungmin - CHOUGALE, Mahesh Y. - SHAUKAT, Rayyan Ali - PATIL, Swapnil R. - NOMAN, Muhammad - PATIL, Chandrashekhar S. - SAQIB, Qazi Muhammad - KO, Youngbin - BAE, Jinho. F8BT-based highly sensitive humidity sensor for metaverse interfacing. In *SENSORS AND ACTUATORS B-CHEMICAL*, 2024, vol. 398, no., art. no. 134717. Dostupné na: <https://doi.org/10.1016/j.snb.2023.134717>, Registrované v: WOS
5. [1.1] PAPADOPOULOS, Kyparisis - TSELEKIDOU, Despoina - ZACHARIADIS, Alexandros - LASKARAKIS, Argiris - LOGOTHETIDIS, Stergios - GIOTI, Maria. The Influence of Thickness and Spectral Properties of Green Color-Emitting Polymer Thin Films on Their Implementation in Wearable PLED Applications. In *NANOMATERIALS*, 2024, vol. 14, no. 19, art. no. 1608. Dostupné na: <https://doi.org/10.3390/nano14191608>, Registrované v: WOS

ADCA255

GHOSAL, Kajal* - KOVÁČOVÁ, Mária* - HUMPOLÍČEK, Petr - VAJĎÁK, Jan - BODIK, Michal - ŠPITÁLSKY, Zdenko**. Antibacterial photodynamic activity of hydrophobic carbon quantum dots and polycaprolactone based nanocomposite processed via both electrospinning and solvent casting method. In *Photodiagnosis and Photodynamic Therapy*, 2021, vol. 35, art. no. 102455, [9] p. (2020: 3.631 - IF, Q3 - JCR, 0.757 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1572-1000. Dostupné na: <https://doi.org/10.1016/j.pdpdt.2021.102455>

Citácie:

1. [1.1] DASKALAKIS, Evangelos - HUANG, Boyang - HASSAN, Mohamed H. - OMAR, Abdalla M. - VYAS, Cian - ACAR, Anil A. - FALLAH, Ali - COOPER, Glen - WEIGHTMAN, Andrew - BLUNN, Gordon - KOC, Bahattin - BARTOLO, Paulo. In Vitro Evaluation of Pore Size Graded Bone Scaffolds with Different Material Composition. In *3D PRINTING AND ADDITIVE MANUFACTURING*, 2024, vol. 11, no. 2, pp. e718-e730. ISSN 2329-7662. Dostupné na: <https://doi.org/10.1089/3dp.2022.0138>, Registrované v: WOS
2. [1.1] EL MOUJAHEED, Sara - ERRACHIDI, Faouzi - MOROSANU, Ana-Maria - ABOU OUALID, Hicham - AVRAMESCU, Sorin Marius - CUDALBEANU, Mihaela Dragoi - CHAHDI, Fouad Ouazzani - RODI, Youssef Kandri - DINICA, Rodica-Mihaela. Sustainable Collagen Film Preparation with Tannins Extracted

- from Moroccan Pomegranate Byproduct Varieties: Thermal, Structural, and Nanoscaled Studies. In ACS OMEGA, 2024, vol. 9, no. 25, pp. 27428-27437. ISSN 2470-1343. Dostupné na: <https://doi.org/10.1021/acsomega.4c02321>, Registrované v: WOS
3. [1.1] HE, Chaonan - FENG, Peipei - HAO, Mingming - TANG, Yun - WU, Xiang - CUI, Wenguo - MA, Jingyun - KE, Chunhai. Nanomaterials in Antibacterial Photodynamic Therapy and Antibacterial Sonodynamic Therapy. In ADVANCED FUNCTIONAL MATERIALS, 2024, vol. 34, no. 38. ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202402588>, Registrované v: WOS
4. [1.1] JABERIFARD, Farnaz - ALMAJIDI, Yasir Q. - ARSALANI, Nasser - GHORBANI, Marjan. A self-healing crosslinked-xanthan gum/soy protein based film containing halloysite nanotube and propolis with antibacterial and antioxidant activity for wound healing. In INTERNATIONAL JOURNAL OF PHARMACEUTICS, 2024, vol. 656, no. ISSN 0378-5173. Dostupné na: <https://doi.org/10.1016/j.ijpharm.2024.124073>, Registrované v: WOS
5. [1.1] LATIF, Zeeshan - ALBARGI, Hasan B. - KHALIQ, Zubair - SHAHID, Kinza - KHALID, Usama - QADIR, Muhammad Bilal - ALI, Mumtaz - ARSHAD, Salman Noshear - ALKORBI, Ali S. - JALALAH, Mohammed. Reinforcement using undoped carbon quantum dots (CQDs) with a partially carbonized structure doubles the toughness of PVA membranes. In NANOSCALE ADVANCES, 2024, vol. 6, no. 6, pp. 1750-1764. ISSN 2516-0230. Dostupné na: <https://doi.org/10.1039/d3na01143g>, Registrované v: WOS
6. [1.1] LATIF, Zeeshan - SHAHID, Kinza - ANWER, Hassan - SHAHID, Raghisa - ALI, Mumtaz - LEE, Kang Hoon - ALSHAREEF, Mubark. Carbon quantum dots (CQDs)-modified polymers: a review of non-optical applications. In NANOSCALE, 2024, vol. 16, no. 5, pp. 2265-2288. ISSN 2040-3364. Dostupné na: <https://doi.org/10.1039/d3nr04997c>, Registrované v: WOS
7. [1.1] RAZAVI, Roghayieh - TAJIK, Hossein - MOLAEI, Rahim - MCCLEMENTS, David Julian - MORADI, Mehran. Janus nanoparticles synthesized from hydrophobic carbon dots and carboxymethyl cellulose: Novel antimicrobial additives for fresh food applications. In FOOD BIOSCIENCE, 2024, vol. 62, no., art. no. 105171. ISSN 2212-4292. Dostupné na: <https://doi.org/10.1016/j.fbio.2024.105171>, Registrované v: WOS
8. [1.1] RODRIGUEZ, Omar Alejandro Gonzalez - GUERRERO, Nancy Cecilia Ramirez - PIMENTEL, Rocio Guadalupe Casanas - FONSECA, Monica Rosalia Jaime - MARTINEZ, Eduardo San Martin. Polycaprolactone, polylactic acid, and nanohydroxyapatite scaffolds obtained by electrospinning and 3D printing for tissue engineering. In INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, 2024, vol. 73, no. 15, pp. 1279-1290. ISSN 0091-4037. Dostupné na: <https://doi.org/10.1080/00914037.2023.2277222>, Registrované v: WOS
9. [1.1] ROSSIN, Ariane Regina Souza - SPESSATO, Lucas - CARDOSO, Fabiana da Silva Lima - CAETANO, Josiane - CAETANO, Wilker - RADOVANOVIC, Eduardo - DRAGUNSKI, Douglas Cardoso. Electrospinning in personal protective equipment for healthcare work. In POLYMER BULLETIN, 2024, vol. 81, no. 3, pp. 1957-1980. ISSN 0170-0839. Dostupné na: <https://doi.org/10.1007/s00289-023-04814-5>, Registrované v: WOS
10. [1.1] SEPAHDAR, Asma - RAHNAMAFAR, Reyhaneh - BAHADORIKHALILI, Saeed - AZADBAKHT, Kamran - ESLAMI, Omid - REZVANFAR, Mohammad Amin - REZAEI, Ghassem - JAVAR, Hamid Akbari. Metformin and silymarin loaded onto poly(caprolactone)/chitosan polymeric nanofiber based pads for

diabetic wound healing. In *NEW JOURNAL OF CHEMISTRY*, 2024, vol. 48, no. 22, pp. 10314-10323. ISSN 1144-0546. Dostupné na: <https://doi.org/10.1039/d3nj05628g>, Registrované v: WOS

11. [1.1] SHABANKHAH, Maryam - MOGHADDASZADEH, Ali - NAJMODDIN, Najmeh. 3D printed conductive PCL/GO scaffold immobilized with gelatin/CuO accelerates H9C2 cells attachment and proliferation. In *PROGRESS IN ORGANIC COATINGS*, 2024, vol. 186, no., art. no. 108013. ISSN 0300-9440. Dostupné na: <https://doi.org/10.1016/j.porgcoat.2023.108013>, Registrované v: WOS

12. [1.1] STRAMARKOU, Marina - TZEIANNAKIS, Ioannis - CHRISTOFORIDI, Erifyli - KROKIDA, Magdalini. Use of Electrospinning for Sustainable Production of Nanofibers: A Comparative Assessment of Smart Textiles-Related Applications. In *POLYMERS*, 2024, vol. 16, no. 4, art. no. 514. Dostupné na: <https://doi.org/10.3390/polym16040514>, Registrované v: WOS

13. [1.2] VARGHESE, Meera - MATHEW, Aleena Ann - BALACHANDRAN, Manoj. Nanocomposites in Combating Antimicrobial Resistance. In *Nanotechnology Based Strategies for Combating Antimicrobial Resistance*, 2024-01-01, pp. 203-230. ISBN [9789819720224, 9789819720231]. Dostupné na: https://doi.org/10.1007/978-981-97-2023-1_8, Registrované v: SCOPUS

ADCA256 GHOSHAL, Ahana - SAU, Soham - DAS, Debmalaya - SEN, Ujjwal. Isolating noise and amplifying the signal using weak quantum measurement and postselection. In *Physical Review A*, 2023, vol. 107, no. 5, art. no. 052214. (2022: 2.9 - IF, Q2 - JCR, 1.11 - SJR, Q1 - SJR). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.107.052214>

Citácie:

1. [1.1] WAEGELL, Mordecai - TOLLAKSEN, Jeff - AHARONOV, Yakir. Separating a particle's mass from its momentum. In *QUANTUM*, 2024, vol. 8, no., art. no. 1536. ISSN 2521-327X., Registrované v: WOS

2. [1.2] ZHANG, Y. C. - ZHANG, W. - ZENG, P. - ZHAO, C. J. - HUANG, S. - LI, T. - WANG, X. L. - SONG, H. Z. Research Progress in Quantum Weak Measurement Methods for Chiral Molecule Detection. In *2024 Photonics and Electromagnetics Research Symposium Piers 2024 Proceedings*, 2024-01-01, pp. ISBN [9798350375909]. Dostupné na:

<https://doi.org/10.1109/PIERS62282.2024.10618539>, Registrované v: SCOPUS

ADCA257 GIUDICE, Valentina Lo - ANTOV, Petar - KOYNOV, Daniel - KRISTAK, Lubos - LEED, Seng Hua - LUBIS, Muhammad Adly Rahandi - MECCA, Marisabel - MORETTI, Nicola - TIWARI, Rupali - TODARO, Luigi. Effect of thermo-vacuum modification on selected chemical, physical, and mechanical properties of Siberian larch (*Larix sibirica* L.) wood. In *Wood Materials Science & Engineering*, 2023, vol. 18, no. 6, p. 1991-2000. (2022: 2.2 - IF, Q2 - JCR, 0.461 - SJR, Q2 - SJR). ISSN 1748-0272. Dostupné na: <https://doi.org/10.1080/17480272.2023.2212253>

Citácie:

1. [1.1] LI, Jingkui - XU, Liying - WANG, Yanan - XIAO, Zirun - YU, Ying. Mechanical properties and photostability of fast-growing wood deposited with nano-Al₂O₃/ZnO composite films. In *WOOD MATERIAL SCIENCE & ENGINEERING*, 2024, vol. 19, no. 3, pp. 774-782. ISSN 1748-0272. Dostupné na: <https://doi.org/10.1080/17480272.2023.2301429>, Registrované v: WOS

2. [1.2] GÖRGÜN, Hızır Volkan - ÜNSAL, Öner. Dimension stability of thermo-vacuum treated scots pine wood. In *Furniture and Wooden Material Research Journal*, 2024-12-30, 7, 2, pp. 163-171. Dostupné na:

<https://doi.org/10.33725/mamad.1520817>, Registrované v: SCOPUS

ADCA258 GMUCA, Štefan. Finite-nuclei calculations based on relativistic mean-field effective

interactions. In Nuclear Physics A, 1992, vol. 547, no. 3, p. 447-458. ISSN 0375-9474. Dostupné na: [https://doi.org/10.1016/0375-9474\(92\)90032-F](https://doi.org/10.1016/0375-9474(92)90032-F)

Citácie:

1. [1.1] KALITA, Probit J. - ROUTARAY, Pinku - SINGHA, Khokan - KUMAR, Bharat - AGRAWAL, B. K. *Exploring the impact of the σ -cut scheme on neutron star oscillations and thermal relaxations*. In PHYSICAL REVIEW C, 2024, vol. 110, no. 4, art. no. 045807. ISSN 2469-9985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.110.045807>, Registrované v: WOS

2. [1.1] SUN, Boyang - BHATTIPROLU, Saketh - LATTIMER, James M. *Compiled properties of nucleonic matter and nuclear and neutron star models from nonrelativistic and relativistic interactions*. In PHYSICAL REVIEW C, 2024, vol. 109, no. 5, art. no. 055801. ISSN 2469-9985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.109.055801>, Registrované v: WOS

ADCA259 GMUCA, Štefan. Relativistic mean-field parametrization of effective interaction in nuclear-matter. In Zeitschrift fur Physik A, 1992, vol. 342, no. 4, p. 387-392. ISSN 0939-7922. Dostupné na: <https://doi.org/10.1007/BF01294948>

Citácie:

1. [1.1] SUN, Boyang - BHATTIPROLU, Saketh - LATTIMER, James M.

Compiled properties of nucleonic matter and nuclear and neutron star models from nonrelativistic and relativistic interactions. In PHYSICAL REVIEW C, 2024, vol. 109, no. 5, art. no. 055801. ISSN 2469-9985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.109.055801>, Registrované v: WOS

ADCA260 GMUCA, Štefan. Superheavy nuclei in the RMF framework. In Acta Physica Hungarica. New series. Heavy ion physics, 2004, vol. 19, no. 1-2, p. 155-160. ISSN 1219-7580. Dostupné na: <https://doi.org/10.1556/APH.19.2004.1-2.24>

Citácie:

1. [1.1] NESARAJA, C. D. *Nuclear Data Sheets for A=246*. In NUCLEAR DATA SHEETS, 2024, vol. 198, no., pp. 449-534. ISSN 0090-3752. Dostupné na:

<https://doi.org/10.1016/j.nds.2024.11.002>, Registrované v: WOS

ADCA261 GMUCOVÁ, Katarína - WEIS, Martin Jr. - BARANČOK, Drahoslav - CIRÁK, Július - TOMČÍK, Pavol - PAVLÁSEK, Juraj. Ion selectivity of a poly(3-pentylmethoxythiophene) LB-layer modified carbon-fiber microelectrode as a consequence of the second order filtering in volt coulometry. In Journal of Biochemical and Biophysical Methods, 2007, vol. 70, no. 3, pp. 385-390. (2006: 1.403 - IF, Q4 - JCR). ISSN 0165-022X.

Citácie:

1. [1.1] FERNANDEZ, H. - EL HAITAMI, A. - HEMMERLE, A. - SHEN, C. - JORDT, P. - GIRI, R.P. - FONTAINE, P. - CANTIN, S. *Tuning the order of poly(3-alkylthiophene) derivatives ultrathin films through side-chain polarity: From a short-range ordered monolayer to a highly crystalline bilayer*. In POLYMER. ISSN 0032-3861, FEB 16 2024, vol. 294, art. no. 126719., Registrované v: WOS

ADCA262 GMUCOVÁ, Katarína - NÁDAŽDY, Vojtech - DURNÝ, Rudolf. The nature of mobile hydrogen in a-Si:H: Electrochemical studies. In Solar Energy, 2006, vol. 80, no. 6, p. 694-700. Dostupné na: <https://doi.org/10.1016/j.solener.2006.02.001>

Citácie:

1. [1.1] STOCEK, Noah B. - YOUNG, Miguel J. - BAULD, Reg - OUYANG, Tianhao - FANCHINI, Giovanni. *Cross-sectional profile of photocarrier mobility in thin-film solar cells via multimolecular recombination and charge extraction by linearly increasing voltage (cs-p-CELIV)*. In JOURNAL OF APPLIED PHYSICS, 2024, vol. 135, no. 4, art. no. 043104. ISSN 0021-8979. Dostupné na:

<https://doi.org/10.1063/5.0174799>, Registrované v: WOS

ADCA263 GMUCOVÁ, Katarína**. Structural properties versus electronic structure of donor-

acceptor alternating copolymers: A review. In *Synthetic Metals*, 2021, vol. 274, no. 11, art. no. 116718. (2020: 3.266 - IF, Q2 - JCR, 0.672 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0379-6779. Dostupné na: <https://doi.org/10.1016/j.synthmet.2021.116718>

Citácie:

1. [1.1] GAO, Yingxv - HUI, Qunbo - LIU, Qi - XIA, Xiaohong - LI, Run - CHEN, Yuxi - WANG, Deping - LIU, Hongbo. *Insights into the heteroatom-incorporated storage mechanism of hierarchically interconnected porous conjugated polymer networks for extremely stable potassium-ion storage*. In *CHEMICAL ENGINEERING JOURNAL*, 2024, vol. 483, no., art. no. 149200. ISSN 1385-8947. Dostupné na: <https://doi.org/10.1016/j.cej.2024.149200>, Registrované v: WOS

2. [1.1] MOTA, Isabela Custodio - ARIAS, Jonathan Rubio - DE ARAUJO, Francineide Lopes - NOGUEIRA, Ana Flavia - MARQUES, Maria de Fatima Vieira. *Effect of different side chains on alternating copolymers of benzodithiophene and thiophene in organic solar cells*. In *JOURNAL OF APPLIED POLYMER SCIENCE*, 2024, vol. 141, no. 17. ISSN 0021-8995. Dostupné na: <https://doi.org/10.1002/app.55283>, Registrované v: WOS

ADCA264

GMUCOVÁ, Katarína - NÁDAŽDY, Vojtech - SCHAUER, F. - KAISER, Michal - MAJKOVÁ, Eva. Electrochemical spectroscopic methods for the fine band gap electronic structure mapping in organic semiconductors. In *Journal of Physical Chemistry C*, 2015, vol. 119, no. 28, p. 15926-15934. (2014: 4.772 - IF, Q1 - JCR, 2.032 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.5b04378>

Citácie:

1. [1.1] KASHANI, Somayeh - RECH, Jeromy James - LIU, Tuo - BAUSTERT, Kyle - GHAFARI, Abbas - ANGUNAWELA, Indunil - XIONG, Yuan - DINKU, Abay - YOU, Wei - GRAHAM, Kenneth - ADE, Harald. *Exciton Binding Energy in Organic Polymers: Experimental Considerations and Tuning Prospects*. In *ADVANCED ENERGY MATERIALS*, 2024, vol. 14, no. 6. ISSN 1614-6832. Dostupné na: <https://doi.org/10.1002/aenm.202302837>, Registrované v: WOS

2. [1.1] ROCABRUNO-VALDES, C. I. - UGALDE-SALDIVAR, Víctor M. - VALENCIA-GARCIA, Karen - HERNANDEZ-GORDILLO, Agileo - RODIL, Sandra Elizabeth. *Exploring the electronic structure of BiVO₄ thin films using energy-resolved electrochemical impedance spectroscopy*. In *MATERIALS LETTERS*, 2024, vol. 357, no., art. no. 135741. ISSN 0167-577X. Dostupné na: <https://doi.org/10.1016/j.matlet.2023.135741>, Registrované v: WOS

ADCA265

GMUCOVÁ, Katarína**. Fundamental aspects of organic conductive polymers as electrodes. In *Current Opinion in Electrochemistry*, 2022, vol. 36, art. no. 101117. (2021: 7.664 - IF, Q1 - JCR, 1.819 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2451-9103. Dostupné na: <https://doi.org/10.1016/j.coelec.2022.101117>

Citácie:

1. [1.1] BANSAL, Rishabh - HALD, Nessa - GARCIA-SEGURA, Sergi. *Towards the design of mechanical flexible electrodes for sensing: Self-standing polypyrrole-copper nanocomposites*. In *TALANTA*, 2024, vol. 266, no., art. no. 125037. ISSN 0039-9140. Dostupné na: <https://doi.org/10.1016/j.talanta.2023.125037>, Registrované v: WOS

2. [1.1] BURC, Muammer - GUNGOR, Ozgur - DURAN, Serap Titretir. *High-sensitivity electrochemical sensor using no nanomaterials for the detection of ciprofloxacin with poly 2-(hydroxymethyl)thiophene-modified glassy carbon electrode*. In *POLYMER BULLETIN*, 2024, vol. 81, no. 7, pp. 6283-6310. ISSN

- 0170-0839. Dostupné na: <https://doi.org/10.1007/s00289-023-04995-z>, Registrované v: WOS
3. [1.1] CHEN, Xuezheng - CHEN, Wen - HONG, Jianhua - ZHANG, Cancan - YU, Feng - CHEN, Yong. Evaluation of the Polypyrrole Coupling Mode for High-Performance Dual-Ion Batteries. In ACS APPLIED MATERIALS & INTERFACES, 2024, vol. 16, no. 40, pp. 53894-53903. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.4c11750>, Registrované v: WOS
4. [1.1] FARSHADINIA, Azam - KOLAHDOOZAN, Majid - MIRMOHAMMADI, Mehrosadat. A novel, rapidly-constructed synergistic copolymer-metalocene electrode with drug-detection capabilities. In MICROCHEMICAL JOURNAL, 2024, vol. 197, no., art. no. 109858. ISSN 0026-265X. Dostupné na: <https://doi.org/10.1016/j.microc.2023.109858>, Registrované v: WOS
5. [1.1] HE, Shan-shan - HE, Ting-ting - ZHOU, Zi-jun - MUSLIM, Arzugul. High Energy Density and Power Density Electrodes Prepared by Conductive Conjugated Polymers and Carbon Cloth. In ACTA POLYMERICA SINICA, 2024, vol. 55, no. 8, pp. 1044-1058. Dostupné na: <https://doi.org/10.1177/j.issn1000-3304.2024.24007>, Registrované v: WOS
6. [1.1] JIANG, Minyu - LI, Minzhi - ZHANG, Xifeng - ZHU, Weihua - LIANG, Xu. Microenvironment regulation of electropolymerized Thiophene-Based conductive polymers for enhanced electrocatalyzed hydrogen evolutions and oxygen reductions. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY, 2024, vol. 965, no., art. no. 118344. ISSN 1572-6657. Dostupné na: <https://doi.org/10.1016/j.jelechem.2024.118344>, Registrované v: WOS
7. [1.1] KOMAL ZAFAR, Hafiza - ZAINAB, Sara - MASOOD, Maria - SOHAIL, Manzar - SHOAIB AHMAD SHAH, Syed - KARIM, Mohammad R. - O';MULLANE, Anthony - OSTRIKOV, Kostya (Ken) - WILL, Geoffrey - WAHAB, Md A. Recent Advances on Nitrogen-doped Porous Carbons Towards Electrochemical Supercapacitor Applications. In CHEMICAL RECORD, 2024, vol. 24, no. 1. ISSN 1527-8999. Dostupné na: <https://doi.org/10.1002/tcr.202300161>, Registrované v: WOS
8. [1.1] MENDOZA, Alejandro E. Perez - ANDRONESCU, Corina - OLEAN-OLIVEIRA, Andre. Design of conducting polymer/metal-based nanocomposites as electrocatalysts for electrochemical energy conversion. In SYNTHETIC METALS, 2024, vol. 307, no., art. no. 117662. ISSN 0379-6779. Dostupné na: <https://doi.org/10.1016/j.synthmet.2024.117662>, Registrované v: WOS
9. [1.1] TOMAR, Akshay - CHOUDHARY, Nitesh - MALIK, Gaurav - CHANDRA, Ramesh. WSe₂ Nanoflakes on Graphite Sheets for Flexible Symmetric Supercapacitors. In ACS APPLIED NANO MATERIALS, 2024, vol. 7, no. 22, pp. 26111-26125. Dostupné na: <https://doi.org/10.1021/acsanm.4c05378>, Registrované v: WOS
10. [1.1] WEI, Kexin - SHI, Yang - TAN, Xin - SHALASH, Marwan - REN, Juanna - FAHEIM, Abeer A. - JIA, Chong - HUANG, Runzhou - SHENG, Yequan - GUO, Zhanhu - GE, Shengbo. Recent development of metal-organic frameworks and their composites in electromagnetic wave absorption and shielding applications. In ADVANCES IN COLLOID AND INTERFACE SCIENCE, 2024, vol. 332, no., art. no. 103271. ISSN 0001-8686. Dostupné na: <https://doi.org/10.1016/j.cis.2024.103271>, Registrované v: WOS
11. [1.2] JHA, Soumya - PRASANTH, R. Pre & Post-Treatment of Functionalized Nanomaterials in Fabricating Supercapacitor Electrodes. In Materials Horizons from Nature to Nanomaterials, 2024-01-01, part F1329, pp. 223-250. ISSN 25245384. Dostupné na: https://doi.org/10.1007/978-981-99-3021-0_9, Registrované v: SCOPUS

12. [1.2] MOTSOENENG, Rapelang G. - TLADI, Boitumelo C. - SWART, Hendrik C. - KROON, Robin E. - MOTAUNG, David E. Wearable and flexible nanocomposite-based gas sensors. In *Complex and Composite Metal Oxides for Gas Voc and Humidity Sensors Volume 2 Technology and New Trends*, 2024-01-01, pp. 527-562. ISBN [9780323954778, 9780323954761]. Dostupné na:

<https://doi.org/10.1016/B978-0-323-95476-1.00009-5>, Registrované v: SCOPUS

13. [1.2] XIANG, Zhengchen - YANG, Liangtao - YU, Bin - ZENG, Qi - HUANG, Tao - SHI, Shuo - YU, Hao - ZHANG, Yi - WU, Jinglong - ZHU, Meifang. Recent advances in polymer-based thin-film electrodes for ECoG applications. In *Journal of Materials Chemistry B*, 2024-11-12, 13, 2, pp. 454-471. ISSN 2050750X.

Dostupné na: <https://doi.org/10.1039/d4tb02090a>, Registrované v: SCOPUS

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GOIGOUX, T. - THEISEN, Ch.** - SULIGNANO, B. - AIRIAU, M. - AURANEN, K. - BADRAN, H. - BRISELET, R. - CALVERLEY, T. - COX, D. - DÉCHERY, F. - DEFRANCHI BISSO, F. - DROUART, A. - FAVIER, Z. - GALL, B. - GRAHN, T. - GREENLEES, P. T. - HAUSCHILD, K. - HERZÁŇ, Andrej - HERZBERG, R.-D. - JAKOBSSON, U. - JULIN, R. - JUUTINEN, S. - KONKI, J. - LEINO, M. - LIGHTFOOT, A. - LOPEZ-MARTENS, A. - MISTRY, A. - NIEMINEN, P. - PAKARINEN, J. - PAPADAKIS, P. - PARTANEN, J. - PEURA, P. - RAHKILA, P. - REY-HERME, E. - RUBERT, J. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - SCHOLEY, C. - SORRI, J. - STOLZE, S. - UUSITALO, J. - VANDEBROUCK, M. - WARD, A. - ZIELINSKA, M. - JACHIMOWICZ, P. - KOWAL, M. - SKALSKI, J. First observation of high-K isomeric states in 249Md and 251Md. In *European Physical Journal A*, 2021, vol. 57, no. 12, art. no. 321. (2020: 3.043 - IF, Q2 - JCR, 1.232 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1434-6001. Dostupné na:

<https://doi.org/10.1140/epja/s10050-021-00631-4>

Citácie:

1. [1.1] ACKERMANN, D. - ANTALIC, S. - HESSBERGER, F. P. Isomers in superheavy nuclei. In *EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS*, 2024, vol. 233, no. 5, pp. 1017-1036. ISSN 1951-6355. Dostupné na:

<https://doi.org/10.1140/epjs/s11734-024-01150-1>, Registrované v: WOS

2. [1.1] ACKERMANN, Dieter. Superheavy nuclei and other exotics opportunities at SPIRAL2 and SSUP3/SUP. In *INTERNATIONAL CONFERENCE ON HEAVY-ION COLLISIONS AT NEAR-BARRIER ENERGIES, FUSION 2023*, 2024, vol. 306, no., art. no. 01005. ISSN 2100-014X. Dostupné na:

<https://doi.org/10.1051/epjconf/202430601005>, Registrované v: WOS

3. [1.1] NESARAJA, C. D. Nuclear Data Sheets for A=249. In *NUCLEAR DATA SHEETS*, 2024, vol. 195, no., pp. 718-844. ISSN 0090-3752. Dostupné na:

<https://doi.org/10.1016/j.nds.2024.04.003>, Registrované v: WOS

4. [1.1] ROGOV, I. S. - ADAMIAN, G. G. - V. ANTONENKO, N. Spontaneous fission and α decay from K-isomeric states within a cluster approach. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 1, art. no. 014606. ISSN 2469-9985.

Dostupné na: <https://doi.org/10.1103/PhysRevC.110.014606>, Registrované v: WOS

5. [1.1] WALKER, P. M. - KONDEV, F. G. K isomers in atomic nuclei. In *EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS*, 2024, vol. 233, no. 5, pp. 983-1005. ISSN 1951-6355. Dostupné na: <https://doi.org/10.1140/epjs/s11734-024-01096-4>, Registrované v: WOS

ADCA267

GÖMÖRY, Fedor - SOLOVYOV, Mykola - ŠOUC, Ján - VOJENČIAK, Michal - ŠVEC, Peter. Dissipation in superconductor/ferromagnet multilayers for AC magnetic cloaking. In *Journal of Superconductivity and Novel Magnetism*, 2015, vol. 28, p. 725-729. (2014: 0.909 - IF, Q4 - JCR, 0.381 - SJR, Q3 - SJR, karentované -

CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1557-1939. Dostupné na: <https://doi.org/10.1007/s10948-014-2655-4>

Citácie:

1. [1.1] SUN, Y.M. - MA, J. - YOU, S.R. - BADCOCK, R.A. - JIANG, Z.N. *Numerical determination of the threshold magnetic field in superconducting strips and coils triggering dynamic resistance. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. ISSN 0953-2048, DEC 1 2024, vol. 37, no. 12, art. no. 12LT02.*

Dostupné na: <https://doi.org/10.1088/1361-6668/ad8e01>, Registrované v: WOS

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GRAHN, T. - PAKARINEN, J. - JOKINIEMI, L. - ALBERS, M. - AURANEN, K. - BAUER, C. - BERNARDS, C. - BLAZHEV, A. - BUTLER, P.A. - BONIG, S. - DAMYANOVA, A. - DE COSTER, T. - DE WITTE, H. - ELSEVIERS, J. - GAFFNEY, L.P. - HUYSE, M. - HERZÁŇ, A. - JAKOBSSON, U. - JULIN, R. - KESTELOOT, N. - KONKI, J. - KROLL, Th. - LEWANDOWSKI, L. - MOSCHNER, K. - PEURA, P. - PFEIFFER, M. - RADECK, D. - RAHKILA, P. - RAPISARDA, E. - REITER, P. - REYNDERS, K. - RUDIGER, M. - SALSAC, M. - D. - SAMBI, S. - SCHECK, M. - SEIDLITZ, M. - SIEBECK, B. - STEINBACH, T. - STOLZE, S. - SUHONEN, J. - THOELE, P. - THURAU, M. - WARR, N. - VAN DIPPEN, P. - VENHART, Martin - VERMEULEN, M.j. - WERNER, V. - VESELSKÝ, Martin - VOGT, A. - WRZOSEK-LIPSKA, K. - ZIELIŃSKA, M. Collective 21+ excitations in 206Po and 208,210Rn. In European Physical Journal A, 2016, vol. 52, no. 11, art. no. 340. (2015: 2.373 - IF, Q3 - JCR, 0.393 - SJR, Q3 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/i2016-16340-6>

Citácie:

1. [1.1] GUO, Rui - ZHU, Li-Hua - LU, Jing-Bin - FU, Guan-Jian - WANG, Meng - SUN, Bao-Hua - ZHANG, Gao-Long - REN, Zhen - WU, Yi-Heng - ZHENG, Yun - HE, Chuang-Ye - WANG, Jin-Long - WU, Xiao-Guang - YAO, Shun-He. *Investigating the level structure of SUP206/SUPRn: evolution from seniority regime to collective dynamics. In CHINESE PHYSICS C, 2024, vol. 48, no. 11, art. no. 114001. ISSN 1674-1137. Dostupné na: https://doi.org/10.1088/1674-1137/ad666a, Registrované v: WOS*

ADCA269

GRANČIČ, B.** - PLEVA, M. - MIKULA, Marian - ČAPLOVIČOVÁ, M. - SATRAPINSKY, L. - ROCH, T. - TRUCHLÝ, M. - SAHUL, M. - GREGOR, M. - ŠVEC, Peter - ZAHORAN, M. - KÚŠ, P. Stoichiometry, structure and mechanical properties of co-sputtered Ti_{1-x}Ta_xB₂ (+/-) (Delta) coatings. In Surface & Coatings Technology, 2019, vol. 367, p. 341-348. (2018: 3.192 - IF, Q1 - JCR, 0.973 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0257-8972. Dostupné na: <https://doi.org/10.1016/j.surfcoat.2019.04.017>

Citácie:

1. [1.1] SUN, L.L. - LI, H. - WANG, H.Y. - LI, J.L. - HUANG, J.W. - KONG, J. - WU, Q.J. - SHI, Y. - XIONG, D.S. *Effects of Mo target power on the structure and tribological properties of AlB₂ Ta_{1-x}Mo_xB films by magnetron sputtering. In INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS. ISSN 0263-4368, APR 2024, vol. 120. Dostupné na: https://doi.org/10.1016/j.ijrmhm.2024.106623, Registrované v: WOS*

ADCA270

GREENLEES, P.T. - RUBERT, J. - PIOT, J. - GALL, B.J.P. - ANDERSSON, L.L. - ASAI, M. - ASFARI, Z. - COX, D.M. - DECHERY, F. - DORVAUX, O. - GRAHN, T. - HAUSCHILD, K. - HENNING, G. - HERZAN, A. - HERZBERG, R.D. - HESSBERGER, F.P. - JAKOBSSON, U. - JONES, P. - JULIN, R. - JUUTINEN, S. - KETELHUT, S. - KHOO, T.L. - LEINO, M. - LJUNGVALL, J. - LOPEZ-MARTENS, A. - LOZEVA, R. - NIEMINEN, P. - PAKARINEN, J. - PAPADAKIS, P. - PARR, E. - PEURA, P. - RAHKILA, P. - RINTA-ANTILA, S. -

RUOTSALAINEN, P. - SANDZELIUS, M. - SAREN, J. - SCHOLEY, C. - SEWERYNIAK, D. - SORRI, J. - SULIGNANO, B. - THEISEN, Ch. - UUSITALO, J. - VENHART, Martin. Shell-Structure and Pairing Interaction in Superheavy Nuclei: Rotational Properties of the Z=104 Nucleus (256)Rf. In Physical Review Letters, 2012, vol. 109, no. 1, art. no. 012501. (2011: 7.370 - IF, Q1 - JCR, 6.314 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.109.012501>

Citácie:

1. [1.1] GUO, Yuxin - SHI, Yue. Stabilization for deformed superheavy nuclei: A shell correction analysis. In PHYSICAL REVIEW C, 2024, vol. 110, no. 5, art. no. 054314. ISSN 2469-9985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.110.054314>, Registrované v: WOS

2. [1.1] XU, F. F. - WANG, Y. K. - WANG, Y. P. - RING, P. - ZHAO, P. W. Emergence of High-Order Deformation in Rotating Transfermium Nuclei: A Microscopic Understanding. In PHYSICAL REVIEW LETTERS, 2024, vol. 133, no. 2, art. no. 022501. ISSN 0031-9007. Dostupné na:

<https://doi.org/10.1103/PhysRevLett.133.022501>, Registrované v: WOS

3. [1.2] CHENG, An - XU, Chang. Coupled-channels analysis of α -decay fine structure of superheavy nuclei: Deformed doubly magic shell closures. In Physical Review C, 2024-11-01, 110, 5, pp. ISSN 24699985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.110.054317>, Registrované v: SCOPUS

ADCA271 GREENSITE, J. - OLEJNÍK, Štefan. Constituent gluon content of the static quark-antiquark state in Coulomb gauge. In Physical Review D, 2009, vol. 79, no. 11, art. no. 114501. ISSN 1550-7998. Dostupné na:

<https://doi.org/10.1103/PhysRevD.79.114501>

Citácie:

1. [1.1] DAWID, Sebastian M. - SMITH, Wyatt A. - RODAS, Arkaitz - PERRY, Robert J. - FERNANDEZ-RAMIREZ, Cesar - SWANSON, Eric S. - SZCZEPANIAK, Adam P. Coulomb confinement in the Hamiltonian limit. In PHYSICAL REVIEW D, 2024, vol. 110, no. 9, art. no. 094509. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.094509>, Registrované v: WOS

ADCA272 GREENSITE, J. - LANGFELD, K. - OLEJNÍK, Štefan - REINHARDT, H. - TOK, T. Color screening, Casimir scaling, and domain structure in G(2) and SU(N) gauge theories. In Physical Review D, 2007, vol. 75, no. 3, art. no. 034501. (2006: 4.896 - IF, Q1 - JCR, 2.381 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na:

<https://doi.org/10.1103/PhysRevD.75.034501>

Citácie:

1. [1.1] BERGNER, Georg - GAUTAM, Vaibhav - HANADA, Masanori. Color confinement and random matrices. A random walk down group manifold toward Casimir scaling. In JOURNAL OF HIGH ENERGY PHYSICS, 2024, vol., no. 3, art. no. 13. ISSN 1029-8479. Dostupné na:

[https://doi.org/10.1007/JHEP03\(2024\)013](https://doi.org/10.1007/JHEP03(2024)013), Registrované v: WOS

2. [1.1] NEJAD, Seyed Mohsen Hosseini. Influence of center vortex interactions on the static potentials. In PHYSICAL REVIEW D, 2024, vol. 110, no. 11, art. no. 114504. ISSN 2470-0010. Dostupné na:

<https://doi.org/10.1103/PhysRevD.110.114504>, Registrované v: WOS

ADCA273 GREENSITE, J. - OLEJNÍK, Štefan. Dimensional reduction and the Yang-Mills vacuum state in 2+1 dimensions. In Physical Review D, 2008, vol. 77, no. 6, art. no. 065003. (2007: 4.696 - IF, Q1 - JCR, 2.593 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na:

<https://doi.org/10.1103/PhysRevD.77.065003>

Citácie:

1. [1.1] ALEXANDRU, Andrei - BEDAQUE, Paulo F. - CAROSSO, Andrea - CERVIA, Michael J. - MURAIRI, Edison M. - SHENG, Andy. Fuzzy gauge theory for quantum computers. In *PHYSICAL REVIEW D*, 2024, vol. 109, no. 9, art. no. 094502. ISSN 2470-0010. Dostupné na:

<https://doi.org/10.1103/PhysRevD.109.094502>, Registrované v: WOS

- ADCA274 GREENSITE, J. - OLEJNÍK, Štefan. Vortices, symmetry breaking, and temporary confinement in SU(2) gauge-Higgs theory. In *Physical Review D*, 2006, vol. 74, no. 1, art. no. 014502. (2005: 4.852 - IF, Q1 - JCR, 1.833 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: <https://doi.org/10.1103/PhysRevD.74.014502>

Citácie:

1. [1.1] KAMLEH, Waseem - LEINWEBER, Derek B. - VIRGILI, Adam. Numerical indication that center vortices drive dynamical mass generation in QCD. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 5, art. no. L051502. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.L051502>, Registrované v: WOS

- ADCA275 GREENSITE, J. - MATEVOSYAN, H. - OLEJNÍK, Štefan - QUANDT, M. - REINHARDT, H. - SZCZEPANIAK, P. Testing proposals for the Yang-Mills vacuum wavefunctional by measurement of the vacuum. In *Physical Review D*, 2011, vol. 83, no. 11, art. no. 114509. (2010: 4.964 - IF, Q1 - JCR, 2.759 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: <https://doi.org/10.1103/PhysRevD.83.114509>

Citácie:

1. [1.1] MARIANI, A. Almost gauge-invariant states and the ground state of Yang-Mills theory. In *PHYSICAL REVIEW D*, 2024, vol. 109, no. 9, art. no. 094508. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.109.094508>, Registrované v: WOS

- ADCA276 GREENSITE, Jeff - OLEJNÍK, Štefan. Coulomb energy, vortices, and confinement. In *Physical Review D*, 2003, vol. 67, no. 9, art. no. 094503. (2002: 4.358 - IF, karentované - CCC). (2003 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: <https://doi.org/10.1103/PhysRevD.67.094503>

Citácie:

1. [1.1] DAWID, Sebastian M. - SMITH, Wyatt A. - RODAS, Arkaitz - PERRY, Robert J. - FERNANDEZ-RAMIREZ, Cesar - SWANSON, Eric S. - SZCZEPANIAK, Adam P. Coulomb confinement in the Hamiltonian limit. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 9, art. no. 094509. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.094509>, Registrované v: WOS

2. [1.1] KAMLEH, Waseem - LEINWEBER, Derek B. - VIRGILI, Adam. Numerical indication that center vortices drive dynamical mass generation in QCD. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 5, art. no. L051502. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.L051502>, Registrované v: WOS

- ADCA277 GREENSITE, Jeff - OLEJNÍK, Štefan - ZWANZIGER, Daniel. Coulomb energy, remnant symmetry, and the phases of non-Abelian gauge theories. In *Physical Review D*, 2004, vol. 69, no. 7, art. no. 074506. (2003: 4.599 - IF, karentované - CCC). (2004 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: <https://doi.org/10.1103/PhysRevD.69.074506>

Citácie:

1. [1.1] CEA, Paolo. The QCD Vacuum as a Disordered Chromomagnetic

- Condensate. In UNIVERSE, 2024, vol. 10, no. 3, art. no. 111. Dostupné na: <https://doi.org/10.3390/universe10030111>, Registrované v: WOS*
2. [1.2] DAWID, Sebastian M. - SMITH, Wyatt A. - RODAS, Arkaitz - PERRY, Robert J. - FERNÁNDEZ-RAMÍREZ, César - SWANSON, Eric S. - SZCZEPANIAK, Adam P. Coulomb confinement in the Hamiltonian limit. In *Physical Review D*, 2024-11-01, 110, 9, pp. ISSN 24700010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.094509>, Registrované v: SCOPUS
- ADCA278 GREENSITE, Jeff - OLEJNÍK, Štefan - ZWANZIGER, Daniel. Center vortices and the Gribov horizon. In *Journal of High Energy Physics*, 2005, vol., no. 5, art. no. 070. Dostupné na: <https://doi.org/10.1088/1126-6708/2005/05/070>
- Citácie:
1. [1.1] CEA, Paolo. The QCD Vacuum as a Disordered Chromomagnetic Condensate. In *UNIVERSE*, 2024, vol. 10, no. 3, art. no. 111. Dostupné na: <https://doi.org/10.3390/universe10030111>, Registrované v: WOS
2. [1.2] DAWID, Sebastian M. - SMITH, Wyatt A. - RODAS, Arkaitz - PERRY, Robert J. - FERNÁNDEZ-RAMÍREZ, César - SWANSON, Eric S. - SZCZEPANIAK, Adam P. Coulomb confinement in the Hamiltonian limit. In *Physical Review D*, 2024-11-01, 110, 9, pp. ISSN 24700010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.094509>, Registrované v: SCOPUS
- ADCA279 GREGOR, Maroš** - SOBOTA, Róbert - PLECENÍK, T. - ROCH, T. - SATRAPINSKY, Leonid - KAČMARČÍK, Jozef - GIRMAN, Vladimír - ŠVEC, Peter - KUS, Peter - PLECENÍK, Andrej. Enhancement of superconducting properties of MgB₂ thin films by using oxygen annealing atmosphere. In *Applied Surface Science*, 2018, vol. 461, p. 124-132. (2017: 4.439 - IF, Q1 - JCR, 1.093 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2018.06.013>
- Citácie:
1. [1.1] GALAPIA, X.A. - ROSETE, M.M. - SARMAGO, R.V. Enhanced electrophoretic deposition and heat treatment study of MgB₂ superconducting coatings from iodine-stabilized colloidal precursors. In *THIN SOLID FILMS*. ISSN 0040-6090, FEB 29 2024, vol. 791. Dostupné na: <https://doi.org/10.1016/j.tsf.2024.140229>, Registrované v: WOS
- ADCA280 GUESNAY, Quentin - SAHLI, Florent - ARTUK, Kerem - TURKAY, Deniz - KUBA, Austin G. - MRKÝVKOVÁ, Naďa, Tesařová - VÉGSÖ, Karol - ŠIFFALOVÍČ, Peter - SCHREIBER, Frank - LAI, Huagui - FU, Fan - LEDINSKÝ, Martin - FÜRST, Nicolas - SCHAFFLÜTZEL, Aymeric - BUCHER, Cédric - JEANGROS, Quentin - BALLIF, Christophe - WOLFF, Christian M. Pizza Oven Processing of Organohalide Perovskites (POPOP): A Simple, Versatile and Efficient Vapor Deposition Method. In *Advanced Energy Materials*, 2024, vol. 14, no. 10, art. no. 2303423. (2023: 24.4 - IF, Q1 - JCR, 8.748 - SJR, Q1 - SJR). ISSN 1614-6832. Dostupné na: <https://doi.org/10.1002/aenm.202303423>
- Citácie:
1. [1.1] HU, Shenghan - HOU, Peiran - DUAN, Changyu - ZENG, Shuang - DOU, Yichen - DENG, Xinyu - ZHANG, Yuxi - LU, Jianfeng - CHENG, Yi-Bing - PENG, Yong - KU, Zhiliang. Unveiling the role of Cs ion in perovskite phase formation during solid-vapor reactions. In *CHEMICAL ENGINEERING JOURNAL*, 2024, vol. 499, no., art. no. 156259. ISSN 1385-8947. Dostupné na: <https://doi.org/10.1016/j.cej.2024.156259>, Registrované v: WOS
2. [1.1] SOTO-MONTERO, Tatiana - MORALES-MASIS, Monica. Laser Deposition of Metal Halide Perovskites. In *ACS ENERGY LETTERS*, 2024, vol. 9, no. 8, pp. 4199-4208. ISSN 2380-8195. Dostupné na: <https://doi.org/10.1021/acsenenergylett.4c01466>, Registrované v: WOS

3. [1.1] ZHANG, Honggang - CHEN, Kai - KANG, Chengwei - LIU, Haibin. Atomic-scale understanding of microstructural evolution in electrochemical additive manufacturing of metallic nickel. In *MATERIALS & DESIGN*, 2024, vol. 245, no., art. no. 113288. ISSN 0264-1275. Dostupné na: <https://doi.org/10.1016/j.matdes.2024.113288>, Registrované v: WOS

ADCA281

GUPTA, Pooja** - AKHILA, K. J. - SRIHARI, V. - ŠVEC, Peter - KANE, S. R. - RAI, S. K. - GANGULI, Tapas. On the origin of magnetic anisotropy of FeCo(Nb)B alloy thin films: A thermal annealing study. In *Journal of Magnetism and Magnetic Materials*, 2019, vol. 480, p. 64-72. (2018: 2.683 - IF, Q2 - JCR, 0.680 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2019.02.079>

Citácie:

1. [1.1] SINGH, Sharanjeet - BERA, Anup Kumar - GUPTA, Pooja - RANJAN, Mukesh - REDDY, Varimalla R. - CHUMAKOV, Andrei - SCHWARTZKOPF, Matthias - KUMAR, Dileep. Enhanced magnetic anisotropy and its thermal stability in obliquely deposited Co-Film on the nanopatterned substrate. In *APPLIED SURFACE SCIENCE*, 2024, vol. 663, no., art. no. 160154. ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2024.160154>, Registrované v: WOS

2. [1.1] SU, Shuang - ZHAO, Wenjie - SHADANGI, Yagnesh - ZHANG, Jiapeng - NING, Zhiliang - SUN, Jianfei - HUANG, Yongjiang. Preparation, Magnetic and Mechanical Properties of Fe/Ni-Based Amorphous Fibers. In *MATERIALS*, 2024, vol. 17, no. 15, art. no. 3733. Dostupné na: <https://doi.org/10.3390/ma17153733>, Registrované v: WOS

3. [1.1] ZHU, Wenzhong - JIANG, Xiaoqian - CHEN, Chen - WU, Shaojie - CAI, Yongfu - LI, Fushan - WEI, Ran - WANG, Tan. The Effects of Si Substitution with C on the Amorphous Forming Ability, Thermal Stability, and Magnetic Properties of an FeSiBPC Amorphous Alloy. In *METALS*, 2024, vol. 14, no. 5, art. no. 546. Dostupné na: <https://doi.org/10.3390/met14050546>, Registrované v: WOS

ADCA282

HADDADI, Saeed** - HU, Ming-Liang** - KHEDIF, Youssef - DOLATKHAH, Hazhir - POURKARIMI, Mohammad Reza - DAOUD, Mohammed. Measurement uncertainty and dense coding in a two-qubit system: Combined effects of bosonic reservoir and dipole-dipole interaction. In *Results in Physics*, 2022, vol. 32, no. 10, art. no. 105041. (2021: 4.565 - IF, Q2 - JCR, 0.662 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2211-3797. Dostupné na: <https://doi.org/10.1016/j.rinp.2021.105041>

Citácie:

1. [1.1] AIACHE, Y. - SEIDA, C. - EL ANOUZ, K. - EL ALLATI, A. Treatment of non-Markovian effects to investigate non-locality, dense coding and non-local information. In *PHYSICS LETTERS A*, 2024, vol. 496, no., art. no. 129320. ISSN 0375-9601. Dostupné na: <https://doi.org/10.1016/j.physleta.2024.129320>, Registrované v: WOS

2. [1.1] CHLIH, Anas Ait - HABIBALLAH, Nabil - KHATIB, Driss. The relationship between the degree of violation of Bell-CHSH inequality and measurement uncertainty in two classes of spin squeezing mechanisms. In *INTERNATIONAL JOURNAL OF MODERN PHYSICS B*, 2024, vol. 38, no. 23. ISSN 0217-9792. Dostupné na: <https://doi.org/10.1142/S0217979224503107>, Registrované v: WOS

3. [1.1] GHIASI, Pouyan - GHORBANI, Somayyeh - HOSSEINY, Seyed Mohammad - NOROUZI, Milad - MOHEBBI, Razie - SEYED-YAZDI, Jamileh. Quantum dense coding in two-qubit anisotropic XY Heisenberg model with Herring-Flicker coupling. In *APPLIED PHYSICS B-LASERS AND OPTICS*,

2024, vol. 130, no. 12, art. no. 219. ISSN 0946-2171. Dostupné na: <https://doi.org/10.1007/s00340-024-08346-2>, Registrované v: WOS

4. [1.1] HADIPOUR, Maryam - HASELI, Soroush - WANG, Dong - HADDADI, Saeed. Proposed Scheme for a Cavity-Based Quantum Battery. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 11. Dostupné na: <https://doi.org/10.1002/qute.202400115>, Registrované v: WOS

5. [1.1] HOSSEINY, Seyed Mohammad - SEYED-YAZDI, Jamileh - NOROUZI, Milad. Faithful quantum teleportation through common and independent qubit-noise configurations and multi-parameter estimation in the output of teleported state. In *AVS QUANTUM SCIENCE*, 2024, vol. 6, no. 1, art. no. 014405. Dostupné na: <https://doi.org/10.1116/5.0189752>, Registrované v: WOS

6. [1.1] HOSSEINY, Seyed Mohammad. Quantum dense coding and teleportation based on two coupled quantum dot molecules influenced by intrinsic decoherence, tunneling rates, and Coulomb coupling interaction. In *APPLIED PHYSICS B-LASERS AND OPTICS*, 2024, vol. 130, no. 1, art. no. 8. ISSN 0946-2171. Dostupné na: <https://doi.org/10.1007/s00340-023-08130-8>, Registrované v: WOS

7. [1.1] SINGH, Deepak - KUMAR, Sanjeev. Enhancing the fidelity of controlled cyclic teleportation via quantum weak measurement techniques to combat the decoherence due to amplitude damping. In *INTERNATIONAL JOURNAL OF QUANTUM INFORMATION*, 2024, vol. 22, no. 04. ISSN 0219-7499. Dostupné na: <https://doi.org/10.1142/S021974992350051X>, Registrované v: WOS

8. [1.1] XIE, Yu-Xia - SUN, Yu-Hang. Preserving steered coherence in bosonic reservoirs via auxiliary qubits and frequency detuning. In *PHYSICS LETTERS A*, 2024, vol. 525, no., art. no. 129851. ISSN 0375-9601. Dostupné na: <https://doi.org/10.1016/j.physleta.2024.129851>, Registrované v: WOS

9. [1.1] ZHANG, Zuo-Yuan - FANG, Yu-Yan - LI, Jin-Fang - HU, Jie-Ru - LIU, Jin-Ming - SUN, Zhaoxi - HUANG, Xinning. Entropic uncertainty relation and entanglement of molecular dipoles in an electric field. In *CHAOS SOLITONS & FRACTALS*, 2024, vol. 186, no., art. no. 115220. ISSN 0960-0779. Dostupné na: <https://doi.org/10.1016/j.chaos.2024.115220>, Registrované v: WOS

ADCA283 HADIPOUR, Maryam - HASELI, Soroush** - DOLATKHAH, Hazhir - RASHIDI, Maryam. Study the charging process of moving quantum batteries inside cavity. In *Scientific Reports*, 2023, vol. 13, no. 1, art. no. 10672. (2022: 4.6 - IF, Q2 - JCR, 0.973 - SJR, Q1 - SJR). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-023-37800-y>

Citácie:

1. [1.1] ALI, Asad - AL-KUWARI, Saif - HUSSAIN, M. I. - BYRNES, Tim - RAHIM, M. T. - QUACH, James Q. - GHOMINEJAD, Mehrdad - HADDADI, Saeed. Ergotropy and capacity optimization in Heisenberg spin-chain quantum batteries. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 5, art. no. 052404. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.052404>, Registrované v: WOS
2. [1.1] MOJAVERI, B. - BAHREBEIG, R. Jafarzadeh - FASIHI, M. A. Charging a quantum battery mediated by parity-deformed fields. In *PHYSICAL REVIEW E*, 2024, vol. 110, no. 6, art. no. 064107. ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.110.064107>, Registrované v: WOS
3. [1.1] YU, Jiale - WANG, Shiyu - LIU, Kangqiao - ZHA, Chen - WU, Yulin - CHEN, Fusheng - YE, Yangsen - LI, Shaowei - ZHU, Qingling - GUO, Shaojun - QIAN, Haoran - HUANG, He-Liang - ZHAO, Youwei - YING, Chong - FAN, Daojin - WU, Dachao - SU, Hong - DENG, Hui - RONG, Hao - ZHANG, Kaili - CAO, Sirui - LIN, Jin - XU, Yu - GUO, Cheng - LI, Na - LIANG, Futian - WU, Gang - HUO, Yong-Heng - LU, Chao-Yang - PENG, Cheng-Zhi - NEMOTO, Kae

- MUNRO, W. J. - ZHU, Xiaobo - PAN, Jian-Wei - GONG, Ming. *Experimental demonstration of a Maxwell's demon quantum battery in a superconducting noisy intermediate-scale quantum processor*. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 6, art. no. 062614. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.062614>, Registrované v: WOS
- ADCA284 HAFNER, J. - KRAJČÍ, Marián. Electronic-structure and stability of quasi-crystals-quasi-periodic dispersion- relations and pseudogaps. In *Physical Review Letters*, 1992, vol. 68, no. 15, p. 2321-2324. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.68.2321>
Citácie:
1. [1.1] SANDBERG, Anna - AWOGA, Oladunjoye A. - BLACK-SCHAFFER, Annica M. - HOLMVAL, Patric. *Josephson effect in a Fibonacci quasicrystal*. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 10, art. no. 104513. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.104513>, Registrované v: WOS
2. [1.1] YANG, Jieyu - CEN, Weifu - TIAN, Zean. *Effect of biaxial strain on the electronic structure and optical properties of two-dimensional Bi2Te2S*. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 8, art. no. 085927. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad56cc>, Registrované v: WOS
- ADCA285 HAFNER, J. - KRAJČÍ, Marián. Surfaces of complex intermetallic compounds: Insights from density functional calculations. In *Accounts of Chemical research*, 2014, vol. 47, no. 11, p. 3378-3384. (2013: 24.348 - IF, Q1 - JCR, 10.742 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0001-4842. Dostupné na: <https://doi.org/10.1021/ar500043z>
Citácie:
1. [1.1] HE, Zhengda - OUYANG, Bin. *Charting the electronic structure for discovering low-cost intermetallic catalysts*. In *JOURNAL OF MATERIALS CHEMISTRY A*, 2024, vol. 12, no. 33, pp. 21987-21996. ISSN 2050-7488. Dostupné na: <https://doi.org/10.1039/d4ta03880k>, Registrované v: WOS
- ADCA286 HAGARA, Jakub - MRKÝVKOVÁ, Nad'a, Tesařová** - NÁDAŽDY, Peter - HODAS, Martin - BODIK, Michal - JERGEL, Matej - MAJKOVÁ, Eva - TOKÁR, Kamil - HUTÁR, Peter - SOJKOVÁ, Michaela - CHUMAKOV, A. - KONOVALOV, O. - PANDIT, P. - ROTH, S. - HINDERHOFER, A. - HULMAN, Martin - ŠIFFALOVÍČ, Peter - SCHREIBER, F. Reorientation of π -conjugated molecules on few-layer MoS2 films. In *Physical Chemistry Chemical Physics*, 2020, vol. 22, no. 5, p. 3097-3104. (2019: 3.430 - IF, Q1 - JCR, 1.143 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/c9cp05728e>
Citácie:
1. [1.1] DEMCHENKO, Hanna - FYNBO, Cecilie - HUSS-HANSEN, Mathias K. - KJELSTRUP-HANSEN, Jakob - KNAAPILA, Matti. *Naphthyl end-capped bithiophene film on plant-based polyamide-4,10*. In *THIN SOLID FILMS*, 2024, vol. 788, no., art. no. 140170. ISSN 0040-6090. Dostupné na: <https://doi.org/10.1016/j.tsf.2023.140170>, Registrované v: WOS
- ADCA287 HALLGREN, S. - NAGAJ, Daniel - NARAYANASWAMI, S. The local Hamiltonian problem on a line with eight states is QMA-complete. In *Quantum Information and Computation*, 2013, vol. 13, no. 9-10, p. 721-750. (2012: 1.646 - IF, Q1 - JCR, 1.082 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1533-7146.
Citácie:
1. [1.1] HARLEY, Dylan - DATTA, Ishaun - KLAUSEN, Frederik Ravn - BLUHM, Andreas - FRANCA, Daniel Stilck - WERNER, Albert H. - CHRISTANDL,

Matthias. *Going beyond gadgets: the importance of scalability for analogue quantum simulators*. In *NATURE COMMUNICATIONS*, 2024, vol. 15, no. 1, art. no. 6527. Dostupné na: <https://doi.org/10.1038/s41467-024-50744-9>, Registrované v: WOS

2. [1.1] IWAKI, Atsushi - HOTTA, Chisa. *Sample complexity of matrix product states at finite temperature*. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 22, art. no. 224410. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.109.224410>, Registrované v: WOS

ADCA288 HAMILTON, J.H. - RAMAYYA, A.V. - KORMICKI, J. - MA, W.C. - LU, Q. - SHI, D. - DENG, J.K. - ZHU, S.J. - SADULESCU, A. - GREINER, W. - TERAKOPIAN, G.M. - OGANESSIAN, Y.T. - POPEKO, G.S. - DANIEL, A.V. - KLIMAN, Ján - POLHORSKÝ, V. - MORHÁČ, Miroslav - COLE, J.D. - ARYAEINEJAD, R. - LEE, I.Y. - JOHNSON, J.R. - MCGOWAN, F.K. *Zero neutron emission in spontaneous fission of CF-252- a form of cluster radioactivity*. In *Journal of Physics G*, 1994, vol. 20, no. 8, p. L85-L89. ISSN 0954-3899. Dostupné na: <https://doi.org/10.1088/0954-3899/20/8/003>

Citácie:

1. [1.1] ASHADUZZAMAN, Md - DI NITTO, Antonio - VARDACI, Emanuele - LA RANA, Giovanni - SETARO, Pia Antonella - BANERJEE, Tathagata - VANZANELLA, Antonio - ALIFANO, Giuseppe. *Search for True Ternary Fission in Reaction SUP40/SUPAr+SUP208/SUPPb*. In *APPLIED SCIENCES-BASEL*, 2024, vol. 14, no. 18, art. no. 8522. Dostupné na:

<https://doi.org/10.3390/app14188522>, Registrované v: WOS

2. [1.1] JINDAL, Chahat - SHARMA, Manoj K. *Role of deformations and orientation effects in binary and ternary decay of the 252 Cf nucleus*. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 5, art. no. 054607. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.054607>, Registrované v: WOS

ADCA289 HANGLEITER, Dominik** - ROTH, Ingo - NAGAJ, Daniel - EISERT, Jens. *Easing the Monte Carlo sign problem*. In *Science Advances*, 2020, vol. 6, no. 33, art. no. eabb8341. (2019: 13.117 - IF, Q1 - JCR, 6.062 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.abb8341>

Citácie:

1. [1.1] ALVESTAD, Daniel - ROTHKOPF, Alexander - SEXTY, Denes. *Lattice real-time simulations with learned optimal kernels*. In *PHYSICAL REVIEW D*, 2024, vol. 109, no. 3, art. no. L031502. ISSN 2470-0010. Dostupné na:

<https://doi.org/10.1103/PhysRevD.109.L031502>, Registrované v: WOS

2. [1.1] CHANG, Wei-Xuan - LI, Zi-Xiang. *Boosting quantum Monte Carlo and alleviating sign problem by Gutzwiller projection*. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 8, art. no. 085152. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.110.085152>, Registrované v: WOS

3. [1.1] KARL';OVA, Katarina - HONECKER, Andreas - CACI, Nils - WESSEL, Stefan - STRECKA, Jozef - VERKHOLYAK, Taras. *Thermodynamic properties of the macroscopically degenerate tetramer-dimer phase of the spin-12 Heisenberg model on the diamond-decorated square lattice*. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 21, art. no. 214429. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.110.214429>, Registrované v: WOS

4. [1.1] KLICZKOWSKI, Maksymilian - KEYES, Lauren - ROY, Sayantan - PAIVA, Thereza - RANDERIA, Mohit - TRIVEDI, Nandini - MASKA, Maciej M. *Autoencoder-based analytic continuation method for strongly correlated quantum systems*. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 11, art. no. 115119. ISSN

2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.115119>,
Registrované v: WOS

5. [1.1] KULAHLIOGLU, Adem Halil - DREUW, Andreas. Dense-sparse quantum Monte Carlo algebraic diagrammatic construction and importance ranking. In JOURNAL OF CHEMICAL PHYSICS, 2024, vol. 160, no. 20, art. no. 204111. ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/5.0209137>, Registrované v: WOS

6. [1.1] LIN, He-Yu - GUO, Yibin - HE, Rong-Qiang - XIE, Z. Y. - LU, Zhong-Yi. Green's function Monte Carlo combined with projected entangled pair state approach to the frustrated J1- J2 Heisenberg model. In PHYSICAL REVIEW B, 2024, vol. 109, no. 23, art. no. 235133. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.235133>, Registrované v: WOS

7. [1.1] LIU, Yi-Kai - MOODY, Dustin. Post-quantum cryptography and the quantum future of cybersecurity. In PHYSICAL REVIEW APPLIED, 2024, vol. 21, no. 4, art. no. 040501. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.21.040501>, Registrované v: WOS

8. [1.1] MA, Nvsen - SUN, Jun-Song - PAN, Gaopei - CHENG, Chen - YAN, Zheng. Defining a universal sign to strictly probe a phase transition. In PHYSICAL REVIEW B, 2024, vol. 110, no. 12, art. no. 125141. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.125141>, Registrované v: WOS

9. [1.2] MA, Tianxing - GUO, Ting - HUANG, Zhongbing - LIN, Haiqing. Quantum Monte Carlo and Its Applications in Condensed and Warm Dense Matters. In Jisuan Wuli Chinese Journal of Computational Physics, 2024-11-01, 41, 6, pp. 701-716. ISSN 1001246X. Dostupné na: <https://doi.org/10.19596/j.cnki.1001-246x.8974>, Registrované v: SCOPUS

10. [1.2] PAN, Gaopei - MENG, Zi Yang. The sign problem in quantum Monte Carlo simulations. In Encyclopedia of Condensed Matter Physics, 2024-01-01, pp. V1-893. ISBN [9780323914086, 9780323908009]. Dostupné na: <https://doi.org/10.1016/B978-0-323-90800-9.00095-0>, Registrované v: SCOPUS

ADCA290 HARINDRANATH, A. - MARTINOVIČ, Lubomír - VARY, J.P. Compactification near and on the light front Compactification near and on the light front. In Physical Review D, 2000, vol. 62, no. 10, art. no. 105015. (1999: 3.695 - IF, karentované - CCC). (2000 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: <https://doi.org/10.1103/PhysRevD.62.105015>

Citácie:

1. [1.1] CAO, Xianghui - XU, Siqi - LI, Yang - CHEN, Guangyao - ZHAO, Xingbo - KARMANOV, V. A. - VARY, J. P. Energy momentum tensor on and off the light cone: exposition with scalar Yukawa theory. In JOURNAL OF HIGH ENERGY PHYSICS, 2024, vol., no. 7, art. no. 95. ISSN 1029-8479. Dostupné na: [https://doi.org/10.1007/JHEP07\(2024\)095](https://doi.org/10.1007/JHEP07(2024)095), Registrované v: WOS

ADCA291 HARTMANOVÁ, Mária - LOMONOVA, E.E. - KUBEL, F. - SCHNEIDER, J. - BURŠÍKOVÁ, V. - JERSEL, Matej - NAVRÁTIL, V. - KUNDRACIK, F. Relationship between effective ionic radii, structure and electro-mechanical properties of zirconia stabilized with rare earth oxides M2O3 (M = Yb, Y, Sm). In Journal of Material Science, 2009, vol. 44, no. 1, p. 234-243. Dostupné na: <https://doi.org/10.1007/s10853-008-3085-0>

Citácie:

1. [1.1] DANILENKO, Igor - GORBAN, Oksana - SHYLO, Artem - AKHKOZOV, Leonid - GORBAN, Sergii - LASKO, Galina - MYSOVETS, Viacheslav. Determination of the nature of the co-doping effect on the structure, mechanical properties and ionic conductivity of SOFC electrolyte based on YSZ. In SOLID

- STATE IONICS, 2024, vol. 412, no., art. no. 116581. ISSN 0167-2738. Dostupné na: <https://doi.org/10.1016/j.ssi.2024.116581>, Registrované v: WOS
- ADCA292 HARTMANOVÁ, Mária - GMUCOVÁ, Katarína - THURZO, Ilja. Dielectric properties of ceria and yttria-stabilized zirconia thin films grown on silicon substrates. In Solid State Ionics, 2000, vol. 130, no. 1-2, p. 105-110. (2000 - Current Contents). ISSN 0167-2738. Dostupné na: [https://doi.org/10.1016/S0167-2738\(00\)00285-X](https://doi.org/10.1016/S0167-2738(00)00285-X)
- Citácie:
1. [1.1] KABIR, Ahsanul - TINTI, Victor Buratto - SANTUCCI, Simone - VARENIK, Maxim - GRIFFITHS, Samuel - MOLIN, Sebastian - LUBOMIRSKY, Igor - ESPOSITO, Vincenzo. Non-classical electrostriction in calcium-doped cerium oxide ceramics. In JOURNAL OF MATERIALS CHEMISTRY A, 2024, vol. 12, no. 15, pp. 9173-9183. ISSN 2050-7488. Dostupné na: <https://doi.org/10.1039/d3ta07512e>, Registrované v: WOS
- ADCA293 HARTMANOVÁ, Mária - MORHACOVA, E. - TRAVĚNEC, Igor - URUSOVSKAYA, A. A. - KNAB, G. G. - KOROBKOV, I. I. Defect structure and physical-properties of Y2O3. In Solid State Ionics : diffusion and reactions, 1989, vol. 36, no. 3-4, p. 137-142. ISSN 0167-2738. Dostupné na: [https://doi.org/10.1016/0167-2738\(89\)90157-4](https://doi.org/10.1016/0167-2738(89)90157-4)
- Citácie:
1. [1.1] FAN, Qianwenhao - TAN, Mingwu - YAO, Bingqing - SAQLINE, Syed - TAO, Longgang - HE, Qian - LIU, Wen. Synthesis of uniform Fe2O3@Y2O3 yolk-shell nanoreactors as chemical looping oxygen carriers. In APPLIED CATALYSIS B-ENVIRONMENT AND ENERGY, 2024, vol. 350, no., art. no. 123935. ISSN 0926-3373. Dostupné na: <https://doi.org/10.1016/j.apcatb.2024.123935>, Registrované v: WOS
- ADCA294 HARTMANOVÁ, Mária - TRAVĚNEC, Igor - URUSOVSKAYA, A.A. - PUTYERA, K. - TUNEGA, D. - KOROBKOV, I.I. The influence of tungsten on the oxygen sublattice in yttria-stabilized zirconia (YSZ). In Solid State Ionics, 1995, vol. 76, no. 3-4, p. 207-214. (1994: 1.090 - IF, karentované - CCC). (1995 - Current Contents). ISSN 0167-2738. Dostupné na: [https://doi.org/10.1016/0167-2738\(94\)00283-X](https://doi.org/10.1016/0167-2738(94)00283-X)
- Citácie:
1. [1.1] MOMIN, Naeemakhtar - MANJANNA, J. - KOBAYASHI, Satoru - ARUNA, S. T. - KUMAR, S. Senthil - AHMAD, Tokeer - NAYAKA, G. P. - MUBEEN, B. - SABALE, Sandip - KANGRALKARI, Mrunal V. - KERI, Rangappa S. Reconstituting the microstructural properties and ionic conductivity of copper doped yttria-stabilized zirconia via mechanochemical synthesis for intermediate-temperature solid oxide fuel cell applications. In CERAMICS INTERNATIONAL, 2024, vol. 50, no. 19, pp. 35178-35192. ISSN 0272-8842. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.06.326>, Registrované v: WOS
2. [1.1] MOMIN, Naeemakhtar - MANJANNA, J. - KOBAYASHI, Satoru - ARUNA, S. T. - KUMAR, S. Senthil - SABALE, Sandip - KERI, Rangappa S. Enhanced sinterability and conductivity insights of Nb2O5-Doped 8 mol% yttria-stabilized zirconia: Implications for low-temperature ceramic electrolytes. In CERAMICS INTERNATIONAL, 2024, vol. 50, no. 22, pp. 48222-48233. ISSN 0272-8842. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.09.172>, Registrované v: WOS
- ADCA295 HASSAN IBRAHIM, Ahmed Mohamed - BALOG, Martin** - KRÍŽIK, Peter - NOVY, Frantisek - CETIN, Yuksel - ŠVEC, Peter Jr. - BAJANA, Otto - DRIENOVSKY, Marian. Partially biodegradable Ti-based composites for biomedical applications subjected to intense and cyclic loading. In Journal of Alloys and

Compounds, 2020, vol. 839, art. no. 155663. (2019: 4.650 - IF, Q1 - JCR, 0.736 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2020.155663>

Citácie:

1. [1.1] CHU, P.W. - FAN, C.W. - YANG, C.H. Corrosion behavior and microstructure of the surface corrosion film of biodegradable WE43 and ZX21 Mg alloys in Hanks'; balanced salt solution. In MATERIALS CHEMISTRY AND PHYSICS. ISSN 0254-0584, JAN 15 2024, vol. 312. Dostupné na:

<https://doi.org/10.1016/j.matchemphys.2023.128609>, Registrované v: WOS

2. [1.1] HAN, X. - ZHOU, L.X. - LIU, Z.Q. - ZHANG, S. - WANG, Q.C. - LU, X.P. - ABUEIDA, M.R.I. - WANG, Q. - ZHANG, Z.F. - ZHANG, D. Degradation behavior of biomedical partially degradable Ti-Mg composite fabricated by 3D printing and pressureless infiltration. In JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T. ISSN 2238-7854, MAR-APR 2024, vol. 29, p. 3192-3204. Dostupné na: <https://doi.org/10.1016/j.jmrt.2024.02.059>,

Registrované v: WOS

3. [1.1] SHUAI, C.J. - ZHAO, Y. - DENG, Y.W. - GAO, C.D. Heterogeneous grain structure in biodegradable Zn prepared via mechanical alloying and laser powder bed fusion for strength-plasticity synergy. In VIRTUAL AND PHYSICAL PROTOTYPING. ISSN 1745-2759, DEC 31 2024, vol. 19, no. 1. Dostupné na:

<https://doi.org/10.1080/17452759.2024.2317780>, Registrované v: WOS

ADCA296 HAVUKAINEN, M. - DROBNÝ, Gabriel - STENHOLM, S. - BUŽEK, Vladimír. Quantum simulations of optical systems. In Journal of Modern Optics, 1999, vol. 46, no. 9, p. 1343-1367. (1999 - Current Contents). ISSN 0950-0340.

Citácie:

1. [1.1] OBA, Junpei - KAJITA, Seiji - SOEDA, Akihito. Fast simulation for multi-photon, atomic-ensemble quantum model of linear optical systems addressing the curse of dimensionality. In SCIENTIFIC REPORTS, 2024, vol. 14, no. 1, art. no. 3208. ISSN 2045-2322. Dostupné na: [https://doi.org/10.1038/s41598-024-53246-](https://doi.org/10.1038/s41598-024-53246-2)

2, Registrované v: WOS

ADCA297 HECZKO, Oleg - ŠVEC, Peter - JANIČKOVIČ, Dušan - ULLAKKO, Kari. Magnetic Properties of Ni-Mn-Ga ribbon prepared by rapid solidification. In IEEE Transactions on Magnetics, 2002, vol. 38, no. 5, p. 2841-2843. ISSN 0018-9464. Dostupné na: <https://doi.org/10.1109/TMAG.2002.802471>

Citácie:

1. [1.2] RODRIGUEZ DE VECCHIS, Pierangeli - CHMIELUS, Markus. Additive manufacturing of magnetic shape memory alloys. In Additive Manufacturing of Shape Memory Materials Techniques Characterization Modeling and Applications, 2024-01-01, pp. 159-204. ISBN [9780443295959, 9780443295942]. Dostupné na: <https://doi.org/10.1016/B978-0-443-29594-2.00007-9>, Registrované

v: SCOPUS

ADCA298 HEGEDUS, Michal** - BALÁŽ, Matej - TEŠINSKÝ, Matej - SAYAGUÉS, Mária Jesús - ŠIFFALOVIČ, Peter - BALI HUDÁKOVÁ, Mária - KAŇUCHOVÁ, Mária - BRIANČIN, Jaroslav - FABIÁN, Martin - BALÁŽ, Peter. Scalable synthesis of potential solar cell absorber Cu₂SnS₃ (CTS) from nanoprecursors. In Journal of Alloys and Compounds, 2018, vol. 768, p. 1006-1015. (2017: 3.779 - IF, Q1 - JCR, 1.020 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na:

<https://doi.org/10.1016/j.jallcom.2018.07.284>

Citácie:

1. [1.1] GÜNDOĞDU, Y. - HOUIMI, A. - GEZGİN, S.Y. - KILIÇ, H.S. Tuning the Nonlinear Optical Properties of Cu₂SnS₃ Nanoparticles Using Alkali Ions

Doping. In PLASMONICS. ISSN 1557-1955, DEC 2024, vol. 19, no. 6, p. 2923-2934. Dostupné na: <https://doi.org/10.1007/s11468-023-02189-x>, Registrované v: WOS

2. [1.1] RAVAL, J. - SHAH, B.M. - KUMAR, D. - CHAKI, S.H. - DESHPANDE, M.P. Recent developments and prospects of copper tin sulphide (Cu₂SnS₃) thin films for photovoltaic applications. In CHEMICAL ENGINEERING SCIENCE. ISSN 0009-2509, APR 5 2024, vol. 287. Dostupné na: <https://doi.org/10.1016/j.ces.2024.119728>, Registrované v: WOS

3. [1.1] RAVAL, Jolly B. - CHAKI, Sunil H. - PATEL, Sefali R. - GIRI, Ranjan Kr. - SOLANKI, Mitesh B. - DESHPANDE, Milind P. Direct vapour transport grown Cu₂SnS₃ crystals: exploring structural, elastic, optical, and electronic properties. In RSC ADVANCES, 2024, vol. 14, no. 39, pp. 28401-28414. Dostupné na: <https://doi.org/10.1039/d4ra04344h>, Registrované v: WOS

ADCA299 HEINOSAARI, T. - STAÑO, Peter - REITZNER, Daniel. Approximate joint measurability of spin along two directions. In International Journal Quantum Information, 2008, vol. 6, no. 5, p. 975-980. ISSN 0219-7499. Dostupné na: <https://doi.org/10.1142/S0219749908004365>

Citácie:

1. [1.1] BHATTACHARJEE, Suvrajit - GOSWAMI, Debashish. COMPLEX STRUCTURES ON THREE-POINT SPACE. In INFINITE DIMENSIONAL ANALYSIS, QUANTUM PROBABILITY AND RELATED TOPICS, IDAQP 2024 : 38th international workshop of Infinite Dimensional Analysis and Quantum Probability and Related Topics (IDAQ), 2024, vol., no., pp. 77-101. ISSN 1793-5121., Registrované v: WOS

ADCA300 HEINOSAARI, T. - REITZNER, Daniel - STAÑO, Peter. Notes on joint measurability of quantum observables. In Foundations of Physics, 2008, vol. 38, no. 12, p. 1133-1147. (2007: 0.951 - IF, Q3 - JCR, 0.622 - SJR, Q2 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0015-9018. Dostupné na: <https://doi.org/10.1007/s10701-008-9256-7>

Citácie:

1. [1.1] JI, Kaiyuan - CHITAMBAR, Eric. Incompatibility as a Resource for Programmable Quantum Instruments. In PRX QUANTUM, 2024, vol. 5, no. 1, art. no. 010340. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.010340>, Registrované v: WOS

2. [1.1] LEPPAJARVI, Leevi - SEDLAK, Michal. Incompatibility of quantum instruments. In QUANTUM, 2024, vol. 8, no., art. no. 1246. ISSN 2521-327X., Registrované v: WOS

3. [1.1] MASINI, Michele - IOANNOU, Marie - BRUNNER, Nicolas - PIRONIO, Stefano - SEKATSKI, Pavel. Joint-measurability and quantum communication with untrusted devices. In QUANTUM, 2024, vol. 8, no., art. no. 1574. ISSN 2521-327X., Registrované v: WOS

4. [1.1] OHST, Ties-A - PLAVALA, Martin. Symmetries and Wigner representations of operational theories. In JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, 2024, vol. 57, no. 43, art. no. 435306. ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/ad8198>, Registrované v: WOS

5. [1.1] VEEREN, Isadora - PLAVALA, Martin - LEPPAJARVI, Leevi - UOLA, Roope. Semi-device-independent certification of the number of measurements. In PHYSICAL REVIEW A, 2024, vol. 109, no. 6, art. no. 062203. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.062203>, Registrované v: WOS

6. [1.1] YADAVALLI, Shiv Akshar - ANDREJIC, Nikola - KUNJWAL, Ravi.

Qualitative equivalence between incompatibility and Bell nonlocality. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 6, art. no. L060201. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.L060201>, Registrované v: WOS

7. [1.1] ZHANG, Xiaolin - QU, Rui - CHANG, Zehong - WANG, Yunlong - GUO, Zhenyu - AN, Min - GAO, Hong - LI, Fuli - ZHANG, Pei. Witnessing Quantum Incompatibility Structures in High-Dimensional Multimeasurement Systems. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 19, art. no. 190202. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.190202>, Registrované v: WOS

ADCA301 HEINOSAARI, T. - MIYADERA, T. - ZIMAN, Mário. An invitation to quantum incompatibility. In *Journal of Physics A: Mathematical and Theoretical*, 2016, vol. 49, no. 12, art. no. 123001. (2015: 1.933 - IF, Q1 - JCR, 1.028 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8113/49/12/123001>

Citácie:

1. [1.1] CAETANO, R. A. - ANGELO, R. M. Quantum violations of joint reality. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 3, art. no. 032214. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.032214>, Registrované v: WOS

2. [1.1] FERRETTI, Hugo - YILMAZ, Y. Batuhan - BONSMAN-FISHER, Kent - GOLDBERG, Aaron Z. - LUPU-GLADSTEIN, Noah - PANG, Arthur O. T. - ROZEMA, Lee A. - STEINBERG, Aephraim M. Generating a 4-photon tetrahedron state: toward simultaneous super-sensitivity to non-commuting rotations. In *OPTICA QUANTUM*, 2024, vol. 2, no. 2, pp. 91-102. Dostupné na: <https://doi.org/10.1364/OPTICAQ.510125>, Registrované v: WOS

3. [1.1] GIRLING, Matthew - CIRSTOIU, Cristina - JENNINGS, David. Simple formulation of no-cloning and no-hiding that admits efficient and robust verification. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 2, art. no. 023090. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.023090>, Registrované v: WOS

4. [1.1] GUO, Yi - LUO, Shunlong. Quantifying incompatibility between positive operator-valued measures via negativity of the Jordan product. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 6, art. no. 062206. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.062206>, Registrované v: WOS

5. [1.1] HERVAS, J. R. - SANCHEZ-SOTO, L. L. - GOLDBERG, A. Z. - HRADIL, Z. - REHACEK, J. Optimizing measurement tradeoffs in multiparameter spatial superresolution. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 3, art. no. 033716. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.033716>, Registrované v: WOS

6. [1.1] HSIEH, Chung-Yun - CHEN, Shin-Liang. Thermodynamic Approach to Quantifying Incompatible Instruments. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 17, art. no. 170401. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.170401>, Registrované v: WOS

7. [1.1] HUANG, Shan - YIN, Hua-Lei - CHEN, Zeng-Bing - WU, Shengjun. Entropic uncertainty relations for multiple measurements assigned with biased weights. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 1, art. no. 013127. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.013127>, Registrované v: WOS

8. [1.1] JAYAKUMAR, Jayanth - MYCROFT, Monika E. - BARBIERI, Marco - STOBINSKA, Magdalena. Quantum-enhanced joint estimation of phase and phase diffusion. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 7, art. no. 073016.

ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad5eb0>,
Registrované v: WOS

9. [1.1] JI, Kaiyuan - CHITAMBAR, Eric. Incompatibility as a Resource for Programmable Quantum Instruments. In *PRX QUANTUM*, 2024, vol. 5, no. 1, art. no. 010340. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.010340>,
Registrované v: WOS

10. [1.1] JOKINEN, Pauli - WEILENMANN, Mirjam - PLAVALA, Martin - PELLONPAA, Juha-Pekka - KIUKAS, Jukka - UOLA, Roope. No-Broadcasting Characterizes Operational Contextuality. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 24, art. no. 240201. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.240201>, Registrované v: WOS

11. [1.1] JONES, Benjamin D. M. - LINDEN, Noah - SKRZYPCZYK, Paul. The Hadamard gate cannot be replaced by a resource state in universal quantum computation. In *QUANTUM*, 2024, vol. 8, no., art. no. 1470. ISSN 2521-327X.,
Registrované v: WOS

12. [1.1] LEPPAJARVI, Leevi - SEDLAK, Michal. Incompatibility of quantum instruments. In *QUANTUM*, 2024, vol. 8, no., art. no. 1246. ISSN 2521-327X.,
Registrované v: WOS

13. [1.1] LIU, Yaochen - LI, Qiuchi - WANG, Benyou - ZHANG, Yazhou - SONG, Dawei. A Survey of Quantum-cognitively Inspired Sentiment Analysis Models. In *ACM COMPUTING SURVEYS*, 2024, vol. 56, no. 1, art. no. 15. ISSN 0360-0300. Dostupné na: <https://doi.org/10.1145/3604550>, Registrované v: WOS

14. [1.1] LOBO, Edwin Peter - PAUWELS, Jef - PIRONIO, Stefano. Certifying long-range quantum correlations through routed Bell tests. In *QUANTUM*, 2024, vol. 8, no., pp. 1-36. ISSN 2521-327X., Registrované v: WOS

15. [1.1] MASINI, Michele - IOANNOU, Marie - BRUNNER, Nicolas - PIRONIO, Stefano - SEKATSKI, Pavel. Joint-measurability and quantum communication with untrusted devices. In *QUANTUM*, 2024, vol. 8, no., art. no. 1574. ISSN 2521-327X., Registrované v: WOS

16. [1.1] MIHAILESCU, George - BAYAT, Abolfazl - CAMPBELL, Steve - MITCHELL, Andrew K. Multiparameter critical quantum metrology with impurity probes. In *QUANTUM SCIENCE AND TECHNOLOGY*, 2024, vol. 9, no. 3, art. no. 035033. ISSN 2058-9565. Dostupné na: <https://doi.org/10.1088/2058-9565/ad438d>, Registrované v: WOS

17. [1.1] MITRA, Arindam - SAHA, Debashis - BHATTACHARYA, Samyadeb - MAJUMDAR, A. S. Relating completely positive divisibility of dynamical maps with compatibility of channels. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 6, art. no. 062213. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.062213>, Registrované v: WOS

18. [1.1] MUKHERJEE, Sumit - PAN, A. K. Constrained measurement incompatibility from generalised contextuality of steered preparation. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 12, art. no. 123014. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad96d8>, Registrované v: WOS

19. [1.1] OHST, Ties-A - PLAVALA, Martin. Symmetries and Wigner representations of operational theories. In *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, 2024, vol. 57, no. 43, art. no. 435306. ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/ad8198>, Registrované v: WOS

20. [1.1] PAUL, Rajdeep - SASMAL, Souradeep - PAN, A. K. Self-testing of multiple unsharpness parameters through sequential violations of a noncontextual inequality. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 1, art. no. 012444. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.012444>,

Registrované v: WOS

21. [1.1] RAGINI, Nidhin Sudarsanan - SAZIM, Sk. Higher-order incompatibility improves distinguishability of causal quantum networks. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 12, art. no. 123003. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad93f6>, Registrované v: WOS
22. [1.1] RENNER, Martin J. Compatibility of Generalized Noisy Qubit Measurements. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 25, art. no. 250202. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.250202>, Registrované v: WOS
23. [1.1] SABERIAN, Nayere - AKHTARSHENAS, Seyed Javad - SHAHBEIGI, Fereshte. Measurement sharpness and disturbance tradeoff. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 1, art. no. 012201. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.012201>, Registrované v: WOS
24. [1.1] SASMAL, S. - KANJILAL, S. - PAN, A. K. Unbounded Sharing of Nonlocality Using Qubit Projective Measurements. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 17, art. no. 170201. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.170201>, Registrované v: WOS
25. [1.1] SEKATSKI, Pavel. Compatibility of projective measurements subject to white noise and loss. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 2, art. no. 022215. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.022215>, Registrované v: WOS
26. [1.1] SEN, Kornikar - HALDER, Saronath - SEN, Ujjwal. Incompatibility of local measurements providing an advantage in local quantum state discrimination. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 1, art. no. 012415. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.012415>, Registrované v: WOS
27. [1.1] SONG, Xingrui - SALVATI, Flavio - GAIKWAD, Chandrashekhar - HALPERN, Nicole Yunger - ARVIDSSON-SHUKUR, David R. M. - MURCH, Kater. Agnostic Phase Estimation. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 26, art. no. 260801. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.260801>, Registrované v: WOS
28. [1.1] TAO, Hong - HUANG, Rui - TAN, Xiaoqing. Quantum Parameter Estimation With Graph States In $SU(N)$ Dynamics. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 5, art. no. 2300254. Dostupné na: <https://doi.org/10.1002/qute.202300254>, Registrované v: WOS
29. [1.1] TAVAKOLI, Armin - POZAS-KERSTJENS, Alejandro - BROWN, Peter - ARAUJO, Mateus. Semidefinite programming relaxations for quantum correlations. In *REVIEWS OF MODERN PHYSICS*, 2024, vol. 96, no. 4, art. no. 045006. ISSN 0034-6861. Dostupné na: <https://doi.org/10.1103/RevModPhys.96.045006>, Registrované v: WOS
30. [1.1] UOLA, Roope - HAAPASALO, Erkki - PELLONPAA, Juha-Pekka - KUUSELA, Tom. Retrievability of information in quantum and realistic hidden-variable theories. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 6, art. no. 062202. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.062202>, Registrované v: WOS
31. [1.1] VEEREN, Isadora - PLAVALA, Martin - LEPPAEJAERVI, Leevi - UOLA, Roope. Semi-device-independent certification of the number of measurements. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 6, art. no. 062203. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.062203>, Registrované v: WOS
32. [1.1] ZHANG, Xiaolin - QU, Rui - CHANG, Zehong - WANG, Yunlong - GUO, Zhenyu - AN, Min - GAO, Hong - LI, Fuli - ZHANG, Pei. Witnessing Quantum

Incompatibility Structures in High-Dimensional Multimeasurement Systems. In PHYSICAL REVIEW LETTERS, 2024, vol. 133, no. 19, art. no. 190202. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.190202>, Registrované v: WOS

33. [1.2] GUERINI, Leonardo - BARAVIERA, Alexandre. Birkhoff-von Neumann's theorem, doubly normalized tensors, and joint measurability. In *Linear and Multilinear Algebra*, 2024-01-01, 72, 1, pp. 92-105. ISSN 03081087. Dostupné na: <https://doi.org/10.1080/03081087.2022.2158164>, Registrované v: SCOPUS

ADCA302 HEINOSAARI, T. - MIYADERA, T. - REITZNER, Daniel. Strongly incompatible quantum devices. In *Foundations of Physics*, 2014, vol. 44, no. 1, p. 34-57. (2013: 1.144 - IF, Q3 - JCR, 0.817 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0015-9018. Dostupné na: <https://doi.org/10.1007/s10701-013-9761-1>

Citácie:

1. [1.1] HSIEH, Chung-Yun - CHEN, Shin-Liang. Thermodynamic Approach to Quantifying Incompatible Instruments. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 17, art. no. 170401. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.170401>, Registrované v: WOS

2. [1.1] JI, Kaiyuan - CHITAMBAR, Eric. Incompatibility as a Resource for Programmable Quantum Instruments. In *PRX QUANTUM*, 2024, vol. 5, no. 1, art. no. 010340. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.010340>, Registrované v: WOS

3. [1.1] SABERIAN, Nayere - AKHTARSHENAS, Seyed Javad - SHAHBEIGI, Fereshte. Measurement sharpness and disturbance tradeoff. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 1, art. no. 012201. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.012201>, Registrované v: WOS

ADCA303 HEINOSAARI, T. - KIUKAS, J. - REITZNER, Daniel. Noise robustness of the incompatibility of quantum measurements. In *Physical Review A*, 2015, vol. 92, no. 2, art. no. 022115. (2014: 2.808 - IF, Q1 - JCR, 2.201 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.92.022115>

Citácie:

1. [1.1] GUO, Yi - LUO, Shunlong. Quantifying incompatibility between positive operator-valued measures via negativity of the Jordan product. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 6, art. no. 062206. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.062206>, Registrované v: WOS

2. [1.1] JI, Kaiyuan - CHITAMBAR, Eric. Incompatibility as a Resource for Programmable Quantum Instruments. In *PRX QUANTUM*, 2024, vol. 5, no. 1, art. no. 010340. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.010340>, Registrované v: WOS

3. [1.1] KUROIWA, Kohdai - TAKAGI, Ryuji - ADESSO, Gerardo - YAMASAKI, Hayata. Every Quantum Helps: Operational Advantage of Quantum Resources beyond Convexity. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 15, art. no. 150201. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.150201>, Registrované v: WOS

4. [1.1] KUROIWA, Kohdai - TAKAGI, Ryuji - ADESSO, Gerardo - YAMASAKI, Hayata. Robustness- and weight-based resource measures without convexity restriction: Multicopy witness and operational advantage in static and dynamical quantum resource theories. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 4, art. no. 042403. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.042403>, Registrované v: WOS

5. [1.1] MASINI, Michele - IOANNOU, Marie - BRUNNER, Nicolas - PIRONIO, Stefano - SEKATSKI, Pavel. Joint-measurability and quantum communication with untrusted devices. In *QUANTUM*, 2024, vol. 8, no., art. no. 1574. ISSN 2521-327X., Registrované v: WOS

6. [1.1] RAGINI, Nidhin Sudarsanan - SAZIM, Sk. Higher-order incompatibility improves distinguishability of causal quantum networks. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 12, art. no. 123003. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad93f6>, Registrované v: WOS

7. [1.1] WANG, Pu - LI, Zhong-Yan - MENG, Hui-Xian. Quantum block coherence with respect to projective measurements. In *CHINESE PHYSICS B*, 2024, vol. 33, no. 8, art. no. 080308. ISSN 1674-1056. Dostupné na: <https://doi.org/10.1088/1674-1056/ad50c1>, Registrované v: WOS

8. [1.1] ZHANG, Xiaolin - QU, Rui - CHANG, Zehong - WANG, Yunlong - GUO, Zhenyu - AN, Min - GAO, Hong - LI, Fuli - ZHANG, Pei. Witnessing Quantum Incompatibility Structures in High-Dimensional Multimeasurement Systems. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 19, art. no. 190202. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.190202>, Registrované v: WOS

ADCA304 HEINOSAARI, T. - SCHULTZ, J. - TOIGO, A. - ZIMAN, Mário. Maximally incompatible quantum observables. In *Physics Letters A*, 2014, vol. 378, no. 24-25, p. 1695-1699. (2013: 1.626 - IF, Q2 - JCR, 0.631 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0375-9601. Dostupné na: <https://doi.org/10.1016/j.physleta.2014.04.026>

Citácie:

1. [1.1] MUKHERJEE, Sumit - PAN, A. K. Constrained measurement incompatibility from generalised contextuality of steered preparation. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 12, art. no. 123014. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad96d8>, Registrované v: WOS

ADCA305 HEINOSAARI, T. - JIVULESCU, M.A. - REITZNER, Daniel - ZIMAN, Mário. Approximating incompatible von Neumann measurements simultaneously. In *Physical Review A*, 2010, vol. 82, no. 3, art. no. 032328. (2009: 2.866 - IF, Q2 - JCR, 2.469 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.82.032328>

Citácie:

1. [1.1] BHATTACHARJEE, Suvrajit - GOSWAMI, Debashish. COMPLEX STRUCTURES ON THREE-POINT SPACE. In *INFINITE DIMENSIONAL ANALYSIS, QUANTUM PROBABILITY AND RELATED TOPICS, IDAQP 2024 : 38th international workshop of Infinite Dimensional Analysis and Quantum Probability and Related Topics (IDAQ)*, 2024, vol., no., pp. 77-101. ISSN 1793-5121., Registrované v: WOS

ADCA306 HEINOSAARI, T. - KIUKAS, J. - REITZNER, Daniel - SCHULTZ, J. Incompatibility breaking quantum channels. In *Journal of Physics A: Mathematical and Theoretical*, 2015, vol. 48, no. 43, art. no. 435301. (2014: 1.583 - IF, Q2 - JCR, 0.936 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8113/48/43/435301>

Citácie:

1. [1.1] CHANG, Wan-Guan - JU, Chia-Yi - CHEN, Guang-Yin - CHEN, Yueh-Nan - KU, Huan-Yu. Visually quantifying single-qubit quantum memory. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 2, art. no. 023035. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.023035>, Registrované v: WOS

2. [1.1] JI, Kaiyuan - CHITAMBAR, Eric. Incompatibility as a Resource for Programmable Quantum Instruments. In *PRX QUANTUM*, 2024, vol. 5, no. 1,

art. no. 010340. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.010340>, Registrované v: WOS

3. [1.1] MASINI, Michele - IOANNOU, Marie - BRUNNER, Nicolas - PIRONIO, Stefano - SEKATSKI, Pavel. Joint-measurability and quantum communication with untrusted devices. In *QUANTUM*, 2024, vol. 8, no., art. no. 1574. ISSN 2521-327X., Registrované v: WOS

4. [1.1] ZHANG, Yujie - CHITAMBAR, Eric. Exact Steering Bound for Two-Qubit Werner States. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 25, art. no. 250201. ISSN 0031-9007. Dostupné na:

<https://doi.org/10.1103/PhysRevLett.132.250201>, Registrované v: WOS

5. [1.2] ABIUSO, Paolo. Verification of continuous-variable quantum memories. In *Quantum Science and Technology*, 2024-01-01, 9, 1, pp. Dostupné na:

<https://doi.org/10.1088/2058-9565/ad097c>, Registrované v: SCOPUS

ADCA307 HEINOSAARI, Teiko - REITZNER, Daniel - RYBÁŘ, Tomáš - ZIMAN, Mário. Incompatibility of unbiased qubit observables and Pauli channels. In *Physical Review A*, 2018, vol. 97, no. 2, art. no. 022112. (2017: 2.909 - IF, Q1 - JCR, 1.288 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.97.022112>

Citácie:

1. [1.1] SABERIAN, Nayere - AKHTARSHENAS, Seyed Javad - SHAHBEIGI, Fereshte. Measurement sharpness and disturbance tradeoff. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 1, art. no. 012201. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.012201>, Registrované v: WOS

ADCA308 HEINOSAARI, Teiko** - LEPPÄJÄRVI, Leevi. Random access test as an identifier of nonclassicality. In *Journal of Physics A: Mathematical and Theoretical*, 2022, vol. 55, no. 17, art. no. 174003. (2021: 2.331 - IF, Q1 - JCR, 0.760 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/ac5b91>

Citácie:

1. [1.1] AMBAINIS, Andris - KRAVCHENKO, Dmitry - SAZIM, Sk - BAE, Joonwoo - RAI, Ashutosh. Quantum advantages in (n,d) bar right arrow 1 random access codes. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 12, art. no. 123023. ISSN 1367-2630. Dostupné na:

<https://doi.org/10.1088/1367-2630/ad9bdf>, Registrované v: WOS

2. [1.1] RIBEZZO, Domenico - SALAZAR, Roberto - CZARTOWSKI, Jakub - SEGUR, Flora - LEMMI, Gianmarco - PETITJEAN, Antoine - FARRUGIA, Noel - BACCO, Davide - XUEREB, Andre - ZAVATTA, Alessandro. Quantum Random Access Codes Implementation for Resource Allocation and Coexistence with Classical Telecommunication. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 4. Dostupné na: <https://doi.org/10.1002/qute.202300162>, Registrované v: WOS

3. [1.1] TAKAKURA, Ryo. Optimal CHSH values for regular polygon theories in generalized probabilistic theories. In *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, 2024, vol. 57, no. 37, art. no. 375305. ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/ad7077>, Registrované v: WOS

ADCA309 HEINOSAARI, Teiko - KERPPÖ, Oskari - LEPPÄJÄRVI, Leevi - PLÁVALA, Martin. Simple information-processing tasks with unbounded quantum advantage. In *Physical Review A*, 2024, vol. 109, no. 3, art. no. 032627. (2023: 2.6 - IF, Q2 - JCR, 1.081 - SJR, Q1 - SJR). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.032627>

Citácie:

1. [1.1] DING, Chen - LOBO, Edwin Peter - ALIMUDDIN, Mir - XU, Xiao-Yue - ZHANG, Shuo - BANIK, Manik - BAO, Wan-Su - HUANG, He-Liang. Quantum Advantage: A Single Qubit's Experimental Edge in Classical Data Storage. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 20, art. no. 200201. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.200201>, Registrované v: WOS

ADCA310 HELD, Vladimír - MRKÝVKOVÁ, Nad'a, Tesařová** - NÁDAŽDY, Peter - VÉGSÖ, Karol - VLK, Aleš - LEDINSKÝ, Martin - JERSEL, Matej - CHUMAKOV, Andrei - ROTH, Stephan V. - SCHREIBER, Frank - ŠIFFALOVIČ, Peter. Evolution of Structure and Optoelectronic Properties During Halide Perovskite Vapor Deposition. In *Journal of Physical Chemistry Letters*, 2022, vol. 13, no. 51, p. 11905-11912. (2021: 6.888 - IF, Q1 - JCR, 2.009 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1948-7185. Dostupné na: <https://doi.org/10.1021/acs.jpclett.2c03422>

Citácie:

1. [1.1] ABZIEHER, Tobias - MOORE, David T. - ROSS, Marcel - ALBRECHT, Steve - SILVIA, Jared - TAN, Hairen - JEANGROS, Quentin - BALLIF, Christophe - HOERANTNER, Maximilian T. - KIM, Beom-Soo - BOLINK, Henk J. - PISTOR, Paul - GOLDSCHMIDT, Jan Christoph - CHIANG, Yu-Hsien - STRANKS, Samuel D. - BORCHERT, Juliane - MCGEHEE, Michael D. - MORALES-MASIS, Monica - PATEL, Jay B. - BRUNO, Annalisa - PAETZOLD, Ulrich W. Vapor phase deposition of perovskite photovoltaics: short track to commercialization? In *ENERGY & ENVIRONMENTAL SCIENCE*, 2024, vol. 17, no. 5. ISSN 1754-5692. Dostupné na: <https://doi.org/10.1039/d3ee03273f>, Registrované v: WOS

2. [1.1] RODKEY, Nathan - HUISMAN, Bas - BOLINK, Henk J. Incremental Feeding of Perovskite Powders: Angstrom-Precision Growth for Single-Source Solar Cell Fabrication. In *ADVANCED ENGINEERING MATERIALS*, 2024, vol. 26, no. 10, art. no. 2400636. ISSN 1438-1656. Dostupné na: <https://doi.org/10.1002/adem.202400636>, Registrované v: WOS

ADCA311 HENDRYCH, A. - ŽIVOTSKÝ, O. - JIRÁSKOVÁ, Y. - MAŤKO, Igor. The surface and bulk magnetic properties of Fe-Al alloys. In *Acta Physica Polonica A*, 2014, vol. 126, no. 1, p. 58-59. (2013: 0.604 - IF, Q4 - JCR, 0.345 - SJR, Q3 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 1898-794X. Dostupné na: <https://doi.org/10.12693/APhysPolA.126.58>

Citácie:

1. [1.1] FAN, Raymond - KIRANJOT - ABOLJADAYEL, Razan O. M. - ALSAEED, Kalel - BENCOK, Peter - BURN, David M. - HINDMARCH, Aidan T. - STEADMAN, Paul. Measuring magnetic hysteresis curves with polarized soft X-ray resonant reflectivity. In *JOURNAL OF SYNCHROTRON RADIATION*, 2024, vol. 31, no., pp. 493-507. ISSN 0909-0495. Dostupné na: <https://doi.org/10.1107/S160057752400119X>, Registrované v: WOS

ADCA312 HENLEY, C.L. - MIHALKOVIČ, Marek - WIDOM, M. Total-energy-based structure prediction for d(AlNiCo). In *Journal of Alloys and Compounds*, 2002, vol. 342, no. 1-2, p. 221- 227. (2001: 0.953 - IF, karentované - CCC). (2002 - Current Contents, WOS, SCOPUS). Dostupné na: [https://doi.org/10.1016/S0925-8388\(02\)00199-8](https://doi.org/10.1016/S0925-8388(02)00199-8)

Citácie:

1. [1.1] CHIZHIKOV, Viacheslav A. Inflation rules for a chiral pentagonal quasiperiodic tiling of stars and hexes. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 17, art. no. 174104. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.174104>, Registrované v: WOS

ADCA313 HEO, Do Yeon - LEE, Tae Hyung - IWAN, Agnieszka - KAVAN, Ladislav -

OMASTOVÁ, Mária - MAJKOVÁ, Eva - KAMARÁS, Katalin - JANG, Ho Won** - KIM, Soo Young**. Effect of lead thiocyanate ions on performance of tin-based perovskite solar cells. In *Journal of Power Sources*, 2020, vol. 458, art. no. 228067 [8] p. (2019: 8.247 - IF, Q1 - JCR, 2.111 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0378-7753. Dostupné na: <https://doi.org/10.1016/j.jpowsour.2020.228067>

Citácie:

1. [1.1] KULKARNI, Srish - GUPTA, Smita - GOHEL, Jignasa V. "Contemporary neoteric energy materials to enhance efficiency and stability of perovskite solar cells: a review". In *JOURNAL OF SOLID STATE ELECTROCHEMISTRY*, 2024, vol. 28, no. 9, pp. 3051-3076. ISSN 1432-8488. Dostupné na: <https://doi.org/10.1007/s10008-024-05905-7>, Registrované v: WOS
2. [1.1] MARQUES, Marc Josep Montagut - LIN, Weiye - TAIMA, Tetsuya - UMEZU, Shinjiro - SHAHIDUZZAMAN, Md. Unleashing the potential of industry viable roll-to-roll compatible technologies for perovskite solar cells: Challenges and prospects. In *MATERIALS TODAY*, 2024, vol. 78, no., pp. 112-141. ISSN 1369-7021. Dostupné na: <https://doi.org/10.1016/j.mattod.2024.06.013>, Registrované v: WOS
3. [1.1] NAKAMANYA, Barbara - KAKOOZA, Tonny - SUN, Qianwen - HAGHAYEGH, Marjan - BALILONDA, Andrew - TEBYETEKERWA, Mike - YANG, Shengyuan - ZHU, Meifang. Strategies for constructing high-performance tin-based perovskite solar cells. In *JOURNAL OF MATERIALS CHEMISTRY C*, 2024, vol. 12, no. 12, pp. 4184-4207. ISSN 2050-7526. Dostupné na: <https://doi.org/10.1039/d3tc04411d>, Registrované v: WOS
4. [1.1] REN, Xuefei - WANG, Shuqi - CAI, Hengzhuo - QIU, Peng - WANG, Qiwei - LU, Xubing - GAO, Xingsen - SHUI, Lingling - WU, Sujuan - LIU, Jun-Ming. Multifunctional Acetaminophen Interlayer for High Efficiency and Durability Lead-Lean Perovskite Solar Cells. In *LANGMUIR*, 2024, vol. 40, no. 38, pp. 19905-19916. ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.4c01681>, Registrované v: WOS
5. [1.1] ZHANG, Yulong - JIANG, Zhaoyi - LI, Jincheng - MENG, Guanxiong - GUO, Jiajun - ZHANG, Weijia. Preparation of Highly Efficient and Stable All-Inorganic CsPbBr₃ Perovskite Solar Cells Using Pre-Crystallization Multi-Step Spin-Coating Method. In *COATINGS*, 2024, vol. 14, no. 7, art. no. 918. Dostupné na: <https://doi.org/10.3390/coatings14070918>, Registrované v: WOS
6. [1.2] SAJID, Muhammad - IRUM, Ghazala - FARHAN, Ahmad - QAMAR, Muhammad Azam. Role of metal-organic frameworks (MOF) based nanomaterials for the efficiency enhancement of solar cells: A mini-review. In *Hybrid Advances*, 2024-04-01, 5, pp. Dostupné na: <https://doi.org/10.1016/j.hybadv.2024.100167>, Registrované v: SCOPUS

ADCA314

HERMAN, M. - MARCINKOWSKI, A. - BIELEWICZ, J. - OBLOŽINSKÝ, Pavol. CROSS-SECTIONS FOR (N,P) AND (N,N') REACTIONS ON PD, CD AND OS. In *Nuclear Physics A*, 1978, vol. 297, no. 2, p. 335-346. ISSN 0375-9474. Dostupné na: [https://doi.org/10.1016/0375-9474\(78\)90280-4](https://doi.org/10.1016/0375-9474(78)90280-4)

Citácie:

1. [1.1] KAZAKOV, A. G. - BABENYA, J. S. - EKATOVA, T. Y. - KHVOROSTININ, E. Y. - BELYSHEV, S. S. - KUZNETSOV, A. A. - KHANKIN, V. V. - VINOKUROV, S. E. - MYASOEDOV, B. F. Production of SUP105/SUPRh Using Electron Accelerators and a New Method for Its Recovery from Irradiated Targets. In *RADIOCHEMISTRY*, 2024, vol. 66, no. 3, pp. 356-363. ISSN 1066-3622. Dostupné na: <https://doi.org/10.1134/S1066362224030093>, Registrované v: WOS
2. [1.1] SACHHIDANANDA, H. B. - MANOHARA, S. R. - SUNITHA, A. M. -

SURYANARAYANA, S. V. - NAIK, Haladhara - PASHA, Imran. Measurement of $SUP112/SUPCd(n,2n)SUP111m/SUPCd$ and $SUP112/SUPCd(n,p)SUP112/SUPAg$ reaction cross sections at the neutron energy of 14.54 MeV and covariance analysis. In *JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY*, 2024, vol. 333, no. 11, pp. 5629-5638. ISSN 0236-5731. Dostupné na: <https://doi.org/10.1007/s10967-024-09580-w>, Registrované v: WOS

ADCA315 HERZÁŇ, Andrej** - JUUTINEN, S. - AURANEN, K. - GRAHN, T. - GREENLEES, P.T. - HAUSCHILD, K. - JAKOBSSON, U. - JULIN, R. - KETELHUT, S. - LEINO, M. - LOPEZ-MARTENS, A. - LÖNNROTH, T. - NIEMINEN, P. - NYMAN, M. - PARTANEN, J. - PEURA, P. - RAHKILA, P. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - SCHOLEY, C. - SLOTTE, J.M.K. - SORRI, J. - STOLZE, S. - UUSITALO, J. Study of excited states and observation of collective level structures in the odd-odd nucleus Bi-194. In *European Physical Journal A*, 2020, vol. 56, no. 6, art. no. 165. (2019: 2.176 - IF, Q2 - JCR, 0.991 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-020-00167-z>

Citácie:

1. [1.1] SHUKLA, Sakshi - SRIVASTAVA, Praveen C. - PATEL, Deepak. Systematic shell-model study of structure and isomeric states in $SUP204-213/SUPBi$ isotopes. In *JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS*, 2024, vol. 51, no. 7, art. no. 075103. ISSN 0954-3899. Dostupné na: <https://doi.org/10.1088/1361-6471/ad4d07>, Registrované v: WOS

2. [1.1] TENG, J. X. - MA, K. Y. Systematic study of magnetic and antimagnetic rotational bands. In *JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS*, 2024, vol. 51, no. 6, art. no. 065102. ISSN 0954-3899. Dostupné na: <https://doi.org/10.1088/1361-6471/ad3974>, Registrované v: WOS

3. [1.1] ZHAO, ShuNan - CHEN, Duo - LI, Jian - YANG, Dong. Magnetic rotations in $202Bi$ and $203Bi$. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 1, art. no. 014315. ISSN 2469-9985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.109.014315>, Registrované v: WOS

ADCA316 HEßBERGER, F. P.** - ANTALIC, S. - GIACOPPO, F. - ANDEL, B. - ACKERMANN, D. - BLOCK, M. - HEINZ, S. - KHUYAGBAATAR, J. - KOJOUHAROV, I. - VENHART, Martin. Alpha-gamma decay studies of $247Md$. In *European Physical Journal A*, 2022, vol. 58, no. 1, art. no. 11. (2021: 3.131 - IF, Q2 - JCR, 0.958 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-022-00663-4>

Citácie:

1. [1.1] PORE, J. L. - YOUNES, W. - GATES, J. M. - ROBLEDO, L. M. - GARCIA, F. H. - ORFORD, R. - CRAWFORD, H. L. - FALLON, P. - GOODING, J. A. - COVO, M. Kireeff - MCCARTHY, M. - STOYER, M. A. Spontaneous fission of the odd-Z isotope $SUP255/SUPDb$. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 4, art. no. L041301. ISSN 2469-9985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.110.L041301>, Registrované v: WOS

ADCA317 HILLERY, M. - ZIMAN, Mário - BUŽEK, Vladimír. Implementation of quantum maps by programmable quantum processors. In *Physical Review A*, 2002, vol. 66, no. 4, art. no. 042302. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.66.042302>

Citácie:

1. [1.1] WANG, Shou-Ya - ZHANG, Wen-Hai. Universal programmable unambiguous discrimination of two unknown states with two copies. In *AIP ADVANCES*, 2024, vol. 14, no. 10, art. no. 105130. Dostupné na:

- <https://doi.org/10.1063/5.0232590>, Registrované v: WOS
- ADCA318 HILLERY, M. - ZIMAN, Mário - BUŽEK, Vladimír. Approximate programmable quantum processors. In *Physical Review A*, 2006, vol. 73, no. 2, art. no. 022345. (2005: 2.997 - IF, Q1 - JCR, 1.394 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, SCOPUS). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.73.022345>
- Citácie:
- [1.1] GAVOROVA, Zuzana - SEIDEL, Matan - TOUATI, Yonathan. Topological obstructions to quantum computation with unitary oracles. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 3, art. no. 032625. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.032625>, Registrované v: WOS
 - [1.1] MUGURUZA, Garazi - SPEELMAN, Florian. Port-Based State Preparation and Applications. In *QUANTUM*, 2024, vol. 8, no., art. no. 1573. ISSN 2521-327X., Registrované v: WOS
- ADCA319 HILLERY, M. - ZIMAN, Mário - BUŽEK, Vladimír - BŮŽEK, Václav. Towards quantum-based privacy and voting. In *Physics Letters A*, 2006, vol. 349, no. 1-4, p. 75-81. (2005: 1.550 - IF, Q2 - JCR, 0.920 - SJR, Q2 - SJR). ISSN 0375-9601. Dostupné na: <https://doi.org/10.1016/j.physleta.2005.09.010>
- Citácie:
- [1.1] CHENG, Qi - SITU, Haozhen - HUANG, Qiong - ZHANG, Cai. Secure Three-Party Quantum Summation based on W-class States. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 4, art. no. 98. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05641-8>, Registrované v: WOS
 - [1.1] LI, Fulin - LUO, Mei - ZHU, Shixin - PANG, Binbin. General quantum secure multiparty computation protocol for simultaneous summation and multiplication. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 1, art. no. 015107. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad1281>, Registrované v: WOS
 - [1.1] LUO, Mei - LI, Fulin - LIU, Li - ZHU, Shixin. Verifiable quantum protocol for dynamic secure multiparty summation based on homomorphic encryption. In *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, 2024, vol. 57, no. 11, art. no. 115302. ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/ad2b88>, Registrované v: WOS
 - [1.1] MOR-RUIZ, Maria Flors - DUER, Wolfgang. Influence of Noise in Entanglement-Based Quantum Networks. In *IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS*, 2024, vol. 42, no. 7, pp. 1793-1807. ISSN 0733-8716. Dostupné na: <https://doi.org/10.1109/JSAC.2024.3380089>, Registrované v: WOS
 - [1.1] PRAJAPAT, Sunil - GAUTAM, Urmika - GAUTAM, Deepika - KUMAR, Pankaj - VASILAKOS, Athanasios V. Designing a Robust Quantum Signature Protocol Based on Quantum Key Distribution for E-Voting Applications. In *MATHEMATICS*, 2024, vol. 12, no. 16, art. no. 2558. Dostupné na: <https://doi.org/10.3390/math12162558>, Registrované v: WOS
 - [1.1] QIU, Shujing - XIN, Xiangjun - QIAN, Zheng - LI, Chaoyang - LI, Fagen. Security Analysis and Improvements on a Semi-Quantum Electronic Voting Protocol. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 3, art. no. 79. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05618-7>, Registrované v: WOS
 - [1.1] QIU, Shujing - XIN, Xiangjun - ZHENG, Qian - LI, Chaoyang - LI, Fagen. Semi-quantum voting protocol with decentralization of vote verification and traceability. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23,

no. 12, art. no. 402. ISSN 1570-0755. Dostupné na:

<https://doi.org/10.1007/s11128-024-04604-6>, Registrované v: WOS

8. [1.1] SHUJING, Qiu - XIANGJUN, Xin - JIAHAO, Zhang - CHAOYANG, Li - FAGEN, Li - QIAN, Zheng. Comment and improvement on the "semi-quantum ring signature protocol based on multi-particle GHZ state". In QUANTUM INFORMATION PROCESSING, 2024, vol. 23, no. 8, art. no. 287. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04500-z>, Registrované v: WOS

9. [1.1] SUN, Xin - CUI, Anran - CHEN, Hui - SU, Xingchi. A Practical Multi-candidate Voting Protocol on Quantum Blockchain Adapted for Various Tally Principles. In INFORMATION SECURITY AND CRYPTOLOGY, INSCRYPT 2023, PT II : 19th International Conference on Information Security and Cryptology (Inscrypt), 2024, vol. 14527, no., pp. 305-316. ISSN 0302-9743. Dostupné na: https://doi.org/10.1007/978-981-97-0945-8_17, Registrované v: WOS

10. [1.1] TSAI, Chia-Wei - LIN, Jason - YANG, Chun-Wei. Cryptanalysis and improvement of quantum secure multi-party summation using single photons. In PHYSICA SCRIPTA, 2024, vol. 99, no. 3, art. no. 035114. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad275a>, Registrované v: WOS

11. [1.1] WANG, Bing - GONG, Li-Hua - LIU, San-Qiu. Multi-party semi-quantum private comparison protocol of size relation based on two-dimensional Bell states. In CHINESE PHYSICS B, 2024, vol. 33, no. 11, art. no. 110303. ISSN 1674-1056. Dostupné na: <https://doi.org/10.1088/1674-1056/ad73ae>, Registrované v: WOS

12. [1.2] ZHANG, Haowen - JIANG, Donghuan - XU, Guangbao. A Superdense Coding Quantum Voting Protocol Based on Three Particle Entangled States. In Beijing Youdian Daxue Xuebao Journal of Beijing University of Posts and Telecommunications, 2024-12-01, 47, 6, pp. 30-37. ISSN 10075321. Dostupné na: <https://doi.org/10.13190/j.jbupt.2024-044>, Registrované v: SCOPUS

ADCA320 HILLERY, M. - MLODINOW, L. - BUŽEK, Vladimír. Quantum interference with molecules: The role of internal states. In Physical Review A, 2005, vol. 71, no. 6, art. no. 062103. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.71.062103>

Citácie:

1. [1.1] ZHAO, Pengcheng. Momentum space oscillation properties of vortex states collision. In PHYSICAL REVIEW D, 2024, vol. 109, no. 9, art. no. 096015. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.109.096015>, Registrované v: WOS

ADCA321 HILLERY, M. - BUŽEK, Vladimír - ZIMAN, Mário. Dynamics of open quantum systems initially entangled with environment: Beyond the Kraus representation. In Physical Review A, 2001, vol. 64, no. 6, art. no. 062106. (2000: 2.684 - IF). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.64.062106>

Citácie:

1. [1.1] BABU, A. P. - ALIPOUR, S. - REZAKHANI, A. T. - ALA-NISSILA, T. Unfolding system-environment correlation in open quantum systems: Revisiting master equations and the Born approximation. In PHYSICAL REVIEW RESEARCH, 2024, vol. 6, no. 1, art. no. 013243. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.013243>, Registrované v: WOS

2. [1.1] LAYTON, Isaac - OPPENHEIM, Jonathan - WELLER-DAVIES, Zachary. A healthier semi-classical dynamics. In QUANTUM, 2024, vol. 8, no., art. no. 1565. ISSN 2521-327X. Dostupné na: <https://doi.org/10.22331/q-2024-12-16-1565>, Registrované v: WOS

3. [1.1] MANDAL, Koushik - RADHAKRISHNAN, Chandrashekar - SATYANARAYANA, M. The role of thermal and squeezed photons in the entanglement dynamics of the double Jaynes-Cummings model. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 7, art. no. 075121. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad5913>, Registrované v: WOS
4. [1.1] SARGOLZABI, Iman. Initial correlations in open quantum systems are always detectable. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 2, art. no. 022213. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.022213>, Registrované v: WOS
5. [1.1] TOKIEDA, Masaaki - ELOUARD, Cyril - SARLETTE, Alain - ROUCHON, Pierre. Complete positivity violation of the reduced dynamics in higher-order quantum adiabatic elimination. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 6, art. no. 062206. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.062206>, Registrované v: WOS
6. [1.1] ZHOU, Guoqing - QIAN, Lihuang - GAMBA, Paolo. A Novel Iterative Self-Organizing Pixel Matrix Entanglement Classifier for Remote Sensing Imagery. In *IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING*, 2024, vol. 62, no., art. no. 5407121. ISSN 0196-2892. Dostupné na: <https://doi.org/10.1109/TGRS.2024.3424227>, Registrované v: WOS

ADCA322 HILLERY, M. - BUŽEK, Vladimír - BERTHIAUME, A. Quantum secret sharing. In *Physical Review A*, 1999, vol. 59, no. 3, p. 1829-1834. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.59.1829>

Citácie:

1. [1.1] ABUGHANEM, Muhammad. Information processing at the speed of light. In *FRONTIERS OF OPTOELECTRONICS*, 2024, vol. 17, no. 1, art. no. 33. ISSN 2095-2759. Dostupné na: <https://doi.org/10.1007/s12200-024-00133-3>, Registrované v: WOS
2. [1.1] ACHOURI, Youssouf - DJELLAB, Rima - HAMOUID, Khaled. An Overview of Quantum Key Agreement Protocols. In *QUANTUM COMPUTING: APPLICATIONS AND CHALLENGES, QSAC 2023*, 2024, vol. 2, no., pp. 1-14. ISSN 3004-958X. Dostupné na: https://doi.org/10.1007/978-3-031-59318-5_1, Registrované v: WOS
3. [1.1] AHN, Byungkyu - PARK, Jooyoun - LEE, Jonghyun - LEE, Sangrim. High-dimensional single photon based quantum secure direct communication using time and phase mode degrees. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 888. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-51212-6>, Registrované v: WOS
4. [1.1] AISAN, Yimamujiang - PENG, Jiayin - MAIHEMUTI, Nueraminimu - TANG, Jiangang. Short-Distance Bidirectional Teleportation of High-Dimensional Arbitrary Single-Qudit States. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 4, art. no. 96. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05636-5>, Registrované v: WOS
5. [1.1] AL-HRAISHAWI, Hayder - REHMAN, Junaid Ur - RAZAVI, Mohsen - CHATZINOTAS, Symeon. Characterizing and Utilizing the Interplay Between Quantum Technologies and Non-Terrestrial Networks. In *IEEE OPEN JOURNAL OF THE COMMUNICATIONS SOCIETY*, 2024, vol. 5, no., pp. 1937-1957. Dostupné na: <https://doi.org/10.1109/OJCOMS.2024.3380508>, Registrované v: WOS
6. [1.1] ALIPOUR, Behzad - AKHOUND, Ahmad. Bidirectional Quantum Teleportation of GHZ and EPR States Through Entanglement Swapping Utilizing a Pre-established GHZ Channel. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 6, art. no. 140. ISSN 0020-7748.

Dostupné na: <https://doi.org/10.1007/s10773-024-05655-2>, Registrované v: WOS

7. [1.1] ANDRONIKOS, Theodore - SIROKOFSKICH, Alla. A Multiparty Quantum Private Equality Comparison Scheme Relying on $|\text{GHZ3}\rangle$ States. In *FUTURE INTERNET*, 2024, vol. 16, no. 9, art. no. 309. ISSN 1999-5903. Dostupné na: <https://doi.org/10.3390/fi16090309>, Registrované v: WOS

8. [1.1] ANDRONIKOS, Theodore. A Distributed and Parallel (k, n) QSS Scheme with Verification Capability. In *MATHEMATICS*, 2024, vol. 12, no. 23, art. no. 3782. Dostupné na: <https://doi.org/10.3390/math12233782>, Registrované v: WOS

9. [1.1] ANURADHA, Tonipe - PATRA, Ayan - GUPTA, Rivu - RAI, Amit - SEN DE, Aditi. Production of genuine multimode entanglement in circular waveguides with long-range coupling. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 3, art. no. 032411. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.032411>, Registrované v: WOS

10. [1.1] AREMUA, Isiaka - GOUBA, Laure. Teleportation of a qubit using quasi-Bell states. In *JOURNAL OF PHYSICS COMMUNICATIONS*, 2024, vol. 8, no. 9, art. no. 095001. ISSN 2399-6528. Dostupné na: <https://doi.org/10.1088/2399-6528/ad74c6>, Registrované v: WOS

11. [1.1] ASAVANANT, Warit - FURUSAWA, Akira. Multipartite continuous-variable optical quantum entanglement: Generation and application. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 4, art. no. 040101. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.040101>, Registrované v: WOS

12. [1.1] BAI, Chen-Ming - FENG, Yanan - ZHANG, Sujuan - LIU, Lu. Verifiable Quantum Secret Sharing Scheme Based on LDPC Codes. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 1, art. no. 6. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-023-05533-3>, Registrované v: WOS

13. [1.1] BAI, Chen-Ming - LIU, Lu - ZHANG, Sujuan. Verifiable quantum secret sharing scheme based on orthogonal product states. In *CHINESE PHYSICS B*, 2024, vol. 33, no. 7, art. no. 070302. ISSN 1674-1056. Dostupné na: <https://doi.org/10.1088/1674-1056/ad342a>, Registrované v: WOS

14. [1.1] BALA, Rajni - ASTHANA, Sooryansh - RAVISHANKAR, V. Integrated semi-quantum layered communication. In *IET QUANTUM COMMUNICATION*, 2024, vol. 5, no. 1, pp. 72-87. Dostupné na: <https://doi.org/10.1049/qtc2.12075>, Registrované v: WOS

15. [1.1] BANIC, Milica - SIPE, J. E. - LISCIDINI, Marco. Integrated photonic sources of frequency-bin-encoded multipartite entangled states. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 1, art. no. 013505. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.013505>, Registrované v: WOS

16. [1.1] BHUNIA, Atanu - BERA, Subrata - BISWAS, Indranil - CHATTOPADHYAY, Indrani - SARKAR, Debasis. Strong quantum nonlocality: Unextendible biseparability beyond unextendible product basis. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 5, art. no. 052211. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.052211>, Registrované v: WOS

17. [1.1] BRAVYI, Sergey - SHARMA, Yash - SZEGEDY, Mario - DE WOLF, Ronald. Generating k EPR-pairs from an n -party resource state. In *QUANTUM*, 2024, vol. 8, no., art. no. 1348. ISSN 2521-327X., Registrované v: WOS

18. [1.1] CAI, Xiao-Qiu - LI, Shuang - LIU, Zi-Fan - WANG, Tian-Yin. Improving security of efficient multiparty quantum secret sharing based on a novel structure and single qubits. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 18385. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-69417-0>, Registrované v: WOS

19. [1.1] CAI, Xiao-Qiu - LI, Shuang - LIU, Zi-Fan - WANG, Tian-Yin. Measurement-Device-Independent Quantum Secret Sharing. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 8. Dostupné na: <https://doi.org/10.1002/qute.202400060>, Registrované v: WOS
20. [1.1] CAMPBELL, Conall J. - HAWKINS, Adam G. - ZICARI, Giorgio - PATERNOSTRO, Mauro - MCALEESE, Hannah. Entanglement distribution through separable states via a zero-added-loss photon multiplexing inspired protocol. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 3, art. no. 033317. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.033317>, Registrované v: WOS
21. [1.1] CHATTOPADHYAY, Arup Kumar - SAHA, Sanchita - NAG, Amitava - NANDI, Sukumar. Secret sharing: A comprehensive survey, taxonomy and applications. In *COMPUTER SCIENCE REVIEW*, 2024, vol. 51, no., art. no. 100608. ISSN 1574-0137. Dostupné na: <https://doi.org/10.1016/j.cosrev.2023.100608>, Registrované v: WOS
22. [1.1] CHAWLA, Diksha - MEHRA, Pawan Singh. QAKA: A novel quantum authentication and key agreement (QAKA) protocol using quantum entanglement for secure communication among IoT devices. In *TRANSACTIONS ON EMERGING TELECOMMUNICATIONS TECHNOLOGIES*, 2024, vol. 35, no. 3, art. no. e4957. ISSN 2161-3915. Dostupné na: <https://doi.org/10.1002/ett.4957>, Registrované v: WOS
23. [1.1] CHEN, Ke-Qin - CAI, Bin-Bin - LIN, Song - ZHANG, Xiao-Chen. Hierarchical Quantum Secret Sharing Based On Quantum Fourier Transform. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 12, art. no. 317. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05864-9>, Registrované v: WOS
24. [1.1] CHEN, Leizhen - WU, Bochi - LU, Liangliang - WANG, Kai - LU, Yanqing - ZHU, Shining - MA, Xiao-Song. Observation of quantum nonlocality in Greenberger-Horne-Zeilinger entanglement on a silicon. In *OPTICS EXPRESS*, 2024, vol. 32, no. 9, pp. 14904-14913. ISSN 1094-4087. Dostupné na: <https://doi.org/10.1364/OE.515070>, Registrované v: WOS
25. [1.1] CHENG, Xiaogang - GUO, Ren - ZHOU, Changli. Quantum Advantage of Threshold Changeable Secret Sharing Scheme. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 5, art. no. 109. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05645-4>, Registrované v: WOS
26. [1.1] CHOI, Minjin - SHIN, Jeonghyeon - LEE, Gunho - BAE, Eunok. Investigating controlled teleportation capability of quantum states with respect to k-separability. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 6, art. no. 062403. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.062403>, Registrované v: WOS
27. [1.1] CHU, Yaoming - LI, Xiangbei - CAI, Jianming. Quantum Delocalization on Correlation Landscape: The Key to Exponentially Fast Multipartite Entanglement Generation. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 11, art. no. 110201. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.110201>, Registrované v: WOS
28. [1.1] DA SILVA, Francisco Ferreira - AVIS, Guus - SLATER, Joshua A. - WEHNER, Stephanie. Requirements for upgrading trusted nodes to a repeater chain over 900 km of optical fiber. In *QUANTUM SCIENCE AND TECHNOLOGY*, 2024, vol. 9, no. 4, art. no. 045041. ISSN 2058-9565. Dostupné na: <https://doi.org/10.1088/2058-9565/ad7499>, Registrované v: WOS
29. [1.1] DAI WEI-PENG - HE KAN - HOU JIN-CHUAN. Parameterized

entanglement measures based on Renyi- α entropy. In *ACTA PHYSICA SINICA*, 2024, vol. 73, no. 4, art. no. 040303. ISSN 1000-3290. Dostupné na: <https://doi.org/10.7498/aps.73.20231503>, Registrované v: WOS

30. [1.1] DAVIES, Bethany - INESTA, Alvaro G. - WEHNER, Stephanie. Entanglement buffering with two quantum memories. In *QUANTUM*, 2024, vol. 8, no., art. no. 1458. ISSN 2521-327X., Registrované v: WOS

31. [1.1] DE JONG, J. - HAHN, F. - TCHOLTCHIEV, N. - HAUSWIRTH, M. - PAPPA, A. Extracting GHZ states from linear cluster states. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 1, art. no. 013330. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.013330>, Registrované v: WOS

32. [1.1] DENG, Haowei - TAO, Runzhou - PENG, Yuxiang - WU, Xiaodi. A Case for Synthesis of Recursive Quantum Unitary Programs. In *PROCEEDINGS OF THE ACM ON PROGRAMMING LANGUAGES-PACMPL*, 2024, vol. 8, no. POPL, art. no. 59. Dostupné na: <https://doi.org/10.1145/3632901>, Registrované v: WOS

33. [1.1] DENG, Yuanyang. Asymmetric controlled remote implementation of operations in different dimensions. In *PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS*, 2024, vol. 646, no., art. no. 129885. ISSN 0378-4371. Dostupné na: <https://doi.org/10.1016/j.physa.2024.129885>, Registrované v: WOS

34. [1.1] DO, Canh Minh - OGATA, Kazuhiro. Symbolic model checking quantum circuits in Maude. In *PEERJ COMPUTER SCIENCE*, 2024, vol. 10, no., art. no. E2098. Dostupné na: <https://doi.org/10.7717/peerj-cs.2098>, Registrované v: WOS

35. [1.1] DONG, Dong-Dong - LI, Li-Juan - SONG, Xue-Ke - YE, Liu - WANG, Dong. Quantifying genuine tripartite entanglement by reshaping the state. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 3, art. no. 032420. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.032420>, Registrované v: WOS

36. [1.1] DU, Fang-Fang - LI, Ling-Hui - REN, Xue-Mei - WANG, Yang-Yang - LIU, Wen-Yao. Error-rejecting entanglement purification and concentration for one-dimensional waveguide-emitter system. In *LASER PHYSICS*, 2024, vol. 34, no. 11, art. no. 115203. ISSN 1054-660X. Dostupné na: <https://doi.org/10.1088/1555-6611/ad7c33>, Registrované v: WOS

37. [1.1] DU, Fang-Fang - MA, Ming - REN, Xue-Mei - FAN, Gang. Entanglement concentration of W state using linear optics with a higher success probability. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 4, art. no. 134. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04334-9>, Registrované v: WOS

38. [1.1] FALEO, Tommaso - BRUNNER, Eric - WEBB, Jonathan W. - PICKSTON, Alexander - HO, Joseph - WEIHS, Gregor - BUCHLEITNER, Andreas - DITTEL, Christoph - DUFOUR, Gabriel - FEDRIZZI, Alessandro - KEIL, Robert. Entanglement-induced collective many-body interference. In *SCIENCE ADVANCES*, 2024, vol. 10, no. 35, art. no. eadp9030. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.adp9030>, Registrované v: WOS

39. [1.1] FATAHI, Negin - PARSAMEHR, Sajad. Multi-hop quantum teleportation of a N-qubit quantum state by using cluster state. In *MODERN PHYSICS LETTERS B*, 2024, vol. 38, no. 23. ISSN 0217-9849. Dostupné na: <https://doi.org/10.1142/S0217984924501914>, Registrované v: WOS

40. [1.1] FENG, Lu - ZHOU, Ri-Gui - ZHANG, Xiao-Xue. Dynamic quantum secret sharing with identity verification based on quantum walks. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 12, art. no. 125109. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad8b81>, Registrované v: WOS

41. [1.1] FORBES, Andrew - YOUSSEF, Mostafa - SINGH, Sachleen - NAPE,

- Isaac - UNG, Bora. Quantum cryptography with structured photons. In *APPLIED PHYSICS LETTERS*, 2024, vol. 124, no. 11, art. no. 110501. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0185281>, Registrované v: WOS
42. [1.1] FREUND, Julia - PIRKER, Alexander - DUER, Wolfgang. Flexible quantum data bus for quantum networks. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 3, art. no. 033267. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.033267>, Registrované v: WOS
43. [1.1] GANARDI, Ray - KONDRÁ, Tulja Varun - STRELTISOV, Alexander. Catalytic and Asymptotic Equivalence for Quantum Entanglement. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 25, art. no. 250201. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.250201>, Registrované v: WOS
44. [1.1] GAO, Gan. Cryptanalysis and improvement of efficient multiparty quantum secret sharing based on a novel structure and single qubits. In *EPJ QUANTUM TECHNOLOGY*, 2024, vol. 11, no. 1, art. no. 23. ISSN 2662-4400. Dostupné na: <https://doi.org/10.1140/epjqt/s40507-024-00235-z>, Registrované v: WOS
45. [1.1] GAO, Gan. Cryptanalysis of efficient semi-quantum secret sharing protocol using single particles. In *CHINESE PHYSICS B*, 2024, vol. 33, no. 4, art. no. 040301. ISSN 1674-1056. Dostupné na: <https://doi.org/10.1088/1674-1056/ad2bee>, Registrované v: WOS
46. [1.1] GHOSH, Debkanta - DAS AGARWAL, Keshav - HALDER, Pritam - SEN (DE), Aditi. Entanglement of weighted graphs uncovering transitions in variable-range interacting models. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 2, art. no. 022431. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.022431>, Registrované v: WOS
47. [1.1] GU, Jing-Qiu - FENG, Ya-Peng - DU, Ming-Ming - ZHONG, Wei - SHENG, Yu-Bo - ZHOU, Lan. Efficient noiseless linear amplification protocol for single-photon state using imperfect auxiliary photon source. In *LASER PHYSICS LETTERS*, 2024, vol. 21, no. 2, art. no. 025203. ISSN 1612-2011. Dostupné na: <https://doi.org/10.1088/1612-202X/ad1aaa>, Registrované v: WOS
48. [1.1] GUO, Ran - ZHOU, Ri-Gui - ZHANG, Xiao-Xue. Measurement-device-independent multi-party quantum secure direct communication. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 9, art. no. 304. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04505-8>, Registrované v: WOS
49. [1.1] GUPTA, Rivu - ROY, Saptarshi - DAS, Tamoghna - SEN(DE), Aditi. Quantum illumination with noisy probes: Conditional advantages of non-Gaussianity. In *PHYSICS LETTERS A*, 2024, vol. 505, no., art. no. 129446. ISSN 0375-9601. Dostupné na: <https://doi.org/10.1016/j.physleta.2024.129446>, Registrované v: WOS
50. [1.1] GUPTA, Sachi - SINHA, Aman - PANDEY, Sumit Kumar. A resilient m-qubit quantum secret sharing scheme using quantum error correction code. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 2, art. no. 58. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04265-5>, Registrované v: WOS
51. [1.1] HE, Fan - LI, Chaoyang - XIN, Xiangjun. Multi-party Weighted Threshold d-Dimensional Semi-Quantum Secret Sharing Based on the Chinese Remainder Theorem. In *FRONTIERS IN CYBER SECURITY, FCS 2024, PT I*, 2024, vol. 2315, no., pp. 495-507. ISSN 1865-0929. Dostupné na: https://doi.org/10.1007/978-981-96-0151-6_31, Registrované v: WOS
52. [1.1] HE, Fan - XIN, Xiangjun - LI, Chaoyang - LI, Fagen. Security analysis

of the semi-quantum secret-sharing protocol of specific bits and its improvement. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 2, art. no. 51. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-023-04255-z>, Registrované v: WOS

53. [1.1] HOU, Min - SUN, Shi-Yao - ZHANG, Wei. Quantum private comparison for the socialist millionaire problem. In *FRONTIERS IN PHYSICS*, 2024, vol. 12, no., art. no. 1408446. ISSN 2296-424X. Dostupné na: <https://doi.org/10.3389/fphy.2024.1408446>, Registrované v: WOS

54. [1.1] HOU, Min - WU, Yue. Efficient Quantum Private Comparison with Unitary Operations. In *MATHEMATICS*, 2024, vol. 12, no. 22, art. no. 3541. Dostupné na: <https://doi.org/10.3390/math12223541>, Registrované v: WOS

55. [1.1] HOU, Min - WU, Yue. Single-photon-based quantum secure protocol for the socialist millionaires' problem. In *FRONTIERS IN PHYSICS*, 2024, vol. 12, no., art. no. 1364140. ISSN 2296-424X. Dostupné na: <https://doi.org/10.3389/fphy.2024.1364140>, Registrované v: WOS

56. [1.1] HOU, Yan-Yan - XU, Tao - LI, Jian - YE, Chong-Qiang - WANG, Zhuo - LIU, Xin-Yu. Circular semi-quantum secret sharing based on hybrid single particle and GHZ-type states. In *LASER PHYSICS LETTERS*, 2024, vol. 21, no. 2, art. no. 025202. ISSN 1612-2011. Dostupné na: <https://doi.org/10.1088/1612-202X/ad1aab>, Registrované v: WOS

57. [1.1] HOUSHMAND, Monireh - HASSANPOUR, Shima - HAGHPARAST, Majid. An efficient controlled semi-quantum secret sharing protocol with entangled state. In *OPTICAL AND QUANTUM ELECTRONICS*, 2024, vol. 56, no. 5, art. no. 759. ISSN 0306-8919. Dostupné na: <https://doi.org/10.1007/s11082-024-06434-3>, Registrované v: WOS

58. [1.1] HU, WenWen - YE, Wei - YANG, YouFeng. Multiparty sharing of quantum images based on product state of maximally entangled GHZ state. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 6, art. no. 238. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04430-w>, Registrované v: WOS

59. [1.1] HU, Yanglin - TOMAMICHEL, Marco. Fundamental limits on quantum cloning from the no-signaling principle. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 2, art. no. 022221. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.022221>, Registrované v: WOS

60. [1.1] HU, Zuqiao - DONG, Yumin. A new quantum group blind signature scheme based on GHZ states. In *JOURNAL OF APPLIED PHYSICS*, 2024, vol. 135, no. 20, art. no. 204401. ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/5.0190064>, Registrované v: WOS

61. [1.1] JAIN, Rashi - ADHIKARI, Satyabrata. Modified six-state cryptographic protocol with entangled ancilla states. In *EUROPEAN PHYSICAL JOURNAL D*, 2024, vol. 78, no. 12, art. no. 145. ISSN 1434-6060. Dostupné na: <https://doi.org/10.1140/epjd/s10053-024-00934-3>, Registrované v: WOS

62. [1.1] JIANG, Guixin - LI, Zixian - WANG, Haibin - JHA, Sunil Kumar. Quantum Secure Clockwise Sorting. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 6, art. no. 141. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05676-x>, Registrované v: WOS

63. [1.1] JIANG, Huan-Yao - NIE, Min - YANG, Guang - SUN, Ai-Jing - ZHANG, Mei-Ling - PEI, Chang-Xing. Improvement and security analysis of multi-ring discrete modulation continuous variable quantum secret sharing scheme. In *CHINESE PHYSICS B*, 2024, vol. 33, no. 7, art. no. 070303. ISSN 1674-1056. Dostupné na: <https://doi.org/10.1088/1674-1056/ad3b81>, Registrované v: WOS

64. [1.1] JING, Xu - QIAN, Cheng - WENG, Chen-Xun - LI, Bing-Hong - CHEN,

Zhe - WANG, Chen-Quan - TANG, Jie - GU, Xiao-Wen - KONG, Yue-Chan - CHEN, Tang-Sheng - YIN, Hua-Lei - JIANG, Dong - NIU, Bin - LU, Liang-Liang. Experimental quantum Byzantine agreement on a three-user quantum network with integrated photonics. In *SCIENCE ADVANCES*, 2024, vol. 10, no. 34, art. no. eadp2877. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.adp2877>, Registrované v: WOS

65. [1.1] KAO, Wei-Ting - HUANG, Chien-Ying - TSAI, Tung-Ju - CHEN, Shih-Hsuan - SUN, Sheng-Yan - LI, Yu-Cheng - LIAO, Teh-Lu - CHUU, Chih-Sung - LU, He - LI, Che-Ming. Scalable determination of multipartite entanglement in quantum networks. In *NPJ QUANTUM INFORMATION*, 2024, vol. 10, no. 1, art. no. 73. Dostupné na: <https://doi.org/10.1038/s41534-024-00867-0>, Registrované v: WOS

66. [1.1] KAUR, Hargeet - SHAH, Kavita - SWAIN, Debabrata - SHAH, Kaushal. Secret Information Sharing using Multipartite Entanglement in Monty Hall Game. In *PHOTONIC NETWORK COMMUNICATIONS*, 2024, vol. 48, no. 1-3, pp. 18-25. ISSN 1387-974X. Dostupné na: <https://doi.org/10.1007/s11107-024-01017-4>, Registrované v: WOS

67. [1.1] KECHRIMPARIS, Spiros - MORAN, James - KARSA, Athena - LEE, Changhyoup - KWON, Hyukjoon. Enhancing quantum state discrimination with indefinite causal order. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 12, art. no. 123030. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ada05e>, Registrované v: WOS

68. [1.1] KIRSANOV, Nikita - PASTUSHENKO, Valeria - KODUKHOV, Aleksei - ALIEV, Aziz - YAROVIKOV, Michael - STRIZHAK, Daniel - ZARUBIN, Ilya - SMIRNOV, Alexander - PFLITSCH, Markus - VINOKUR, Valerii. Loss Control-Based Key Distribution under Quantum Protection. In *ENTROPY*, 2024, vol. 26, no. 6, art. no. 437. Dostupné na: <https://doi.org/10.3390/e26060437>, Registrované v: WOS

69. [1.1] LAI, Hong - WAN, Lin-Chun. Dynamic and scalable secret sharing schemes based on matrix product compressed states. In *ACTA PHYSICA SINICA*, 2024, vol. 73, no. 18, art. no. 180302. ISSN 1000-3290. Dostupné na: <https://doi.org/10.7498/aps.73.20240191>, Registrované v: WOS

70. [1.1] LI, Fulin - CHEN, Tingyan - LI, Meng - LIN, Changlu. Efficient and Verifiable General Quantum Secret Sharing Based on Special Entangled State. In *IEEE INTERNET OF THINGS JOURNAL*, 2024, vol. 11, no. 8, pp. 14127-14135. ISSN 2327-4662. Dostupné na: <https://doi.org/10.1109/JIOT.2023.3339715>, Registrované v: WOS

71. [1.1] LI, Fulin - LIU, Zhuo - LIU, Li - ZHU, Shixin. A rational hierarchical (t,n)-threshold quantum secret sharing scheme. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 2, art. no. 60. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04269-1>, Registrované v: WOS

72. [1.1] LI, Fulin - WU, Qingao - LIN, Changlu - ZHU, Shixin. A threshold changeable dynamic quantum secret sharing scheme with cheating identification. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 10, art. no. 358. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04572-x>, Registrované v: WOS

73. [1.1] LI, Fulin - WU, Qingao - LIN, Changlu - ZHU, Shixin. Standard (k, n)-threshold hierarchical quantum secret sharing. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 5, art. no. 168. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04378-x>, Registrované v: WOS

74. [1.1] LI, Guo-Dong - LIU, Jia-Cheng - WANG, Qing-Le - SUN, Wen-Qi. Employing Single Photons for Measurement-Device-Independent Quantum Secure

- Direct Communication With Identity Authentication. In IEEE COMMUNICATIONS LETTERS*, 2024, vol. 28, no. 3, pp. 473-477. ISSN 1089-7798. Dostupné na: <https://doi.org/10.1109/LCOMM.2024.3354250>, Registrované v: WOS
75. [1.1] LI, Huijie - SHI, Run-Hua - JIA, Qianqian. Quantum secure multiparty computing XOR protocol based on single photons and its application in quantum secure communications for intelligence agents. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 8, art. no. 085101. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad59d8>, Registrované v: WOS
76. [1.1] LI, Lei - LI, Zhi. The quantum secret sharing schemes based on hyperstar access structures. In *INFORMATION SCIENCES*, 2024, vol. 664, no., art. no. 120202. ISSN 0020-0255. Dostupné na: <https://doi.org/10.1016/j.ins.2024.120202>, Registrované v: WOS
77. [1.1] LI, Lele - HAN, Zhaowei - LI, Zhihui - GUAN, Feiting - ZHANG, Li. Authenticable dynamic quantum multi-secret sharing based on the Chinese remainder theorem. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 2, art. no. 46. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-023-04236-2>, Registrované v: WOS
78. [1.1] LI, MingYang - CAO, Xiao-Yu - XIE, Yuan-Mei - YIN, Hua-Lei - CHEN, Zeng-Bing. Finite-key analysis for coherent one-way quantum key distribution. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 1, art. no. 013022. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.013022>, Registrované v: WOS
79. [1.1] LI, Nicky Kai Hong - SPEE, Cornelia - HEBENSTREIT, Martin - VICENTE, Julio I. de - KRAUS, Barbara. Identifying families of multipartite states with non-trivial local entanglement transformations. In *QUANTUM*, 2024, vol. 8, no., pp. 1-23. ISSN 2521-327X., Registrované v: WOS
80. [1.1] LI, Xiang-Xi - JI, Qi - YANG, Zhe - YUAN, Rui-Yang - REN, Bao-Cang. Logical Bell state measurement for photon system in momentum and polarization degrees of freedom. In *SCIENTIA SINICA-PHYSICA MECHANICA & ASTRONOMICA*, 2024, vol. 54, no. 8, art. no. 280311. ISSN 1674-7275. Dostupné na: <https://doi.org/10.1360/SSPMA-2023-0439>, Registrované v: WOS
81. [1.1] LI, Yuan - ZHANG, Hao - ZHANG, Chen - HUANG, Tao - YU, F. Richard. A Survey of Quantum Internet Protocols From a Layered Perspective. In *IEEE COMMUNICATIONS SURVEYS AND TUTORIALS*, 2024, vol. 26, no. 3, pp. 1606-1634. Dostupné na: <https://doi.org/10.1109/COMST.2024.3361662>, Registrované v: WOS
82. [1.1] LIAN, Jiang-Yuan - YE, Tian-Yu. Hybrid protocols for multi-party semiquantum private comparison, multiplication and summation without a pre-shared key based on d-dimensional single-particle states. In *EPJ QUANTUM TECHNOLOGY*, 2024, vol. 11, no. 1, art. no. 17. ISSN 2662-4400. Dostupné na: <https://doi.org/10.1140/epjqt/s40507-024-00228-y>, Registrované v: WOS
83. [1.1] LIN, Jason - CHEN, ChangChi - HUANG, Chung-Yung. Efficient dynamic quantum secret sharing in pre-measurement and post-measurement phases. In *PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS*, 2024, vol. 638, no., art. no. 129615. ISSN 0378-4371. Dostupné na: <https://doi.org/10.1016/j.physa.2024.129615>, Registrované v: WOS
84. [1.1] LIU, Bin - LIANG, Zhonghao - HUANG, Wei - GAO, Fei - YUAN, Jiayi - XU, Bingjie. Decoy-state quantum-key-distribution-based quantum private query with error tolerance bound. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 5, art. no. 052442. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.052442>, Registrované v: WOS
85. [1.1] LIU, Cheng - DU, Mingming - ZHONG, Wei - SHENG, Yubo - ZHOU,

Lan. Multi-party quantum secure direct communication protocol with identity authentication based on multi-photon entanglement. In *CHINESE SCIENCE BULLETIN-CHINESE*, 2024, vol. 69, no. 11, pp. 1491-1500. ISSN 0023-074X. Dostupné na: <https://doi.org/10.1360/TB-2023-1150>, Registrované v: WOS

86. [1.1] LIU, Huijuan. Security analysis and improvement on the (T,N) threshold semiquantum secret sharing. In *MODERN PHYSICS LETTERS A*, 2024, vol. 39, no. 39, art. no. 2450190. ISSN 0217-7323. Dostupné na: <https://doi.org/10.1142/S0217732324501906>, Registrované v: WOS

87. [1.1] LIU, Miao - MAIHEMUTI, Nueraminimu - PENG, Jiayin. Controlled bidirectional remote implementations of partially unknown quantum operations. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 4, art. no. 045109. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad2d9d>, Registrované v: WOS

88. [1.1] LIU, Yu-Chen - CHENG, Yuan-Bin - PAN, Xing-Bo - SUN, Ze-Zhou - PAN, Dong - LONG, Gui-Lu. Quantum integrated sensing and communication via entanglement. In *PHYSICAL REVIEW APPLIED*, 2024, vol. 22, no. 3, art. no. 034051. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.22.034051>, Registrované v: WOS

89. [1.1] LUO, Cheng-Chen - ZHOU, Lan - ZHONG, Wei - DU, Ming-Ming - LI, Xi-Yun - SHENG, Yu-Bo. Purification for Hybrid Entanglement between Discrete- and Continuous-Variable States. In *ANNALEN DER PHYSIK*, 2024, vol. 536, no. 5. ISSN 0003-3804. Dostupné na: <https://doi.org/10.1002/andp.202300494>, Registrované v: WOS

90. [1.1] LUO, Ming-Xing - FEI, Shao-Ming. Verifying Hierarchic Multipartite and Network Nonlocalities with a Unified Method. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 7. Dostupné na: <https://doi.org/10.1002/qute.202400021>, Registrované v: WOS

91. [1.1] MA, Rui-Hai - GAO, Fei - CAI, Bin-Bin - LIN, Song. Quantum Secret Reconstruction. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 2, art. no. 2300273. Dostupné na: <https://doi.org/10.1002/qute.202300273>, Registrované v: WOS

92. [1.1] MA, Shuangquan - CHENG, Xinyuan - ZHANG, Dayang - YU, Youbin - JIN, Guangri - CHEN, Aixi. Bright Tripartite Quantum Steering Generated by Above-Threshold Optical Parametric Oscillation. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 7. Dostupné na: <https://doi.org/10.1002/qute.202400176>, Registrované v: WOS

93. [1.1] MA, Xiyuan - WANG, Chaonan - ZHANG, Lu - SUN, Yan - ZHU, Hongfeng. Layered quantum secret sharing scheme for private data in cloud environment system. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 11, art. no. 375. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04585-6>, Registrované v: WOS

94. [1.1] MA, Yun - SHI, Zhong-Rong - YUAN, Hao. Degrade the implement intensity of tripartite operation sharing using six-qubit entangled state. In *MODERN PHYSICS LETTERS A*, 2024, vol. 39, no. 02, art. no. 2350190. ISSN 0217-7323. Dostupné na: <https://doi.org/10.1142/S0217732323501900>, Registrované v: WOS

95. [1.1] MA, Zhongliang - LI, Jing - WANG, Xianmin - LIU, Feng. Semi-quantum secret sharing protocol with specific bits based on third party. In *LASER PHYSICS LETTERS*, 2024, vol. 21, no. 12, art. no. 125201. ISSN 1612-2011. Dostupné na: <https://doi.org/10.1088/1612-202X/ad821c>, Registrované v: WOS

96. [1.1] MAFU, Mhlambululi. Advances in artificial intelligence and machine learning for quantum communication applications. In *IET QUANTUM COMMUNICATION*, 2024, vol. 5, no. 3, pp. 202-231. Dostupné na:

<https://doi.org/10.1049/qtc2.12094>, Registrované v: WOS

97. [1.1] MAIHEMUTI, Nueraminimu - PENG, Jiayin - YANG, Zhen - ZHAI, Dengxin - TANG, Jiangang. Controlled and Assisted Cloning of an Arbitrary Unknown States via Maximal Slice States. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 1, art. no. 18. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-023-05536-0>, Registrované v: WOS
98. [1.1] MALLA, Rajesh K. - WEICHSELBAUM, Andreas - WEI, Tzu-Chieh - KONIK, Robert M. Detecting Multipartite Entanglement Patterns Using Single-Particle Green's Functions. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 26, art. no. 260202. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.260202>, Registrované v: WOS
99. [1.1] MAWLIA, Priyanka - SIWACH, Vikash - BIJARANIAN, Pankaj - SINGH, Deepak. Quantum secret sharing with (m, n) threshold: QFT and identity authentication. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 10, art. no. 348. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04532-5>, Registrované v: WOS
100. [1.1] MISHRA, Sarika - SINGH, R. P. Transformation of Bell states using linear optics. In *PHYSICS OPEN*, 2024, vol. 18, no., art. no. 100199. ISSN 2666-0326. Dostupné na: <https://doi.org/10.1016/j.physo.2023.100199>, Registrované v: WOS
101. [1.1] MO, Naida - HUANG, Siying - WANG, Jindong - YU, Yafei - WEI, Zhengjun - ZHAO, Tianming - ZHANG, Zhiming. Proof-of-principle demonstration of free space semi-quantum key distribution based on the single-state protocol. In *OPTICS EXPRESS*, 2024, vol. 32, no. 17, pp. 29291-29300. ISSN 1094-4087. Dostupné na: <https://doi.org/10.1364/OE.529300>, Registrované v: WOS
102. [1.1] MOR-RUIZ, Maria Flors - DUER, Wolfgang. Influence of Noise in Entanglement-Based Quantum Networks. In *IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS*, 2024, vol. 42, no. 7, pp. 1793-1807. ISSN 0733-8716. Dostupné na: <https://doi.org/10.1109/JSAC.2024.3380089>, Registrované v: WOS
103. [1.1] OROZCO-RUIZ, Modesto - LE, Nguyen H. - MINTERT, Florian. Quantum Control without Quantum States. In *PRX QUANTUM*, 2024, vol. 5, no. 4, art. no. 040346. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.040346>, Registrované v: WOS
104. [1.1] PAN, Dong - LONG, Gui-Lu - YIN, Liuguo - SHENG, Yu-Bo - RUAN, Dong - NG, Soon Xin - LU, Jianhua - HANZO, Lajos. The Evolution of Quantum Secure Direct Communication: On the Road to the Qinternet. In *IEEE COMMUNICATIONS SURVEYS AND TUTORIALS*, 2024, vol. 26, no. 3, pp. 1898-1949. Dostupné na: <https://doi.org/10.1109/COMST.2024.3367535>, Registrované v: WOS
105. [1.1] PAN, Xing-bo - LEI, YuTing - LI, Xiang-jie - CHEN, Xiu-bo - LONG, Gui-lu. Cross quantum homomorphic encryption based on the butterfly network. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 6, art. no. 062606. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.062606>, Registrované v: WOS
106. [1.1] PENG, Jia-yin - LEI, Hong-xuan - TANG, Jian-gang. Multi-type-output Assisted Cloning of Unknown Single-qubit States. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 1, art. no. 7. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-023-05538-y>, Registrované v: WOS
107. [1.1] PENG, Jiayin - MAIHEMUTI, Nueraminimu - AISAN, Yimamujiang -

- YANG, Zhen. Quantum teleportation of shared high-dimensional quantum secret. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 8, art. no. 085125. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad623d>, Registrované v: WOS
108. [1.1] PIVETEAU, Amelie - ABBOTT, Alastair A. - MUHAMMAD, Sadiq - BOURENNANE, Mohamed - TAVAKOLI, Armin. Weak entanglement improves quantum communication using only product measurements. In *PHYSICAL REVIEW APPLIED*, 2024, vol. 21, no. 3, art. no. 034053. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.21.034053>, Registrované v: WOS
109. [1.1] PONT, Mathias - CORRIELLI, Giacomo - FYRILLAS, Andreas - AGRESTI, Iris - CARVACHO, Gonzalo - MARING, Nicolas - EMERIAU, Pierre-Emmanuel - CECCARELLI, Francesco - ALBIERO, Ricardo - FERREIRA, Paulo Henrique Dias - SOMASCHI, Niccolo - SENELLART, Jean - SAGNES, Isabelle - MORASSI, Martina - LEMAITRE, Aristide - SENELLART, Pascale - SCIARRINO, Fabio - LISCIDINI, Marco - BELABAS, Nadia - OSELLAME, Roberto. High-fidelity four-photon GHZ states on chip. In *NPJ QUANTUM INFORMATION*, 2024, vol. 10, no. 1, art. no. 50. Dostupné na: <https://doi.org/10.1038/s41534-024-00830-z>, Registrované v: WOS
110. [1.1] QI, Ji - LI, Ke - YANG, Zhe - YUAN, Rui-Yang - REN, Bao-Cang. Error identification entanglement purification for stationary system using high-dimensional entanglement. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 4, art. no. 042423. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.042423>, Registrované v: WOS
111. [1.1] QIN, Yue - CHENG, Jialin - MA, Jingxu - ZHAO, Di - YAN, Zhihui - JIA, Xiaojun - XIE, Changde - PENG, Kunchi. Efficient and secure quantum secret sharing for eight users. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 3, art. no. 033036. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.033036>, Registrované v: WOS
112. [1.1] RAISSI, Zahra - BARNES, Edwin - ECONOMOU, Sophia E. Deterministic Generation of Qudit Photonic Graph States from Quantum Emitters. In *PRX QUANTUM*, 2024, vol. 5, no. 2, art. no. 020346. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.020346>, Registrované v: WOS
113. [1.1] RATHI, Deepa - KUMAR, Sanjeev - MUSANNA, Farhan - SINGH, Deepak. Quantum secret sharing protocol through noisy channel with application in visual cryptography. In *CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE*, 2024, vol. 36, no. 2, art. no. e7899. ISSN 1532-0626. Dostupné na: <https://doi.org/10.1002/cpe.7899>, Registrované v: WOS
114. [1.1] RATHI, Deepa - KUMAR, Sanjeev. Quantum multi-secret sharing scheme with access structures and cheat identification. In *INTERNATIONAL JOURNAL OF QUANTUM INFORMATION*, 2024, vol. 22, no. 07, art. no. 2450015. ISSN 0219-7499. Dostupné na: <https://doi.org/10.1142/S0219749924500151>, Registrované v: WOS
115. [1.1] RATHI, Deepa - KUMAR, Sanjeev. Verifiable dynamic quantum secret sharing based on generalized Hadamard gate. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 10, art. no. 328. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04535-2>, Registrované v: WOS
116. [1.1] ROIK, Jan - BARTKIEWICZ, Karol - CERNOCH, Antonin - LEMR, Karel. Routing in quantum communication networks using reinforcement machine learning. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 3, art. no. 89. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04287-z>, Registrované v: WOS
117. [1.1] ROY, Pritam - BERA, Subhankar - GUPTA, Shashank - MAJUMDAR,

A. S. Device-independent quantum secure direct communication under non-Markovian quantum channels. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 5, art. no. 170. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04397-8>, Registrované v: WOS

118. [1.1] SALEM, Vinicius - SILVA, Alison A. - ANDRADE, Fabiano M. Multipartite entanglement sudden death and birth in randomized hypergraph states. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 1, art. no. 012416. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.012416>, Registrované v: WOS

119. [1.1] SANTAGIUSTINA, Francesco B. L. - AGNESI, Costantino - ALARCON, Alvaro - CABELLO, Adan - XAVIER, Guilherme B. - VILLORESI, Paolo - VALLONE, Giuseppe. Experimental post-selection loophole-free time-bin and energy-time nonlocality with integrated photonics. In *OPTICA*, 2024, vol. 11, no. 4, pp. 498-511. ISSN 2334-2536. Dostupné na: <https://doi.org/10.1364/OPTICA.499247>, Registrované v: WOS

120. [1.1] SENTHOOR, Kaushik - SARVEPALLI, Pradeep Kiran. Communication Efficient Quantum Secret Sharing via Extended CSS Codes. In *IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS*, 2024, vol. 42, no. 7, pp. 1818-1829. ISSN 0733-8716. Dostupné na: <https://doi.org/10.1109/JSAC.2024.3380082>, Registrované v: WOS

121. [1.1] SHAO, Q. P. - WANG, J. - JI, Y. Q. - LIU, Y. L. - DONG, L. - XIU, X. M. Utilizing Rydberg superatoms to fuse the W state and the GHZ state. In *JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS*, 2024, vol. 41, no. 1, pp. 143-150. ISSN 0740-3224. Dostupné na: <https://doi.org/10.1364/JOSAB.507157>, Registrované v: WOS

122. [1.1] SHARMA, Priya - GUPTA, Vrinda - SOOD, Sandeep Kumar. Evolution of Quantum Cryptography in Response to the Computational Power of Quantum Computers: An Archival View. In *ARCHIVES OF COMPUTATIONAL METHODS IN ENGINEERING*, 2024, vol. 31, no. 8, pp. 4533-4555. ISSN 1134-3060. Dostupné na: <https://doi.org/10.1007/s11831-024-10122-6>, Registrované v: WOS

123. [1.1] SHI, Wei-Min - BAI, Meng-Xuan - ZHOU, Yi-Hua - YANG, Yu-Guang. Hierarchical quantum rotation operation sharing with multiparty users. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 5, art. no. 196. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04411-z>, Registrované v: WOS

124. [1.1] SHIBATA, Mamoru - MATSUMOTO, Ryutaroh. Advance Sharing of Quantum Shares for Quantum Secrets. In *IEICE TRANSACTIONS ON FUNDAMENTALS OF ELECTRONICS COMMUNICATIONS AND COMPUTER SCIENCES*, 2024, vol. E107A, no. 8, pp. 1247-1254. ISSN 0916-8508. Dostupné na: <https://doi.org/10.1587/transfun.2023EAP1041>, Registrované v: WOS

125. [1.1] SHIRAISHI, Koki - YAMASAKI, Hayata - MURAO, Mio. Efficient local operations and classical communication extraction of quantum information encoded in stabilizer codes. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 5, art. no. 052617. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.052617>, Registrované v: WOS

126. [1.1] SIHARE, Shyam R. Multi-Party Quantum Key Distribution Using Variational Quantum Eigensolvers. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 1. Dostupné na: <https://doi.org/10.1002/qute.202300270>, Registrované v: WOS

127. [1.1] SINGH, Pahulpreet - CHAKRABARTY, Indranil. Controlled state reconstruction and quantum secret sharing. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 3, art. no. 032406. ISSN 2469-9926. Dostupné na:

- <https://doi.org/10.1103/PhysRevA.109.032406>, Registrované v: WOS
128. [1.1] SMITH, Kevin C. - KHAN, Abid - CLARK, Bryan K. - GIRVIN, S. M. - WEI, Tzu-Chieh. Constant-Depth Preparation of Matrix Product States with Adaptive Quantum Circuits. In *PRX QUANTUM*, 2024, vol. 5, no. 3, art. no. 030344. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.030344>, Registrované v: WOS
129. [1.1] SONG, Ai-li - PENG, Jiayin - MAIHEMUTI, Nueraminaimu - AISAN, Yimamujiang - TANG, Jiangang. Quantum Communication Based on Decoherence Suppression Via Weak Measurement and Environment-Assisted Measurement. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 7, art. no. 165. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05702-y>, Registrované v: WOS
130. [1.1] SONG, Xiuli - LI, Chuang. Dynamic Quantum Secret Sharing Scheme Based on Nonlocal Orthogonal Product States. In *JOURNAL OF ELECTRONICS & INFORMATION TECHNOLOGY*, 2024, vol. 46, no. 3, pp. 1109-1118. ISSN 1009-5896. Dostupné na: <https://doi.org/10.11999/JEIT230193>, Registrované v: WOS
131. [1.1] SRINIDHI, P. - CHAKRABARTY, Indranil - BHATTACHARYA, Samyadeb - GANGULY, Nirman. Quantum channels that destroy negative conditional entropy. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 4, art. no. 042423. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.042423>, Registrované v: WOS
132. [1.1] SU, Weijie - SITU, Haozhen - HUANG, Qiong - ZHANG, Cai. Verifiable multi-party quantum secret sharing based on GHZ states. In *INTERNATIONAL JOURNAL OF QUANTUM INFORMATION*, 2024, vol. 22, no. 04. ISSN 0219-7499. Dostupné na: <https://doi.org/10.1142/S021974992350048X>, Registrované v: WOS
133. [1.1] SUN, Yan - WANG, Chaonan - ZHANG, Lu - ZHU, Hongfeng. A novel scalable three-level hierarchical quantum information splitting scheme for two-qubit unknown states. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 8, art. no. 295. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04506-7>, Registrované v: WOS
134. [1.1] TAKAGI, Tsubasa - CANH MINH DO - OGATA, Kazuhiro. Automated Quantum Program Verification in Dynamic Quantum Logic. In *DYNAMIC LOGIC. NEW TRENDS AND APPLICATIONS, DALI 2023*, 2024, vol. 14401, no., pp. 68-84. ISSN 0302-9743. Dostupné na: https://doi.org/10.1007/978-3-031-51777-8_5, Registrované v: WOS
135. [1.1] TAKOU, Evangelia - BARNES, Edwin - ECONOMOU, Sophia E. Generation of genuine all-way entanglement in defect nuclear spin systems through dynamical decoupling sequences. In *QUANTUM*, 2024, vol. 8, no., pp. 1-43. ISSN 2521-327X., Registrované v: WOS
136. [1.1] TIAN, Yuan - WANG, Jialong - BIAN, Genqing - CHANG, Jinyong - LI, Jian. Dynamic Multi-Party to Multi-Party Quantum Secret Sharing based on Bell States. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 7. Dostupné na: <https://doi.org/10.1002/qute.202400116>, Registrované v: WOS
137. [1.1] TRUONG MINH DUC - TRAN QUANG DAT. Enhancement of teleportation average fidelity via photon addition operation. In *48TH VIETNAM CONFERENCE ON THEORETICAL PHYSICS, VCTP-48*, 2024, vol. 2744, no., art. no. 012002. ISSN 1742-6588. Dostupné na: <https://doi.org/10.1088/1742-6596/2744/1/012002>, Registrované v: WOS
138. [1.1] TSAI, Chia-Wei - LIN, Jason - YANG, Chun-Wei. Cryptanalysis and improvement of quantum secure multi-party summation using single photons. In

PHYSICA SCRIPTA, 2024, vol. 99, no. 3, art. no. 035114. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad275a>, Registrované v: WOS 139. [1.1] TSAI, Chia-Wei - WANG, Chun-Hsiang. Multi-party quantum key distribution protocol in quantum network. In EPJ QUANTUM TECHNOLOGY, 2024, vol. 11, no. 1, art. no. 63. ISSN 2662-4400. Dostupné na: <https://doi.org/10.1140/epjqt/s40507-024-00275-5>, Registrované v: WOS 140. [1.1] VALERI, Mauro - BARIGELLI, Paolo - POLACCHI, Beatrice - RODARI, Giovanni - DE SANTIS, Gianluca - GIORDANI, Taira - CARVACHO, Gonzalo - SPAGNOLO, Nicolo - SCIARRINO, Fabio. Generation and characterization of polarization-entangled states using quantum dot single-photon sources. In QUANTUM SCIENCE AND TECHNOLOGY, 2024, vol. 9, no. 2, art. no. 025002. ISSN 2058-9565. Dostupné na: <https://doi.org/10.1088/2058-9565/ad1c44>, Registrované v: WOS 141. [1.1] VERMA, Vikram. Quantum information splitting among N-quantum nodes within a quantum network by using Bell states. In PHYSICA SCRIPTA, 2024, vol. 99, no. 7, art. no. 075116. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad57fe>, Registrované v: WOS 142. [1.1] WAKAKUWA, Eyuri. Quantum Multiple-Access One-Time Pad. In IEEE TRANSACTIONS ON INFORMATION THEORY, 2024, vol. 70, no. 1, pp. 336-348. ISSN 0018-9448. Dostupné na: <https://doi.org/10.1109/TIT.2023.3320678>, Registrované v: WOS 143. [1.1] WALLNOEFER, Julius - HAHN, Frederik - WIESNER, Fabian - WALK, Nathan - EISERT, Jens. Faithfully Simulating Near-Term Quantum Repeaters. In PRX QUANTUM, 2024, vol. 5, no. 1, art. no. 010351. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.010351>, Registrované v: WOS 144. [1.1] WANG, Guanghui - LI, Zhiyuan - QIN, Xuan - YANG, Zhengcai - LI, Xinke - WU, Xiao - ZHOU, Yuan - CHEN, Yaojia. Photon-phonon entanglement and spin squeezing via dynamically strain-mediated Kerr nonlinearity in dressed nitrogen-vacancy centers. In OPTICS AND LASER TECHNOLOGY, 2024, vol. 176, no., art. no. 110984. ISSN 0030-3992. Dostupné na: <https://doi.org/10.1016/j.optlastec.2024.110984>, Registrované v: WOS 145. [1.1] WANG, Jingyao - WANG, Xin. Theoretical concept of error-rejecting entanglement purification of quantum-dots electronic spins in single-sided optical microcavity. In NEW JOURNAL OF PHYSICS, 2024, vol. 26, no. 8, art. no. 083015. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad6bb7>, Registrované v: WOS 146. [1.1] WANG, Meng-Ya - BAI, Chen-Ming - FENG, Ya-Nan - ZHANG, Sujuan - LIU, Lu. Masking quantum information in multipartite systems based on generator matrices. In LASER PHYSICS, 2024, vol. 34, no. 5, art. no. 055203. ISSN 1054-660X. Dostupné na: <https://doi.org/10.1088/1555-6611/ad35b5>, Registrované v: WOS 147. [1.1] WANG, Min - LONG, Gui-Lu. Lattice-based access authentication scheme for quantum communication networks. In SCIENCE CHINA-INFORMATION SCIENCES, 2024, vol. 67, no. 12, art. no. 222501. ISSN 1674-733X. Dostupné na: <https://doi.org/10.1007/s11432-024-4177-5>, Registrované v: WOS 148. [1.1] WANG, Ping - CAO, Longhuai - HU, Yong - SUN, Zhiwei. Consensus algorithms based on collusion resistant publicly verifiable random number seeds. In COMPUTER STANDARDS & INTERFACES, 2024, vol. 90, no., art. no. 103853. ISSN 0920-5489. Dostupné na: <https://doi.org/10.1016/j.csi.2024.103853>, Registrované v: WOS 149. [1.1] WANG, Qing-le - WANG, Ying-ying - LI, Yuan-cheng - LI, Guo-dong -

HAN, Yun-guang - CHENG, Long. A secure dynamic quantum anonymous secret sharing protocol utilizing GHZ states. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 10, art. no. 105115. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad75cc>, Registrované v: WOS

150. [1.1] WANG, Shuchan - WUNDER, Gerhard. A Causal Model for Quantifying Multipartite Classical and Quantum Correlations. In *2024 IEEE INTERNATIONAL SYMPOSIUM ON INFORMATION THEORY, ISIT 2024*, 2024, vol., no., pp. 339-344. ISSN 2157-8095. Dostupné na: <https://doi.org/10.1109/ISIT57864.2024.10619265>, Registrované v: WOS

151. [1.1] WANG, Yanmeng - JIANG, Min - WEI, Yuzhen - ZHAO, Wenhao. Quantum anonymous one vote veto protocol based on entanglement swapping. In *IET QUANTUM COMMUNICATION*, 2024, vol. 5, no. 4, pp. 641-649. Dostupné na: <https://doi.org/10.1049/qtc2.12117>, Registrované v: WOS

152. [1.1] WANG, Yuan-Zhuo - SUN, Xiao-Ran - CAO, Xiao-Yu - YIN, Hua-Lei - CHEN, Zeng-Bing. Experimental coherent-state quantum secret sharing with finite pulses. In *PHYSICAL REVIEW APPLIED*, 2024, vol. 22, no. 4, art. no. 044018. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.22.044018>, Registrované v: WOS

153. [1.1] WIESNER, Fabian - CHRZANOWSKI, Helen M. - PIEPLOW, Gregor - SCHROEDER, Tim - PAPPA, Anna - WOLTERS, Janik. The influence of experimental imperfections on photonic GHZ state generation. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 11, art. no. 113021. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad916f>, Registrované v: WOS

154. [1.1] WU, Shu-Min - LI, Jin-Xuan - JIANG, Xiao-Ying - TENG, Xiao-Wei - HUANG, Xiao-Li - LU, Jianbo. Fermionic steering is not nonlocal in the background of dilaton black hole. In *EUROPEAN PHYSICAL JOURNAL C*, 2024, vol. 84, no. 2, art. no. 161. ISSN 1434-6044. Dostupné na: <https://doi.org/10.1140/epjc/s10052-024-12526-x>, Registrované v: WOS

155. [1.1] WU, Shu-Min - TENG, Xiao-Wei - HUANG, Xiao-Li - LU, Jianbo. Genuine N-partite entanglement in Schwarzschild-de Sitter black hole spacetime. In *EUROPEAN PHYSICAL JOURNAL C*, 2024, vol. 84, no. 11, art. no. 1228. ISSN 1434-6044. Dostupné na: <https://doi.org/10.1140/epjc/s10052-024-13602-y>, Registrované v: WOS

156. [1.1] WU, Shu-Min - TENG, Xiao-Wei - LI, Jin-Xuan - LI, Si-Han - LIU, Tong-Hua - WANG, Jie-Ci. Genuinely accessible and inaccessible entanglement in Schwarzschild black hole. In *PHYSICS LETTERS B*, 2024, vol. 848, no., art. no. 138334. ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2023.138334>, Registrované v: WOS

157. [1.1] WU, Xiao-Dong - DUAN, Huang. Practical continuous variable quantum secret sharing scheme based on non-ideal quantum state preparation. In *ACTA PHYSICA SINICA*, 2024, vol. 73, no. 2, art. no. 020304. ISSN 1000-3290. Dostupné na: <https://doi.org/10.7498/aps.73.20230138>, Registrované v: WOS

158. [1.1] WU, Yimiao - TIAN, Long - YAO, Wenxiu - SHI, Shaoping - LIU, Xuan - LU, Bo - WANG, Yajun - ZHENG, Yaohui. Continuous variable quantum teleportation network with star topology. In *APPLIED PHYSICS LETTERS*, 2024, vol. 124, no. 11, art. no. 114002. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0191643>, Registrované v: WOS

159. [1.1] XIAO, Yi-Ran - JIA, Zhao-Ying - SONG, Yu-Chen - BAO, Yu - FU, Yao - YIN, Hua-Lei - CHEN, Zeng-Bing. Source-independent quantum secret sharing with entangled photon pair networks. In *OPTICS LETTERS*, 2024, vol. 49, no. 15, pp. 4210-4213. ISSN 0146-9592. Dostupné na: <https://doi.org/10.1364/OL.527857>, Registrované v: WOS

160. [1.1] XIE, Chuanmei - TIAN, Senbo - XIE, Zekai - YU, Jinhua - ZHANG, Zhanjun. Quantum correlation swapping between Bell-diagonal states. In *LASER PHYSICS*, 2024, vol. 34, no. 9, art. no. 095204. ISSN 1054-660X. Dostupné na: <https://doi.org/10.1088/1555-6611/ad6d4e>, Registrované v: WOS
161. [1.1] XIN, Xiangjun - HE, Fan - LI, Chaoyang - LI, Fagen. Multiparty semi-quantum secret sharing protocol based on single photon sequence and permutation. In *MODERN PHYSICS LETTERS A*, 2024, vol. 39, no. 17N18, art. no. 2450084. ISSN 0217-7323. Dostupné na: <https://doi.org/10.1142/S0217732324500846>, Registrované v: WOS
162. [1.1] XIN, Xiangjun - HE, Fan - QIU, Shujing - LI, Chaoyang - LI, Fagen. Efficient multi-party quantum secret-sharing protocol. In *CHINESE JOURNAL OF PHYSICS*, 2024, vol. 92, no., pp. 664-674. ISSN 0577-9073. Dostupné na: <https://doi.org/10.1016/j.cjph.2024.10.008>, Registrované v: WOS
163. [1.1] XING, Yabin - HONG, Yan - GAO, Limin - GAO, Ting - YAN, Fengli. Efficient detection for quantum states containing fewer than k unentangled particles in multipartite quantum systems. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 1, art. no. 24. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-023-04233-5>, Registrované v: WOS
164. [1.1] XIONG, Si-Yu - BAI, Ming-Qiang - MO, Zhi-Wen. The construction of quantum network model based on formalized theory. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 4, art. no. 045122. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad3485>, Registrované v: WOS
165. [1.1] XIU, Xiao-Ming - LIU, Si-Tong - WANG, Xin-Ying - LV, Liu - ZHAO, Zi-Lin - YUAN, Zi-Qing - CHEN, Si-Ge - ZHANG, Xin-Yi - YANG, Zi-Long - JI, Yan-Qiang - DONG, Li. Two-partite entanglement purification assisted by quantum-dot spins inside single-sided optical microcavities. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 4, art. no. 116. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04324-x>, Registrované v: WOS
166. [1.1] YANG, Kui-Xing - MAO, Ya-Li - CHEN, Hu - DONG, Xiduo - ZHU, Jiankun - WU, Jizhou - LI, Zheng-Da. Experimental Measurement-Device-Independent Quantum Conference Key Agreement. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 21, art. no. 210803. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.210803>, Registrované v: WOS
167. [1.1] YE, Biao-Liang - WU, Qi-Cheng - GUO, Bao-Qing - ZHAO, Jun-Long - FANG, Yu-Liang - ZHOU, Yan-Hui. Steered quantum coherence and entropic uncertainty relation in the cluster Ising model. In *JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT*, 2024, vol. 2024, no. 9, art. no. 093102. ISSN 1742-5468. Dostupné na: <https://doi.org/10.1088/1742-5468/ad6df3>, Registrované v: WOS
168. [1.1] YE, Zhiyuan - DING, Chen-xin - MEN, Xue-jiao - WANG, Hai-bo - XIONG, Jun. Hanbury Brown and Twiss-type optical secret sharing. In *OPTICS EXPRESS*, 2024, vol. 32, no. 25, pp. 45142-45157. ISSN 1094-4087. Dostupné na: <https://doi.org/10.1364/OE.541294>, Registrované v: WOS
169. [1.1] YEHIA, Raja - SCHIAVON, Matteo - ACOSTA, Valentina Marulanda - COOPMANS, Tim - KERENIDIS, Iordanis - ELKOUSS, David - DIAMANTI, Eleni. Connecting quantum cities: simulation of a satellite-based quantum network. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 7, art. no. 073015. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad5b13>, Registrované v: WOS
170. [1.1] YOUNES, Mustapha Anis - ZEBBOUDJ, Sofia - GHARBI, Abdelhakim. A Lightweight and Efficient Multiparty Semi-Quantum Secret Sharing Protocol

Using Entangled States for Sharing Specific Bit. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, 2024, vol. 63, no. 11, art. no. 292. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05834-1>, Registrované v: WOS

171. [1.1] YOUNES, Mustapha Anis - ZEBBOUDJ, Sofia - GHARBI, Abdelhakim. A Multiparty Efficient Semi-quantum Secret Sharing Protocol of Specific Bits. In *QUANTUM COMPUTING: APPLICATIONS AND CHALLENGES*, QSAC 2023, 2024, vol. 2, no., pp. 167-178. ISSN 3004-958X. Dostupné na:

https://doi.org/10.1007/978-3-031-59318-5_13, Registrované v: WOS

172. [1.1] YUAN, Hao - XUE, Xin-Xia - PAN, Guo-Zhu - FANG, Jie. Simultaneous Quantum Teleportation for One Sender and Two Receivers with Four-qubit Cluster State. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 6, art. no. 143. ISSN 0020-7748. Dostupné na:

<https://doi.org/10.1007/s10773-024-05679-8>, Registrované v: WOS

173. [1.1] ZENG, Hui - DU, Ming-Ming - ZHONG, Wei - ZHOU, Lan - SHENG, Yu-Bo. High-capacity device-independent quantum secure direct communication based on hyper-encoding. In *FUNDAMENTAL RESEARCH*, 2024, vol. 4, no. 4, pp. 851-857. ISSN 2096-9457. Dostupné na:

<https://doi.org/10.1016/j.fmre.2023.11.006>, Registrované v: WOS

174. [1.1] ZHA, Xinwei. Searching for an absolutely maximally five-level entangled state. In *LASER PHYSICS*, 2024, vol. 34, no. 12, art. no. 125202. ISSN 1054-660X. Dostupné na: <https://doi.org/10.1088/1555-6611/ad873c>, Registrované v: WOS

175. [1.1] ZHAI, Deng-xin - PENG, Jia-yin - MAIHEMUTI, Nueraminaimu - TANG, Jian-gang. Assisted Cloning of an Arbitrary Unknown d-Dimension State. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 6, art. no. 152. ISSN 0020-7748. Dostupné na:

<https://doi.org/10.1007/s10773-024-05694-9>, Registrované v: WOS

176. [1.1] ZHAI, Dengxin - PENG, Jiayin - MAIHEMUTI, Nueraminaimu - TANG, Jiangang. Assisted cloning of an unknown shared quantum state. In *PLOS ONE*, 2024, vol. 19, no. 8, art. no. e0305718. ISSN 1932-6203. Dostupné na:

<https://doi.org/10.1371/journal.pone.0305718>, Registrované v: WOS

177. [1.1] ZHANG, Qi - ZHONG, Wei - DU, Ming-Ming - SHEN, Shu-Ting - LI, Xi-Yun - ZHANG, An-Lei - ZHOU, Lan - SHENG, Yu-Bo. Device-independent quantum secret sharing with noise preprocessing and postselection. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 4, art. no. 042403. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.110.042403>, Registrované v: WOS

178. [1.1] ZHANG, Wei-Yue - WANG, Cai-Qing - JI, Yan-Qiang - SHAO, Qiu-Ping - WANG, Ji-Ping - WANG, Jie - YANG, Li-Ping - DONG, Li - XIU, Xiao-Ming. Fast Preparation of W States by Designing the Evolution Operators with Rydberg Superatom. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 1. Dostupné na: <https://doi.org/10.1002/qute.202300140>, Registrované v: WOS

179. [1.1] ZHANG, Xiao-Dong - CAI, Bin-Bin - LIN, Song. Quantum multigraph states and multihypergraph states. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 6, art. no. 062407. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.109.062407>, Registrované v: WOS

180. [1.1] ZHANG, Zheng - QI, Ji - YANG, Zhe - YUAN, Rui-Yang - REN, Bao-Cang. Universal Highly Effective Entanglement Purification with Single-Copy Hyperentangled State. In *ANNALEN DER PHYSIK*, 2024, vol. 536, no. 5. ISSN 0003-3804. Dostupné na: <https://doi.org/10.1002/andp.202300447>, Registrované v: WOS

181. [1.1] ZHANG, Zheshen - YOU, Chenglong - MAGANA-LOAIZA, Omar S. - FICKLER, Robert - LEON-MONTIEL, Roberto De J. - TORRES, Juan P. - HUMBLE, Travis S. - LIU, Shuai - XIA, Yi - ZHUANG, Quntao. Entanglement-based quantum information technology: a tutorial. In *ADVANCES IN OPTICS AND PHOTONICS*, 2024, vol. 16, no. 1, pp. 60-162. ISSN 1943-8206. Dostupné na: <https://doi.org/10.1364/AOP.497143>, Registrované v: WOS
182. [1.1] ZHAO, Meng-Yuan - WU, Zi-Ming - YAN, Bin - PAN, Jeng-Shyang - YANG, Hong-Mei. Quantum Visual Secret Sharing Based on Position Superposition. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 9, art. no. 214. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05753-1>, Registrované v: WOS
183. [1.1] ZHAO, Peng - ZHONG, Wei - DU, Ming-Ming - LI, Xi-Yun - ZHOU, Lan - SHENG, Yu-Bo. Quantum secure direct communication with hybrid entanglement. In *FRONTIERS OF PHYSICS*, 2024, vol. 19, no. 5, art. no. 51201. ISSN 2095-0462. Dostupné na: <https://doi.org/10.1007/s11467-024-1396-5>, Registrované v: WOS
184. [1.1] ZHOU, Jie - LI, Ming - WANG, Weiting - CAI, Weizhou - HUA, Ziyue - XU, Yifang - PAN, Xiaoxuan - XUE, Guangming - ZHANG, Hongyi - SONG, Yipu - YU, Haifeng - ZOU, Chang-Ling - SUN, Luyan. Quantum State Transfer between Superconducting Cavities via Exchange-Free Interactions. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 22, art. no. 220801. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.220801>, Registrované v: WOS
185. [1.1] ZHOU, Linxiang - XU, Qiao - FENG, Tianfeng - ZHOU, Xiaoqi. Experimental realization of a three-photon asymmetric maximally entangled state and its application to quantum state transfer. In *SCIENCE ADVANCES*, 2024, vol. 10, no. 25, art. no. eadj9251. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.adj9251>, Registrované v: WOS
186. [1.1] ZHOU, Tianai - CHEN, Xiu-Bo - XU, Gang - GUO, Ying. Authenticated hierarchical quantum state sharing based on non-maximally entangled states. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 9, art. no. 095127. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad6b50>, Registrované v: WOS
187. [1.1] ZHU, Peng-Hui - ZHONG, Wei - DU, Ming-Ming - LI, Xi-Yun - ZHOU, Lan - SHENG, Yu-Bo. One-step quantum dialogue. In *CHINESE PHYSICS B*, 2024, vol. 33, no. 3, art. no. 030302. ISSN 1674-1056. Dostupné na: <https://doi.org/10.1088/1674-1056/ad1c5c>, Registrované v: WOS

ADCA323

HILTON, J.** - UUSITALO, J. - SARÉN, J. - PAGE, R. D. - JOSS, D. T. - ALAQEEL, M. A. M. - BADRAN, H. - BRISCOE, A. D. - CALVERLEY, T. - COX, D. M. - GRAHN, T. - GREDLEY, A. - GREENLEES, P. T. - HARDING, R. - HERZÁŇ, Andrej - HIGGINS, E. - JULIN, R. - JUUTINEN, S. - KONKI, J. - LABICHE, M. - LEINO, M. - LEWIS, M. C. - OJALA, J. - PAKARINEN, J. - PAPADAKIS, P. - PARTANEN, J. - RAHKILA, P. - RUOTSALAINEN, P. - SANDZELIUS, M. - SCHOLEY, C. - SORRI, J. - SOTTILI, L. - STOLZE, S. - WEARING, F. alpha-spectroscopy studies of the new nuclides Pt-165 and Hg-170. In *Physical Review C*, 2019, vol. 100, no. 1, art. no. 014305. (2018: 3.132 - IF, Q2 - JCR, 1.502 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.100.014305>

Citácie:

1. [1.1] JODIDAR, P. M. - PETRACHE, C. M. - HE, X. T. - ASTIER, A. - GUO, S. - LV, B. F. - ZHANG, Q. Q. - ZHANG, Z. H. - ZHENG, K. K. - AURANEN, K. -

BRISCOE, A. D. - GREENLEES, P. T. - GRAHN, T. - ILLANA, A. - JOUKAINEN, H. - JULIN, R. - LOUKO, J. - LUOMA, M. - JUTILA, H. - OJALA, J. - PAKARINEN, J. - PLAZA, A. M. - RAHKILA, P. - RUOTSALAINEN, P. - SAREN, J. - TOLOSA-DELGADO, A. - UUSITALO, J. - ZIMBA, G. - KUTI, I. - KRAKO, A. - ANDREOIU, C. - LAWRIE, E. A. - JOSS, D. T. - PAGE, R. D. - ERTOPRAK, A. - CEDERLOF, E. A. Collectivity and shapes in light cesium nuclei: Band structures in ^{117}Cs . In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 4, art. no. 044304. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.044304>, Registrované v: WOS

2. [1.1] JODIDAR, P. M. - PETRACHE, C. M. - LV, B. F. - LAWRIE, E. A. - ASTIER, A. - GUO, S. - ZHENG, K. K. - AURANEN, K. - BRISCOE, A. D. - GRAHN, T. - GREENLEES, P. T. - ILLANA, A. - JOUKAINEN, H. - JULIN, R. - LOUKO, J. - LUOMA, M. - JUTILA, H. - OJALA, J. - PAKARINEN, J. - PLAZA, A. M. - RAHKILA, P. - RUOTSALAINEN, P. - SAREN, J. - TOLOSA-DELGADO, A. - UUSITALO, J. - ZIMBA, G. - KUTI, I. - KRAKO, A. - ANDREOIU, C. - JOSS, D. T. - PAGE, R. D. - CEDERLOF, E. A. - ERTOPRAK, A. First observation of excited states in $\text{SUP}120/\text{SUP}1\alpha$ and its impact on the shape evolution in the $A \approx 120$ mass region. In *PHYSICS LETTERS B*, 2024, vol. 855, no., art. no. 138806. ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2024.138806>, Registrované v: WOS

3. [1.1] SINGH, Balraj - CHEN, Jun. Nuclear Structure and Decay Data for $A=165$ Isobars. In *NUCLEAR DATA SHEETS*, 2024, vol. 194, no., pp. 460-877. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.02.003>, Registrované v: WOS

4. [1.1] VESIC, Jelena - VENCELJ, Matjaz. Nuclear Physics Opportunities at European Small-Scale Facilities. In *QUANTUM BEAM SCIENCE*, 2024, vol. 8, no. 1, art. no. 4. Dostupné na: <https://doi.org/10.3390/qubs8010004>, Registrované v: WOS

ADCA324 HINKELMAN, Jan* - VRŠANSKÝ, Peter** - GARCIA, Thierry - TEJEDOR, Arian - BERTNER, Paul - SOROKIN, Anton - GALLICE, Geoffrey R. - KOUBOVÁ, Ivana - NAGY, Štefan - VIDLIČKA, Ľubomír*. Neotropical Melyroidea group cockroaches reveal various degrees of (eu)sociality. In *The Science of Nature*, 2020, vol. 107, no. 5, 39. (2019: 2.090 - IF, Q2 - JCR, 0.804 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0028-1042. Dostupné na: <https://doi.org/10.1007/s00114-020-01694-x>

Citácie:

1. [3.1] ESTRADA-ALVAREZ, Julio C. y FERNANDEZ-GAMA, Elda. Description of *Oulopteryx yaya* sp. n. from Mexico, the northernmost species of the genus *Oulopteryx* Hebard, 1921 (Blattodea: Oulopterygidae). *Acta zoológica mexicana On-line* ISSN: 2448-8445, 2025, vol.41, e2743. Epub 04-Ago-2025. ISSN 2448-8445. <https://doi.org/10.21829/azm.2025.4112743>

ADCA325 HODGSON, P.E. - BĚTÁK, Emil. Cluster emission, transfer and capture in nuclear reactions. In *Physics Reports*, 2003, vol. 374, no. 1, p. 1-89. ISSN 0370-1573.

Citácie:

1. [1.1] CHENG, An - XU, Chang. Coupled-channels analysis of α -decay fine structure of superheavy nuclei: Deformed. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 5, art. no. 054317. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.054317>, Registrované v: WOS

2. [1.1] GAO, Zepeng - ZHANG, Yinu - ZHU, Long - LIAO, Zehong - YANG, Yu - GUO, Chenchen - SU, Jun. Role of the isospin diffusion on the cluster transfer in $\text{SUP}12,14/\text{SUPC}+\text{SUP}209/\text{SUPBi}$ reactions. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 4, art. no. L041605. ISSN 2469-9985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.109.L041605>, Registrované v: WOS

3. [1.1] KAUR, Manpreet - CHOUDHURY, Deepika - PATRA, S. K. EVOLUTION OF ALPHA-CLUSTER PREFORMATION PROBABILITY IN NEUTRON-RICH SUP41,45,49/SUPCa NUCLEAR SYSTEMS. In ACTA PHYSICA POLONICA B PROCEEDINGS SUPPLEMENT, 2024, vol. 17, no. 3, art. no. A30. ISSN 1899-2358. Dostupné na: <https://doi.org/10.5506/APhysPolBSupp.17.3-A30>, Registrované v: WOS

4. [1.1] UESAKA, T. - ITAGAKI, N. Nuclear clustering-manifestations of non-uniformity in nuclei. In PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES, 2024, vol. 382, no. 2275, art. no. 20230123. ISSN 1364-503X. Dostupné na: <https://doi.org/10.1098/rsta.2023.0123>, Registrované v: WOS

5. [1.1] WANG, Tao - TANG, Shu-Lin - QIAN, Yi-Bin. α -decay properties of superheavy nuclei with $117 \leq Z \leq 120$ from the systematics of decay chains and isotopic chains. In CHINESE PHYSICS C, 2024, vol. 48, no. 3, art. no. 034103. ISSN 1674-1137. Dostupné na: <https://doi.org/10.1088/1674-1137/ad1582>, Registrované v: WOS

ADCA326 HOFBAUEROVÁ, Monika, Benkovičová - KISOVÁ, Zuzana - BUČKOVÁ, Mária - MAJKOVÁ, Eva - ŠIFFALOVIČ, Peter - PANGALLO, Domenico**. The antifungal properties of super-hydrophobic nanoparticles and essential oils on different material surfaces. In Coatings, 2019, vol. 9, no. 3, art. no. 176. (2018: 2.330 - IF, Q2 - JCR, karentované - CCC). (2019 - Current Contents). ISSN 2079-6412. Dostupné na: <https://doi.org/10.3390/coatings9030176>

Citácie:

1. [1.1] MENICUCCI, Felicia - PIZZO, Benedetto - SALVADORI, Barbara - CHELAZZI, Laura - IENCO, Andrea - PALAGANO, Eleonora. Antifungal activity of carvacrol-based solids and their effects on Whatman and Kraft paper. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION, 2024, vol. 195, no., art. no. 105894. ISSN 0964-8305. Dostupné na: <https://doi.org/10.1016/j.ibiod.2024.105894>, Registrované v: WOS

2. [1.1] SU, Jieying - ZHANG, Haitao - ZHU, Meiting - CAI, Jiajie - XU, Bin. Green and Abrasion-Resistant Superhydrophobic Coatings Constructed with Tung Oil/Carnauba Wax/Silica for Wood Surface. In MATERIALS, 2024, vol. 17, no. 12, art. no. 3000. Dostupné na: <https://doi.org/10.3390/ma17123000>, Registrované v: WOS

3. [1.1] TSELEPI, Vasiliki - SARKIRIS, Panagiotis - NIORAS, Dimitrios - TSOUKO, Erminta - SARRIS, Dimitrios - GOGOLIDES, Evangelos - ELLINAS, Kosmas. Functional Surfaces for Passive Fungal Proliferation Control: Effect of Surface Micro- and Nanotopography, Material, and Wetting Properties. In ACS APPLIED BIO MATERIALS, 2024, vol. 4, no. 4, p. 45410-4518. ISSN 2576-6422. Dostupné na: <https://doi.org/10.1021/acsabm.4c00387>, Registrované v: WOS

4. [1.1] WARDAK, Mohammad Hamayoon - NKEDE, Francis Ngwane - VAN, Tran Thi - MENG, Fanze - XIRUI, Yan - JOTHI, Jakia Sultana - TANAKA, Fumina - TANAKA, Fumihiko. Development of a coating material composed of sodium alginate and kiwifruit seed essential oil to enhance persimmon fruit quality using a novel partial coating technique. In FOOD PACKAGING AND SHELF LIFE, 2024, vol. 45, no., art. no. 101331. ISSN 2214-2894. Dostupné na: <https://doi.org/10.1016/j.fpsl.2024.101331>, Registrované v: WOS

5. [1.2] ALI, Juned - ALAM, Danish - NOORI, Rubia - FARIDI, Shazia - SARDAR, Meryam. Metal Nanoparticles: Management and Control of Phytopathogenic Fungi. In Advances in Antifungal Drug Development Natural Products with Antifungal Potential, 2024-01-01, pp. 411-437. ISBN

[9789819751648, 9789819751655]. Dostupné na: https://doi.org/10.1007/978-981-97-5165-5_15, Registrované v: SCOPUS

- ADCA327 HOFBAUEROVÁ, Monika, Benkovičová - RUSKOVÁ, Magdaléna - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - HVIŽDOŠOVÁ, Adriana, Annušová - MAJKOVÁ, Eva - ŠIFFALOVICH, Peter - GRANATA, Giuseppe - NAPOLI, Edoardo - GERACI, C. - PANGALLO, Domenico**. Protection and Disinfection Activities of Oregano and Thyme Essential Oils Encapsulated in Poly(ϵ -caprolactone) Nanocapsules. In *Molecules*, 2023, vol. 28, no. 3, art. no. 1018. (2022: 4.6 - IF, Q2 - JCR, 0.704 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules28031018>

Citácie:

1. [1.1] ROMERO-MONTERO, Alejandra - MELGOZA-RAMIREZ, Luis Javier - RUIZ-AGUIRRE, Jesus Augusto - CHAVEZ-SANTOSCOY, Alejandra - MAGANA, Jonathan Javier - CORTES, Hernan - LEYVA-GOMEZ, Gerardo - DEL PRADO-AUDELO, Maria Luisa. Essential-Oils-Loaded Biopolymeric Nanoparticles as Strategies for Microbial and Biofilm Control: A Current Status. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2024, vol. 25, no. 1, art. no. 82. ISSN 1661-6596. Dostupné na: <https://doi.org/10.3390/ijms25010082>, Registrované v: WOS

- ADCA328 HOLLWIESER, R. - FABER, M. - GREENSITE, J. - HELLER, U.M. - OLEJNÍK, Štefan. Center vortices and the Dirac spectrum. In *Physical Review D*, 2008, vol. 78, no. 5, art. no. 054508. (2007: 4.696 - IF, Q1 - JCR, 2.593 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: <https://doi.org/10.1103/PhysRevD.78.054508>

Citácie:

1. [1.1] KAMLEH, Waseem - LEINWEBER, Derek B. - VIRGILI, Adam. Numerical indication that center vortices drive dynamical mass generation in QCD. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 5, art. no. L051502. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.L051502>, Registrované v: WOS

- ADCA329 HORVÁTHOVÁ, Lucia - DUBECKÝ, Matúš - MITÁŠ, L. - ŠTICH, Ivan. Spin multiplicity and symmetry breaking in vanadium-benzene complexes. In *Physical Review Letters*, 2012, vol. 109, no. 5, art. no. 053001. (2011: 7.370 - IF, Q1 - JCR, 6.314 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.109.053001>

Citácie:

1. [1.1] COLLEY, Jason E. - DYNAK, Nathan J. - BLAIS, John R. C. - DUNCAN, Michael A. Photodissociation Spectroscopy and Photofragment Imaging of the MgSUP+/SUP(Benzene) Complex. In *JOURNAL OF PHYSICAL CHEMISTRY A*, 2024, vol. 128, no. 49, pp. 10507-10515. ISSN 1089-5639. Dostupné na: <https://doi.org/10.1021/acs.jpca.4c05703>, Registrované v: WOS

2. [1.1] HU, Yangyang - LIU, Xiaohui - SUN, Youran - SHANG, Yan - YANG, Zhaodi - WANG, Ya - PEI, Lei - YU, Hong - REHMAN, Munir Ur - DONG, Yuqi - HAN, Lu - ZHANG, Guiling. Electronic and Transport Properties of C60-(Fe-Porphyrin-like)@GNR Single-Molecule Devices. In *ACS APPLIED ELECTRONIC MATERIALS*, 2024, vol. 6, no. 11, pp. 8190-8202. Dostupné na: <https://doi.org/10.1021/acsaelm.4c01493>, Registrované v: WOS

3. [1.1] LIU, Xiaohui - HU, Yangyang - HAN, Lu - DONG, Yuqi - REHMAN, Munir Ur - SHANG, Yan - YANG, Zhaodi - WANG, Ya - PEI, Lei - YU, Hong - ZHANG, Guiling. Transport Properties with Multiple Functions of Fe@C60-GNR

Single Molecule. In CHEMISTRY-A EUROPEAN JOURNAL, 2024, vol. 30, no. 18. ISSN 0947-6539. Dostupné na: <https://doi.org/10.1002/chem.202303919>, Registrované v: WOS

4. [1.1] LIU, Xiaohui - SHANG, Yan - HU, Yangyang - YANG, Zhaodi - WANG, Ya - PEI, Lei - YU, Hong - REHMAN, Munir Ur - DONG, Yuqi - HAN, Lu - ZHANG, Guiling. NDR and spin-polarized transport properties of magnetic Fe sandwiched C60-GNR single molecule devices: theoretical insight. In NEW JOURNAL OF CHEMISTRY, 2024, vol. 48, no. 11, pp. 4854-4864. ISSN 1144-0546. Dostupné na: <https://doi.org/10.1039/d3nj05409h>, Registrované v: WOS

ADCA330 HORVÁTHOVÁ, Lucia - DUBECKÝ, Matúš - MITÁŠ, L. - ŠTICH, Ivan. Quantum Monte Carlo Study of π -Bonded Transition Metal Organometallics: Neutral and Cationic Vanadium-Benzene and Cobalt-Benzene Half Sandwiches. In Journal of Chemical Theory and Computation, 2013, vol. 9, no. 1, p. 390-400. (2012: 5.389 - IF, Q1 - JCR, 2.784 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1549-9618. Dostupné na: <https://doi.org/10.1021/ct300887t>

Citácie:

1. [1.1] COLLEY, Jason E. - DYNAK, Nathan J. - BLAIS, John R. C. - DUNCAN, Michael A. Photodissociation Spectroscopy and Photofragment Imaging of the MgSUP+/SUP(Benzene) Complex. In JOURNAL OF PHYSICAL CHEMISTRY A, 2024, vol. 128, no. 49, pp. 10507-10515. ISSN 1089-5639. Dostupné na: <https://doi.org/10.1021/acs.jpca.4c05703>, Registrované v: WOS

ADCA331 HOWON, Kim** - PALACIO-MORALES, Alexandra - POSSKE, Thore - RÓZSA, Levente - PALOTÁS, Krisztián - SZUNYOGH, László - THORWART, Michael - WIESENDANGER, Roland**. Toward tailoring Majorana bound states in artificially constructed magnetic atom chains on elemental superconductors. In Science Advances, 2018, vol. 4, no. 5, art. no. eaar5251. (2017: 11.511 - IF, Q1 - JCR, 5.817 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.aar5251>

Citácie:

1. [1.1] AMUNDSEN, Morten - LINDER, Jacob - ROBINSON, Jason W. A. - ZUTIC, Igor - BANERJEE, Niladri. Colloquium: Spin-orbit effects in superconducting hybrid structures. In REVIEWS OF MODERN PHYSICS, 2024, vol. 96, no. 2, art. no. 021003. ISSN 0034-6861. Dostupné na: <https://doi.org/10.1103/RevModPhys.96.021003>, Registrované v: WOS

2. [1.1] AWOGA, Oladunjoye A. - IOANNIDIS, Ioannis - MISHRA, Archana - LEIJNSE, Martin - TRIF, Mircea - POSSKE, Thore. Controlling Majorana hybridization in magnetic chain-superconductor systems. In PHYSICAL REVIEW RESEARCH, 2024, vol. 6, no. 3, art. no. 033154. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.033154>, Registrované v: WOS

3. [1.1] BEDOW, Jasmin - MASCOT, Eric - HODGE, Themba - RACHEL, Stephan - MORR, Dirk K. Simulating topological quantum gates in two-dimensional magnet-superconductor hybrid structures. In NPJ QUANTUM MATERIALS, 2024, vol. 9, no. 1, art. no. 99. Dostupné na: <https://doi.org/10.1038/s41535-024-00703-w>, Registrované v: WOS

4. [1.1] CHATTERJEE, Pritam - GHOSH, Arnob Kumar - NANDY, Ashis K. - SAHA, Arijit. Second-order topological superconductor via noncollinear magnetic texture. In PHYSICAL REVIEW B, 2024, vol. 109, no. 4, art. no. L041409. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.L041409>, Registrované v: WOS

5. [1.1] CHINELLATO, Leandro M. - GAZZA, Claudio J. - LOBOS, Alejandro M. - ALIGIA, Armando A. Topological phases of strongly interacting time-reversal invariant topological superconducting chains under a magnetic field. In

PHYSICAL REVIEW B, 2024, vol. 109, no. 6, art. no. 064503. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.064503>, Registrované v: WOS

6. [1.1] CORTES-DEL RIO, Eva - TRIVINI, Stefano. - PASCUAL, Jose I. - CHERKEZ, Vladimir - MALLET, Pierre - VEUILLEN, Jean-Yves - CUEVAS, Juan. C. - BRIHUEGA, Ivan. Shaping Graphene Superconductivity with Nanometer Precision. In SMALL, 2024, vol. 20, no. 20. ISSN 1613-6810.

Dostupné na: <https://doi.org/10.1002/sml.202308439>, Registrované v: WOS

7. [1.1] CUI NA-WEI - GAO JIA-XIN - DONG HUI-RU - LI CHUAN-QI - LUO XIAO-BING - XIAO JIN-PENG. Topological superconducting phase competition in magnetic atomic rings. In ACTA PHYSICA SINICA, 2024, vol. 73, no. 23, art. no. 237301. ISSN 1000-3290. Dostupné na:

<https://doi.org/10.7498/aps.73.20241095>, Registrované v: WOS

8. [1.1] DONG, Peng - HOU, Xiaofei - HE, Jiadian - ZHANG, Yiwen - DING, Yifan - ZENG, Xiaohui - WANG, Jinghui - WU, Yueshen - WATANABE, Kenji - TANIGUCHI, Takashi - XIA, Wei - GUO, Yanfeng - CHEN, Yulin - ZHOU, Xiang - LI, Wei - LI, Jun. Proximity-effect-induced superconductivity in a van der Waals heterostructure consisting of a magnetic topological insulator and a conventional superconductor. In PHYSICAL REVIEW B, 2024, vol. 109, no. 14, art. no. L140503. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.109.L140503>, Registrované v: WOS

9. [1.1] FARINACCI, Laetitia - REECHT, Gael - VON OPPEN, Felix - FRANKE, Katharina J. Yu-Shiba-Rusinov bands in a self-assembled kagome lattice of magnetic molecules. In NATURE COMMUNICATIONS, 2024, vol. 15, no. 1, art. no. 6474. Dostupné na: <https://doi.org/10.1038/s41467-024-50829-5>,

Registrované v: WOS

10. [1.1] GAO, Ming-Jian - MA, Yu-Peng - AN, JunHong. Majorana modes and their Floquet engineering in a trapped-ion system. In PHYSICAL REVIEW B, 2024, vol. 109, no. 18, art. no. 184518. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.109.184518>, Registrované v: WOS

11. [1.1] GENG, Li - HONG, Ding - ZI-QIANG, Wang - HONG-JUN, Gao. Majorana zero mode and its lattice construction in iron-based superconductors. In ACTA PHYSICA SINICA, 2024, vol. 73, no. 3, art. no. 030302. ISSN 1000-3290.

Dostupné na: <https://doi.org/10.7498/aps.73.20232022>, Registrované v: WOS

12. [1.1] GORSKI, Grzegorz - KUCAB, Krzysztof. Magnetic field effect on transport properties of double quantum dot Majorana wire system in cross-shaped configuration. In JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, 2024, vol. 589, no., art. no. 171564. ISSN 0304-8853. Dostupné na:

<https://doi.org/10.1016/j.jmmm.2023.171564>, Registrované v: WOS

13. [1.1] GORSKI, Grzegorz - KUCAB, Krzysztof. Spectral and Transport Properties of Andreev Molecule Coupled to Majorana Wire. In ANNALEN DER PHYSIK, 2024, vol. 536, no. 8. ISSN 0003-3804. Dostupné na:

<https://doi.org/10.1002/andp.202400068>, Registrované v: WOS

14. [1.1] HAN, Sang-Hoon - KANG, Myungjun - PARK, Moon Jip - CHEON, Sangmo. Quantized polarization and Majorana fermions beyond tenfold classification. In COMMUNICATIONS PHYSICS, 2024, vol. 7, no. 1, art. no. 243. ISSN 2399-3650. Dostupné na: <https://doi.org/10.1038/s42005-024-01737-z>,

Registrované v: WOS

15. [1.1] HOMBERG, Jan - WEISMANN, Alexander - BERNDT, Richard. Making closed-shell lead phthalocyanine paramagnetic on Pb(100). In PHYSICAL REVIEW B, 2024, vol. 109, no. 16, art. no. 165426. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.165426>, Registrované v: WOS

16. [1.1] KESHARPU, Kaushal K. - KOCHETOV, Evgenii A. - FERRAZ, Alvaro. Proposal for realizing Majorana fermions without external magnetic field in strongly correlated nanowires. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 11, art. no. 115140. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.115140>, Registrované v: WOS
17. [1.1] KHOSRAVIAN, Maryam - KOCH, Rouven - LADO, Jose L. Hamiltonian learning with real-space impurity tomography in topological moiré superconductors. In *JOURNAL OF PHYSICS-MATERIALS*, 2024, vol. 7, no. 1, art. no. 015012. Dostupné na: <https://doi.org/10.1088/2515-7639/ad1c04>, Registrované v: WOS
18. [1.1] KOBIALKA, Aksel - AWOGA, Oladunjoye A. - LEIJNSE, Martin - DOMANSKI, Tadeusz - HOLMVALL, Patric - BLACK-SCHAFFER, Annica M. Topological superconductivity in Fibonacci quasicrystals. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 13, art. no. 134508. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.134508>, Registrované v: WOS
19. [1.1] LI, Geng - LI, Meng - ZHOU, Xingtai - GAO, Hong-Jun. Toward large-scale, ordered and tunable Majorana-zero-modes lattice on iron-based superconductors. In *REPORTS ON PROGRESS IN PHYSICS*, 2024, vol. 87, no. 1, art. no. 016501. ISSN 0034-4885. Dostupné na: <https://doi.org/10.1088/1361-6633/ad0c5c>, Registrované v: WOS
20. [1.1] LI, Peigen - ZHANG, Jihai - ZHU, Di - CHEN, Cui-Qun - YI, Enkui - SHEN, Bing - HOU, Yusheng - YAN, Zhongbo - YAO, Dao-Xin - GUO, Donghui - ZHONG, Dingyong. Observation of In-Gap States in a Two-Dimensional CrI₂/NbSe₂ Heterostructure. In *NANO LETTERS*, 2024, vol. 24, no. 31, pp. 9468-9476. ISSN 1530-6984. Dostupné na: <https://doi.org/10.1021/acs.nanolett.4c01848>, Registrované v: WOS
21. [1.1] LI, Yuanji - YIN, Ruotong - LI, Mingzhe - GONG, Jiashuo - CHEN, Ziyuan - ZHANG, Jiakang - YAN, Ya-Jun - FENG, Dong-Lai. Observation of Yu-Shiba-Rusinov-like states at the edge of CrBr₃/NbSe₂ heterostructure. In *NATURE COMMUNICATIONS*, 2024, vol. 15, no. 1, art. no. 10121. Dostupné na: <https://doi.org/10.1038/s41467-024-54525-2>, Registrované v: WOS
22. [1.1] MA, Meng-Ya - XU, Rui-Cong - GONG, Wei-Jiang - YI, Guang-Yu. Spin and orbital Yu-Shiba-Rusinov states and delocalization control of magnetic order in parallel double quantum dot Josephson junctions. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 12, art. no. 125105. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.125105>, Registrované v: WOS
23. [1.1] MESAROS, A. - GU, G. D. - MASSEE, F. Topologically trivial gap-filling in superconducting Fe(Se,Te) by one-dimensional defects. In *NATURE COMMUNICATIONS*, 2024, vol. 15, no. 1, art. no. 3774. Dostupné na: <https://doi.org/10.1038/s41467-024-48047-0>, Registrované v: WOS
24. [1.1] MINISSALE, Marco - BONDAVALLI, Paolo - FIGUEIRA, M. S. - LE LAY, Guy. Sequencing one-dimensional Majorana materials for topological quantum computing. In *JOURNAL OF PHYSICS-MATERIALS*, 2024, vol. 7, no. 3, art. no. 031001. Dostupné na: <https://doi.org/10.1088/2515-7639/ad5763>, Registrované v: WOS
25. [1.1] MULLINEAUXSANDERS, Harry - BRAUNECKER, Bernd. Topological classification of one-dimensional chiral symmetric interfaces. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 24, art. no. L241409. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.L241409>, Registrované v: WOS
26. [1.1] NING, Zhen - MA, Da-Shuai - ZENG, Junjie - XU, Dong-Hui - WANG, Rui. Flexible Control of Chiral Superconductivity in Optically Driven Nodal Point Superconductors with Antiferromagnetism. In *PHYSICAL REVIEW LETTERS*,

2024, vol. 133, no. 24, art. no. 246606. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.246606>, Registrované v: WOS

27. [1.1] PAN, Hui - WANG, Lei - SHI, Yu - SHENG, Chuanchao - YANG, Sixie - HE, Ping - ZHOU, Haoshen. A solid-state lithium-ion battery with micron-sized silicon anode operating free from external pressure. In *NATURE COMMUNICATIONS*, 2024, vol. 15, no. 1, art. no. 2263. Dostupné na: <https://doi.org/10.1038/s41467-024-46472-9>, Registrované v: WOS

28. [1.1] RUETTEN, Lisa M. - LIEBHABER, Eva - ROSSNAGEL, Kai - FRANKE, Katharina J. Charge-Density-Wave Control by Adatom Manipulation and Its Effect on Magnetic Nanostructures. In *NANO LETTERS*, 2024, vol. 25, no. 1, pp. 115-120. ISSN 1530-6984. Dostupné na: <https://doi.org/10.1021/acs.nanolett.4c04581>, Registrované v: WOS

29. [1.1] RUIZ, Gabriel F. Rodriguez - REICH, Adrian - SHNIRMAN, Alexander - SCHMALIAN, Joerg - ARRACHEA, Liliana. Binding zero modes with fluxons in Josephson junctions of time-reversal invariant topological superconductors. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 24, art. no. 245427. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.245427>, Registrované v: WOS

30. [1.1] SARDINERO, Ignacio - SOUTO, Ruben Seoane - BURSET, Pablo. Topological superconductivity in a magnetic-texture coupled Josephson junction. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 6, art. no. L060505. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.L060505>, Registrované v: WOS

31. [1.1] THINGSTAD, Even - FROMHOLZ, Pierre - RONETTI, Flavio - LOSS, Daniel - KLINOVAJA, Jelena. Fractional spin quantum Hall effect in weakly coupled spin chain arrays. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 4, art. no. 043200. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.043200>, Registrované v: WOS

32. [1.1] ULDEMOLINS, M. - MESAROS, A. - GU, G. D. - PALACIO-MORALES, A. - APRILI, M. - SIMON, P. - MASSEE, F. Hund's coupling mediated multi-channel quantum phase transition of a single magnetic impurity in Fe(Se, Te). In *NATURE COMMUNICATIONS*, 2024, vol. 15, no. 1, art. no. 8526. Dostupné na: <https://doi.org/10.1038/s41467-024-52847-9>, Registrované v: WOS

33. [1.1] WANG, Jia-Ning - PENG, Tan - CHEN, Xiao-Dan - HOU, Yong-Dan - YANG, Jun-Tao - SHANG, Hao - NAN, Nan - XIONG, Yong-Chen - LIU, Wu-Ming. Review of Yu-Shiba-Rusinov bound state in quantum impurity structures: basic principle and current progress. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*, 2024, vol. 37, no. 12, art. no. 123002. ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad883c>, Registrované v: WOS

34. [1.1] WONG, Ka Ho - GLIOZZI, Jacopo - HIRSBRUNNER, Mark R. - MALIK, Arbaz - BRADLYN, Barry - HUGHES, Taylor L. - MORR, Dirk K. Competing higher order topological superconducting phases in triangular lattice magnet-superconductor hybrid systems. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 14, art. no. 144521. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.144521>, Registrované v: WOS

35. [1.1] WONG, Ka Ho - PATWARDHAN, Ameya - ABBAMONTE, Peter - MAHMOOD, Fahad - MORR, Dirk K. Two-electron photoemission spectroscopy in topological superconductors. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 9, art. no. 094503. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.094503>, Registrované v: WOS

36. [1.1] WU, Kunmin - KADIJANI, Sadeq S. - SCHMIDT, Thomas L. Braiding of Majorana bound states in a driven-dissipative Majorana box setup. In *NEW*

JOURNAL OF PHYSICS, 2024, vol. 26, no. 12, art. no. 123007. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad96da>, Registrované v: WOS

37. [1.1] XIAO, Jinpeng - HU, Qianglin - LUO, Xiaobing. Magnetic flux induced topological superconductivity in magnetic atomic rings. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 20, art. no. 205420. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.205420>, Registrované v: WOS

38. [1.1] YANG, F. - WU, M. W. Diamagnetic property and optical absorption of conventional superconductors with magnetic impurities in linear response. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 6, art. no. 064508. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.064508>, Registrované v: WOS

39. [1.2] BOLAT, Rustem - GUEVARA, Jose M. - LEINEN, Philipp - KNOL, Marvin - AREFI, Hadi H. - MAIWORM, Michael - FINDEISEN, Rolf - TEMIROV, Ruslan - HOFMANN, Oliver T. - MAURER, Reinhard J. - TAUTZ, F. Stefan - WAGNER, Christian. Electrostatic potentials of atomic nanostructures at metal surfaces quantified by scanning quantum dot microscopy. In *Nature Communications*, 2024-12-01, 15, 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-024-46423-4>, Registrované v: SCOPUS

40. [1.2] SUDEROW, Hermann. Superconducting density of states from scanning tunneling microscopy. In *Encyclopedia of Condensed Matter Physics*, 2024-01-01, pp. V2-615. ISBN [9780323914086, 9780323908009]. Dostupné na: <https://doi.org/10.1016/B978-0-323-90800-9.00240-7>, Registrované v: SCOPUS

41. [1.2] ULDEMOLINS, Mateo - MASSEE, Freek - CREN, Tristan - MESAROS, Andrej - SIMON, Pascal. Anisotropy of Yu-Shiba-Rusinov states in NbSe₂. In *Physical Review B*, 2024-12-01, 110, 22, pp. ISSN 24699950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.224519>, Registrované v: SCOPUS

ADCA332 HRISTOFOROU, E. - VOURNA, P. - K TENA, A. - ŠVEC, Peter. On the universality of the dependence of magnetic parameters on residual stresses in steels. In *IEEE Transactions on Magnetics*, 2016, vol. 52, no. 5, art. no. 6201106. (2015: 1.277 - IF, Q2 - JCR, 0.575 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0018-9464. Dostupné na: <https://doi.org/10.1109/TMAG.2015.2509642>

Citácie:

1. [1.1] PIOTROWSKI, Leszek - CHMIELEWSKI, Marek. Self-Calibrating Stress Measurement System Based on Multidirectional Barkhausen Noise Measurements. In *JOURNAL OF NONDESTRUCTIVE EVALUATION*, 2024, vol. 43, no. 4, art. no. 119. ISSN 0195-9298. Dostupné na: <https://doi.org/10.1007/s10921-024-01137-x>, Registrované v: WOS
2. [1.2] TIAN, Ye. Study on weak magnetic detection model based on strain of pipeline. In *You Qi Chu Yun Oil and Gas Storage and Transportation*, 2024-01-01, 43, 1, pp. 67-74. ISSN 10008241. Dostupné na: <https://doi.org/10.6047/j.issn.1000-8241.2024.01.008>, Registrované v: SCOPUS

ADCA333 HRUBÝ, Jakub - SANTANA, Vinicius T. - KOSTIUK, Dmytro - BOUČEK, Martin - LENZ, Samuel - KERN, Michal - ŠIFFALOVIČ, Peter - VAN SLAGEREN, Joris - NEUGEBAUER, Petr**. A graphene-based hybrid material with quantum bits prepared by the double Langmuir-Schaefer method. In *RSC Advances*, 2019, vol. 9, no. 42, p. 24066-24073. (2018: 3.049 - IF, Q2 - JCR, 0.807 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2046-2069. Dostupné na: <https://doi.org/10.1039/c9ra04537f>

Citácie:

1. [1.1] CHEN, Yiduo - YUE, Liyang - YANG, Xibin - JONES, Charlotte - WANG, Zengbo. Superlens-Assisted laser nanostructuring of Long Period optical fiber

- Gratings (LPGs) for enhanced refractive index sensing. In OPTICS AND LASER TECHNOLOGY, 2024, vol. 176, no., art. no. 111001. ISSN 0030-3992. Dostupné na: <https://doi.org/10.1016/j.optlastec.2024.111001>, Registrované v: WOS*
- ADCA334 HSU, Ch.- H. - STAÑO, Peter - KLINOVAJA, R. - LOSS, D. Nuclear-spin-induced localization of edge states in two-dimensional topological insulators. In Physical Review B, 2017, vol. 96, no. 8, art. no. 081405. (2016: 3.836 - IF, Q2 - JCR, 2.339 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.96.081405>
- Citácie:
- [1.1] BAKHSHIPOUR, Zeinab - HOSSEINI, Mir Vahid. Electron-electron interactions in partially mixed helical states. In JOURNAL OF PHYSICS-CONDENSED MATTER, 2024, vol. 36, no. 39, art. no. 395601. ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/1361-648X/ad5ad2>, Registrované v: WOS
 - [1.1] CHAKRABORTY, Subhadeep - ADAK, Vivekananda - DAS, Sourin. Robust Majorana bound state in pseudospin domain wall of a two-dimensional topological insulator. In PHYSICAL REVIEW B, 2024, vol. 110, no. 15, art. no. 155424. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.155424>, Registrované v: WOS
 - [1.1] CHOU, Yang-Zhi - DAS SARMA, Sankar. Composite helical edges from Abelian fractional topological insulators. In PHYSICAL REVIEW B, 2024, vol. 110, no. 15, art. no. 155117. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.155117>, Registrované v: WOS
 - [1.1] PAPA, Michal. Spectroscopic signatures of excitonic order on quantum spin Hall edge states. In PHYSICAL REVIEW B, 2024, vol. 110, no. 16, art. no. 165422. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.165422>, Registrované v: WOS
- ADCA335 HSU, Ch.-H. - STAÑO, Peter - KLINOVAJA, J. - LOSS, D. Antiferromagnetic nuclear spin helix and topological superconductivity in ¹³C nanotubes. In Physical Review B, 2015, vol. 92, no. 23, art. no. 235435. (2014: 3.736 - IF, Q1 - JCR, 0.123 - SJR, Q4 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.92.235435>
- Citácie:
- [1.1] ALSAYYID, Y. - AHMADI, J. - SOLTANI, M. - RASHEDI, G. Analytical and numerical calculation of the effect of edge states of the Kane-Mele model on the RKKY interaction. In PHYSICA SCRIPTA, 2024, vol. 99, no. 8, art. no. 085930. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad5cc6>, Registrované v: WOS
 - [1.1] CHANG, Yung-Yeh - NGUYEN, Khoe Van - CHEN, Kuang-Lung - LU, Yen-Wen - MOU, Chung-Yu - CHUNG, Chung-Hou. Correlation-driven topological Kondo superconductors. In COMMUNICATIONS PHYSICS, 2024, vol. 7, no. 1, art. no. 253. ISSN 2399-3650. Dostupné na: <https://doi.org/10.1038/s42005-024-01749-9>, Registrované v: WOS
- ADCA336 HSU, Chen-Hsuan - STAÑO, Peter - KLINOVAJA, Jelena - LOSS, Daniel. Majorana Kramers pairs in higher-order topological insulators. In Physical Review Letters, 2018, vol. 121, no. 19, art. no. 196801. (2017: 8.839 - IF, Q1 - JCR, 3.622 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.121.196801>
- Citácie:
- [1.1] GENG, Li - HONG, Ding - ZI-QIANG, Wang - HONG-JUN, Gao. Majorana zero mode and its lattice construction in iron-based superconductors. In ACTA PHYSICA SINICA, 2024, vol. 73, no. 3, art. no. 030302. ISSN 1000-3290. Dostupné na: <https://doi.org/10.7498/aps.73.20232022>, Registrované v: WOS

2. [1.1] HU, Yuzhong - LIU, Songmin - PAN, Baoru - ZHOU, Pan - SUN, Lizhong. Second-order topological states in a sixfold symmetric quasicrystal. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 12, art. no. L121403. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.L121403>, Registrované v: WOS
3. [1.1] JIA, Wei - WANG, Bao-Zong - GAO, Ming-Jian - AN, Jun-Hong. Unveiling higher-order topology via polarized topological charges. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 20, art. no. L201117. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.L201117>, Registrované v: WOS
4. [1.1] LE, Tian - ZHANG, Ruihan - LI, Changcun - JIANG, Ruiyang - SHENG, Haohao - TU, Linfeng - CAO, Xuewei - LYU, Zhaozheng - SHEN, Jie - LIU, Guangtong - LIU, Fucui - WANG, Zhijun - LU, Li - QU, Fanming. Magnetic field filtering of the boundary supercurrent in unconventional metal NiTe₂-based Josephson junctions. In *NATURE COMMUNICATIONS*, 2024, vol. 15, no. 1, art. no. 2785. Dostupné na: <https://doi.org/10.1038/s41467-024-47103-z>, Registrované v: WOS
5. [1.1] LI, Geng - LI, Meng - ZHOU, Xingtai - GAO, Hong-Jun. Toward large-scale, ordered and tunable Majorana-zero-modes lattice on iron-based superconductors. In *REPORTS ON PROGRESS IN PHYSICS*, 2024, vol. 87, no. 1, art. no. 016501. ISSN 0034-4885. Dostupné na: <https://doi.org/10.1088/1361-6633/ad0c5c>, Registrované v: WOS
6. [1.1] LI, Yu-Xuan - LIU, Yichen - LIU, Cheng-Cheng. Creation and manipulation of higher-order topological states by altermagnets. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 20, art. no. L201109. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.L201109>, Registrované v: WOS
7. [1.1] LI, Yu-Xuan. Realizing tunable higher-order topological superconductors with altermagnets. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 22, art. no. 224502. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.224502>, Registrované v: WOS
8. [1.1] LIU, Hui - MOGHADDAM, Ali G. - VARJAS, Daniel - FULGA, Ion Cosma. Network model for magnetic higher-order topological phases. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 4, art. no. 043167. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.043167>, Registrované v: WOS
9. [1.1] PAN, Xiao-Hong - CHEN, Li - LIU, Dong E. - ZHANG, FuChun - LIU, Xin. Majorana Zero Modes Induced by the Meissner Effect at Small Magnetic Field. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 3, art. no. 036602. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.036602>, Registrované v: WOS
10. [1.1] SANG, Xiaoting - HOU, Junpeng - GU, Yazhou - WU, Ya-Jie - LI, Zhitong. All-dielectric photonic higher-order topological insulator induced by a staggered bianisotropy. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 6, art. no. 063518. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.063518>, Registrované v: WOS
11. [1.1] TU, Wei - WU, Ya-Jie - LI, Ning - GUO, Miaodi - HOU, Junpeng. Bogoliubov corner excitations in a conventional s-wave superfluid. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 3, art. no. 033050. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad35e0>, Registrované v: WOS
12. [1.1] WU, Hong - DONG, Yu-Chen - LIU, Hui. Floquet topological phases with time-reversal and space-inversion symmetries and dynamical detection of topological charges. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 23, art. no. 235140. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.235140>, Registrované v: WOS
13. [1.1] XIE, Yuqing - YAN, Wenchao - XIA, Shiqi - LIANG, Yongsheng - TANG,

Liqin - SONG, Daohong - XU, Jingjun - CHEN, Zhigang. Realization of Topological Corner States in Tailored Photonic Graphene. In ACS PHOTONICS, 2024, vol. 11, no. 2, pp. 772-779. ISSN 2330-4022. Dostupné na:

<https://doi.org/10.1021/acsphotonics.3c01651>, Registrované v: WOS

14. [1.1] YANG, Huanhuan - SONG, Lingling - CAO, Yunshan - YAN, Peng. Circuit realization of topological physics. In PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS, 2024, vol. 1093, no., pp. 1-54. ISSN 0370-1573. Dostupné na: <https://doi.org/10.1016/j.physrep.2024.09.007>, Registrované v: WOS

15. [1.1] YANG, Yan-Bin - WANG, Jiong-Hao - LI, Kai - XU, Yong. Higher-order topological phases in crystalline and non-crystalline systems: a review. In JOURNAL OF PHYSICS-CONDENSED MATTER, 2024, vol. 36, no. 28, art. no. 283002. ISSN 0953-8984. Dostupné na:

<https://doi.org/10.1088/1361-648X/ad3abd>, Registrované v: WOS

16. [1.1] ZHANG, Zirui - YAO, Yongxi - ZHANG, Yu - ZHAO, Bao - ZHANG, Hongfang - SHI, Qiang - YANG, Bing. Two types of corner states in two dimensional photonic crystals with finite sizes. In NEW JOURNAL OF PHYSICS, 2024, vol. 26, no. 10, art. no. 103036. ISSN 1367-2630. Dostupné na:

<https://doi.org/10.1088/1367-2630/ad8956>, Registrované v: WOS

ADCA337 HSU, Chen-Hsuan - STAÑO, Peter - KLINOVAJA, Jelena - LOSS, Daniel. Effects of nuclear spins on the transport properties of the edge of two-dimensional topological insulators. In Physical Review B, 2018, vol. 97, no. 12, art. no. 125432. (2017: 3.813 - IF, Q2 - JCR, 1.176 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.97.125432>

Citácie:

1. [1.1] BAKHSHIPOUR, Zeinab - HOSSEINI, Mir Vahid. Electron-electron interactions in partially mixed helical states. In JOURNAL OF PHYSICS-CONDENSED MATTER, 2024, vol. 36, no. 39, art. no. 395601. ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/1361-648X/ad5ad2>, Registrované v: WOS

2. [1.1] CHAKRABORTY, Subhadeep - ADAK, Vivekananda - DAS, Sourin. Robust Majorana bound state in pseudospin domain wall of a two-dimensional topological insulator. In PHYSICAL REVIEW B, 2024, vol. 110, no. 15, art. no. 155424. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.110.155424>, Registrované v: WOS

3. [1.1] CHOU, Yang-Zhi - DAS SARMA, Sankar. Composite helical edges from Abelian fractional topological insulators. In PHYSICAL REVIEW B, 2024, vol. 110, no. 15, art. no. 155117. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.110.155117>, Registrované v: WOS

4. [1.1] KARIMI, Mohadese - AMINI, Mohsen - SOLTANI, Morteza - SADEGHIZADEH, Mozhgan. Backscattering of topologically protected helical edge states by line defects. In PHYSICAL REVIEW B, 2024, vol. 109, no. 2, art. no. 024108. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.109.024108>, Registrované v: WOS

5. [1.1] LAVRUKHINA, E. A. - KHOMITSKY, D. V. - TELEZHNIKOV, A. V. Formation of Bound States and Control of Their Localization in a Double Quantum Dot at the Edge of the Two-Dimensional Topological Insulator with Magnetic Barriers. In SEMICONDUCTORS, 2024, vol. 58, no. 4, pp. 335-338. ISSN 1063-7826. Dostupné na: <https://doi.org/10.1134/S1063782624040109>, Registrované v: WOS

6. [1.1] PAPAJ, Michal. Spectroscopic signatures of excitonic order on quantum spin Hall edge states. In PHYSICAL REVIEW B, 2024, vol. 110, no. 16, art. no.

165422. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.110.165422>, Registrované v: WOS

ADCA338 HSU, Chen-Hsuan - STAÑO, Peter - SATO, Yosuke - MATSUO, Sadashige - TARUCHA, Seigo - LOSS, Daniel. Charge transport of a spin-orbit-coupled Luttinger liquid. In *Physical Review B*, 2019, vol. 100, no. 19, art. no. 195423. (2018: 3.736 - IF, Q1 - JCR, 1.502 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.100.195423>

Citácie:

1. [1.1] BAKHSHIPOUR, Zeinab - HOSSEINI, Mir Vahid. Electron-electron interactions in partially mixed helical states. In *JOURNAL OF PHYSICS-CONDENSED MATTER*, 2024, vol. 36, no. 39, art. no. 395601. ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/1361-648X/ad5ad2>, Registrované v: WOS

2. [1.1] GRAHLOW, Fabian - STRAUSS, Fabian - SCHEELE, Marcus - STROEBELE, Markus - CARTA, Alberto - WEBER, Sophie F. - KROEKER, Scott - ROMAO, Carl P. - MEYER, H.Juergen. Electronic structure and transport in the potential Luttinger liquids CsNb3Br7S and RbNb3Br7S. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*, 2024, vol. 26, no. 15, pp. 11789-11797. ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/d4cp00293h>, Registrované v: WOS

ADCA339 HSU, Chen-Hsuan** - STAÑO, Peter - KLINOVAJA, Jelena - LOSS, Daniel. Helical liquids in semiconductors. In *Semiconductor Science and Technology*, 2021, vol. 36, no. 12, art. no. 123003. (2020: 2.352 - IF, Q3 - JCR, 0.712 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0268-1242. Dostupné na: <https://doi.org/10.1088/1361-6641/ac2c27>

Citácie:

1. [1.1] BENLEMQWANSSA, S. - KRISHTOPENKO, S. S. - MEYER, M. - BENHAMOU-BUI, B. - BONNET, L. - WOLF, A. - BRAY, C. - CONSEJO, C. - RUFFENACH, S. - NANOT, S. - RODRIGUEZ, J.b. - TOURNIE, E. - HARTMANN, F. - HOEFLING, S. - TEPPE, F. - JOUAULT, B. Multiprobe analysis to separate edge currents from bulk currents in quantum spin Hall insulators and to analyze their temperature dependence. In *PHYSICAL REVIEW APPLIED*, 2024, vol. 22, no. 6, art. no. 064059. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.22.064059>, Registrované v: WOS

2. [1.1] BISWAS, Sourav - DE MARTINO, Alessandro - RAO, Sumathi - KUNDU, Arijit. Two-channel Kondo problem in coupled interacting helical liquids. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 15, art. no. 155119. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.155119>, Registrované v: WOS

3. [1.1] CHOU, Yang-Zhi - DAS SARMA, Sankar. Composite helical edges from Abelian fractional topological insulators. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 15, art. no. 155117. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.155117>, Registrované v: WOS

4. [1.1] KARIMI, Mohadese - AMINI, Mohsen - SOLTANI, Morteza - SADEGHIZADEH, Mozghan. Backscattering of topologically protected helical edge states by line defects. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 2, art. no. 024108. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.024108>, Registrované v: WOS

5. [1.1] NIYAZOV, R. A. - KRAINOV, I. V. - ARISTOV, D. N. - KACHOROVSKII, V. Yu. Shot Noise in Helical Edge States in Presence of a Static Magnetic Defect. In *JETP LETTERS*, 2024, vol. 119, no. 5, pp. 372-379. ISSN 0021-3640. Dostupné na: <https://doi.org/10.1134/S0021364024600186>, Registrované v: WOS

6. [1.1] TANAKA, Yukio - TAMURA, Shun - CAYAO, Jorge. *Theory of Majorana Zero Modes in Unconventional Superconductors*. In *PROGRESS OF THEORETICAL AND EXPERIMENTAL PHYSICS*, 2024, vol. 2024, no. 8. ISSN 2050-3911. Dostupné na: <https://doi.org/10.1093/ptep/ptae065>, Registrované v: WOS

ADCA340 HU, Xiao-Min - ZHANG, Chao - GUO, Yu - WANG, Fang-Xiang - XING, Wen-Bo - HUANG, Cen-Xiao - LIU, Bi-Heng - HUANG, Yun-Feng - LI, Chuan-Feng - GUO, Guang-Can - GAO, Xiaoqin - PIVOLUSKA, Matej - HUBER, Marcus. *Pathways for Entanglement-Based Quantum Communication in the Face of High Noise*. In *Physical Review Letters*, 2021, vol. 127, no. 11, art. no. 110505. (2020: 9.161 - IF, Q1 - JCR, 3.688 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.127.110505>

Citácie:

1. [1.1] CHE, Bichen - ZHENG, Shuntian - DOU, Zhao - CHEN, Xiubo - LI, Lixiang - LI, Jian - YANG, Yixian. *Controlled node dialogue in IoT networks based on nonlocal orthogonal product states*. In *JOURNAL OF OPTICAL COMMUNICATIONS AND NETWORKING*, 2024, vol. 16, no. 3, pp. 317-327. ISSN 1943-0620. Dostupné na: <https://doi.org/10.1364/JOCN.503353>, Registrované v: WOS

2. [1.1] JING, Xu - QIAN, Cheng - ZHENG, Xiaodong - NIAN, Hu - WANG, Chenquan - TANG, Jie - GU, Xiaowen - KONG, Yuechan - CHEN, Tangsheng - LIU, Yichen - SHENG, Chong - JIANG, Dong - NIU, Bin - LU, Liangliang. *Coexistence of multiuser entanglement distribution and classical light in optical fiber network with a semiconductor chip*. In *CHIP*, 2024, vol. 3, no. 2, art. no. 100083. ISSN 2709-4723. Dostupné na: <https://doi.org/10.1016/j.chip.2024.100083>, Registrované v: WOS

3. [1.1] KALAGA, Joanna K. - KOWALEWSKA-KUDLASZYK, Anna - LEONSKI, Wieslaw - PERINA JR, Jan. *Legget-Garg inequality for a two-mode entangled bosonic system*. In *OPTICS EXPRESS*, 2024, vol. 32, no. 6, pp. 9946-9957. ISSN 1094-4087. Dostupné na: <https://doi.org/10.1364/OE.513855>, Registrované v: WOS

4. [1.1] MUELLER, Ronny - RIBEZZO, Domenico - ZAHIDY, Mujtaba - OXENLOWE, Leif Katsuo - BACCO, Davide - FORCHHAMMER, Soren. *Efficient information reconciliation for high-dimensional quantum key distribution*. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 5, art. no. 195. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04395-w>, Registrované v: WOS

5. [1.1] SHAKER, Lina M. - AL-AMIERY, Ahmed - ISAHAK, Wan Nor Roslam Wan - AL-AZZAWI, Waleed Khalid. *Advancements in Quantum Optics: Harnessing the Power of Photons for Next-Generation Technologies*. In *JOURNAL OF OPTICS-INDIA*, 2024, vol. 53, no. 1, pp. 720-727. ISSN 0972-8821. Dostupné na: <https://doi.org/10.1007/s12596-023-01320-9>, Registrované v: WOS

6. [1.1] SOHR, Philipp - ECKER, Sebastian - BULLA, Lukas - BOHMANN, Martin - URSIN, Rupert. *Overcoming noise limitations in quantum key distribution with quantum privacy amplification*. In *PHYSICAL REVIEW APPLIED*, 2024, vol. 22, no. 2, art. no. 024059. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.22.024059>, Registrované v: WOS

7. [1.1] ZHONG, Zhen-Qiu - ZHAN, Xiao-Hai - CHEN, Jia-Lin - WANG, Shuang - YIN, Zhen-Qiang - GENG, Jia-Qi - HE, De-Yong - CHEN, Wei - GUO, Guang-Can - HAN, Zheng-Fu. *Hyperentanglement quantum communication over a 50 km*

noisy fiber channel. In *OPTICA*, 2024, vol. 11, no. 8, pp. 1056-1061. ISSN 2334-2536. Dostupné na: <https://doi.org/10.1364/OPTICA.523955>, Registrované v: WOS

ADCA341 HU, Xiao-Min - XING, Wen-Bo - ZHANG, Chao - LIU, Bi-Heng** - PIVOLUSKA, Matej** - HUBER, Marcus** - HUANG, Yun-Feng - LI, Chuan-Feng - GUO, Guang-Can. Experimental creation of multi-photon high-dimensional layered quantum states. In *npj Quantum Information*, 2020, vol. 6, no. 1, art. no. 88. (2019: 7.286 - IF, Q1 - JCR, 4.098 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2056-6387. Dostupné na: <https://doi.org/10.1038/s41534-020-00318-6>

Citácie:

1. [1.1] BALA, Rajni - ASTHANA, Sooryansh - RAVISHANKAR, V. Integrated semi-quantum layered communication. In *IET QUANTUM COMMUNICATION*, 2024, vol. 5, no. 1, pp. 72-87. Dostupné na: <https://doi.org/10.1049/qtc2.12075>, Registrované v: WOS
2. [1.1] JIANG, Gui-Long - LIU, Wen-Qiang - WEI, Hai-Rui. Optimal Quantum Circuits for General Multi-Qutrit Quantum Computation. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 7. Dostupné na: <https://doi.org/10.1002/qute.202400033>, Registrované v: WOS
3. [1.1] KARACSONY, Marton - OROSZLANY, Laszlo - ZIMBORAS, Zoltan. Efficient qudit based scheme for photonic quantum computing. In *SCIPOST PHYSICS CORE*, 2024, vol. 7, no. 2, art. no. 32. Dostupné na: <https://doi.org/10.21468/SciPostPhysCore.7.2.032>, Registrované v: WOS
4. [1.1] LIANG, Shaocong - CHENG, Jialin - QIN, Jiliang - LI, Jiatong - SHI, Yi - YAN, Zhihui - JIA, Xiaojun - XIE, Changde - PENG, Kunchi. High-Speed Quantum Radio-Frequency-Over-Light Communication. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 14, art. no. 140802. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.140802>, Registrované v: WOS
5. [1.1] LIU, Chao - ZHOU, Shun - GONG, Li-Hua - CHEN, Hua-Ying. Quantum private comparison protocol via 4D layered states and DQC model. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 5, art. no. 156. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04368-z>, Registrované v: WOS
6. [1.1] WANG, Kai - HOU, Zhaohua - QIAN, Kaiyi - CHEN, Leizhen - KRENN, Mario - ZHU, Shining - MA, Xiao-Song. Entangling Independent Particles by Path Identity. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 23, art. no. 233601. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.233601>, Registrované v: WOS
7. [1.1] ZHAO, Yue - YANG, Yu-Qing - LI, Weibin - SHAO, Xiao-Qiang. Dissipative stabilization of high-dimensional GHZ states for neutral atoms. In *APPLIED PHYSICS LETTERS*, 2024, vol. 124, no. 11, art. no. 114001. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0192602>, Registrované v: WOS
8. [1.1] ZHOU, Linxiang - XU, Qiao - FENG, Tianfeng - ZHOU, Xiaoqi. Experimental realization of a three-photon asymmetric maximally entangled state and its application to quantum state transfer. In *SCIENCE ADVANCES*, 2024, vol. 10, no. 25, art. no. eadj9251. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.adj9251>, Registrované v: WOS
9. [1.2] EVANS, Carson J. - NUNN, Cory M. - CHENG, Sandra W.L. - FRANSON, James D. - PITTMAN, Todd B. Broadband loop-based quantum memories for storing entangled photons. In *CLEO Science and Innovations CLEO S and I 2024 in Proceedings CLEO 2024 Part of Conference on Lasers and*

ADCA342 *Electro Optics, 2024-01-01, pp., Registrované v: SCOPUS*
HUANG, Fei - ŠIFFALOVIČ, Peter - LI, Bo - YANG, Shixu - ZHANG, Linxing -
NÁDAŽDY, Peter - CAO, Guozhong - TIAN, Jianjun**. Controlled Crystallinity
and Morphologies of 2D Ruddlesden-Popper Perovskite Films Grown without Anti-
Solvent for Solar Cells. In Chemical Engineering Journal, 2020, vol. 394, art. no.
124959. (2019: 10.652 - IF, Q1 - JCR, 2.315 - SJR, Q1 - SJR, karentované - CCC).
(2020 - Current Contents). ISSN 1385-8947. Dostupné na:
<https://doi.org/10.1016/j.cej.2020.124959>

Citácie:

1. [1.1] REN, Ziqiu - TUO, Binyang - WANG, Na - MA, Junjie - LI, Pengwei -
ZHANG, Yiqiang - SONG, Yanlin. Advances in Intermediates for the Solution-
Processing of Perovskite Films. In CCS CHEMISTRY, 2024, vol. 6, no. 3, pp. 585-
603. Dostupné na: <https://doi.org/10.31635/ccschem.023.202302989>,

Registrované v: WOS

2. [1.1] SAWWAN, Hussain - SHEN, Lening - CAO, Zikun - LIU, Lei - ZHANG,
Xiyao - WANG, He - GONG, Xiong. Boosted device performance of perovskite
solar cells via KI processing additives. In EMERGENT MATERIALS, 2024, vol. 7,
no. 6, pp. 2457-2468. ISSN 2522-5731. Dostupné na:

<https://doi.org/10.1007/s42247-024-00796-w>, Registrované v: WOS

3. [1.1] WAFEE, Seema - LEU, Ching-Chich - CHANG, Kai-Chiang - LIU,
Bernard Haochih. Achieving vertical orientation films with superior
environmental stability in quasi-2D lead iodide perovskites. In JOURNAL OF
ALLOYS AND COMPOUNDS, 2024, vol. 1009, no., art. no. 176919. ISSN 0925-
8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.176919>, Registrované
v: WOS

4. [1.1] ZHENG, Daming - PAUPORTE, Thierry. Advances in Optical Imaging
and Optical Communications Based on High-Quality Halide Perovskite
Photodetectors. In ADVANCED FUNCTIONAL MATERIALS, 2024, vol. 34, no.
11. ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202311205>,

Registrované v: WOS

5. [1.1] ZHU, Annan - GU, Hao - LI, Wang - LIAO, Jinfeng - XIA, Junmin -
LIANG, Chao - SUN, Guoxing - SHA, Zhendong - XING, Guichuan. Synergistic
Passivation With Phenylpropylammonium Bromide for Efficient Inverted
Perovskite Solar Cells. In SMALL METHODS, 2024, vol. 8, no. 2. ISSN 2366-
9608. Dostupné na: <https://doi.org/10.1002/smt.202300428>, Registrované v:
WOS

6. [1.2] PAWAR, Vani - SHARMA, Bhumika - AVASTHI, Sushobhan. Mixed-
Dimensional 2D-3D Perovskite Solar Cells: Origin, Development, and
Applications. In Smart Materials for Science and Engineering, 2024-01-01, pp.
221-267. ISBN [9781394185818, 9781394186488]. Dostupné na:

<https://doi.org/10.1002/9781394186488.ch12>, Registrované v: SCOPUS

ADCA343 HUANG, Fei* - LI, Mengjie* - ŠIFFALOVIČ, Peter - CAO, Guozhong - TIAN,
Jianjun**. From scalable solution fabrication of perovskite films towards
commercialization of solar cells. In Energy and Environmental Science, 2019, vol.
12, no. 2, p. 518-549. (2018: 33.250 - IF, Q1 - JCR, 13.103 - SJR, Q1 - SJR,
karentované - CCC). (2019 - Current Contents). ISSN 1754-5692. Dostupné na:
<https://doi.org/10.1039/c8ee03025a>

Citácie:

1. [1.1] ASGHAR, Usman - QAMAR, Muhammad Azam - HAKAMI, Othman -
ALI, Syed Kashif - IMRAN, Mohd - FARHAN, Ahmad - PARVEEN, Humaira -
SHARMA, Mukul. Recent Advances in Carbon Nanotube Utilization in Perovskite
Solar Cells: A Review. In MICROMACHINES, 2024, vol. 15, no. 4, art. no. 529.

- Dostupné na: <https://doi.org/10.3390/mi15040529>, Registrované v: WOS
2. [1.1] CHEN, Yubo - ZHENG, Dexu - WANG, Nan - LIU, Jishuang - YU, Fengyang - WU, Sajian - LIU, Shengzhong - LI, Zhipeng. Recent Progress of Two-step Spin-coated Formamidinium Lead-based Perovskite Solar Cells. In ACTA CHIMICA SINICA, 2024, vol. 82, no. 9, pp. 987-1000. ISSN 0567-7351. Dostupné na: <https://doi.org/10.6023/A24040134>, Registrované v: WOS
3. [1.1] EL ARFAOUI, Youssef - KHENFOUCH, Mohammed - HABIBALLAH, Nabil. Spin-Orbit Coupling Effect Bandgaps Engineering of the Lead-Free Perovskites FABI3 (B = Sn or Ge) Materials for Tandem Solar Cells: First Principle Investigation of Structural and Electronic Properties. In PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, 2024, vol. 261, art. no. 2400217. ISSN 0370-1972. Dostupné na: <https://doi.org/10.1002/pssb.202400217>, Registrované v: WOS
4. [1.1] GE, Jinghao - CHEN, Ran - MA, Yabin - WANG, Yunfan - HU, Yingjie - ZHANG, Lu - LI, Fengzhu - MA, Xiaokang - TSANG, Sai-Wing - YOU, Jiaxue - JEN, Alex K. Y. - LIU, Shengzhong Frank. Kinetics Controlled Perovskite Crystallization for High Performance Solar Cells. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, 2024, vol. 63, no. 14. ISSN 1433-7851. Dostupné na: <https://doi.org/10.1002/anie.202319282>, Registrované v: WOS
5. [1.1] GOJE, Adamu Ahmed - LUDIN, Norasikin Ahmad - FAHSYAR, Puteri Nor Aznie - SYAFIQ, Ubaidah - CHELVANATHAN, Puvaneswaran - SYAKIRIN, Abu Dzar Al-Ghiffari - TERIDI, Mohd Asri - IBRAHIM, Mohd Adib - SU',AIT, Mohd Sukor - SEPEAI, Suhaila - YASIR, Ahmad Shah Hizam Md. Review of flexible perovskite solar cells for indoor and outdoor applications. In MATERIALS FOR RENEWABLE AND SUSTAINABLE ENERGY, 2024, vol. 13, no. 1, pp. 155-179. ISSN 2194-1459. Dostupné na: <https://doi.org/10.1007/s40243-024-00257-8>, Registrované v: WOS
6. [1.1] IBRAHIM - SHOUKAT, Amar - ASLAM, Fawad - REHMAN, M. Israr Ur. Emerging trends in low band gap perovskite solar cells: materials, device architectures, and performance optimization. In MOLECULAR PHYSICS, 2024, vol. 122, no. 17. ISSN 0026-8976. Dostupné na: <https://doi.org/10.1080/00268976.2024.2316273>, Registrované v: WOS
7. [1.1] KESSEL, Amit - MOON, Josh - BENITEZ-RODRIGUEZ, Juan F. - DENG, Hao - MAO, Wenxin - ALAN, Tuncay - BACH, Udo - JASIENIAK, Jacek. Patterning of Hybrid Metal Halide Perovskite via Printed Molecular Templates. In ADVANCED MATERIALS TECHNOLOGIES, 2024, vol. 9, no. 11. ISSN 2365-709X. Dostupné na: <https://doi.org/10.1002/admt.202302043>, Registrované v: WOS
8. [1.1] LI, Linfeng - HUANG, Zengqi - MENG, Xiangchuan - XING, Zhi - FAN, Baojin - LI, Jiaxuan - CHEN, Yiwang. In-Situ Polymer Framework Strategy Enabling Printable and Efficient Perovskite Solar Cells by Mitigating "Coffee Ring" Effect. In ADVANCED MATERIALS, 2024, vol. 36, no. 15. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202310752>, Registrované v: WOS
9. [1.1] LIU, Ling - ZUO, Chuantian - LIANG, Guang-Xing - DONG, Hua - CHANG, Jingjing - DING, Liming. Effect of drying methods on perovskite films and solar cells. In JOURNAL OF SEMICONDUCTORS, 2024, vol. 45, no. 1, art. no. 010501. ISSN 1674-4926. Dostupné na: <https://doi.org/10.1088/1674-4926/45/1/010501>, Registrované v: WOS
10. [1.1] LIU, Yanan - ZHANG, Canyon - WANG, Fengchao - CHEN, Jin - KONG, Jinfang - LI, Lan - SUN, Yu - XIN, Yanhui. Highly luminescent CsPbBr₃ perovskite nanocrystal films via the ligand-assisted reaction. In OPTICAL

MATERIALS, 2024, vol. 155, no., art. no. 115874. ISSN 0925-3467. Dostupné na: <https://doi.org/10.1016/j.optmat.2024.115874>, Registrované v: WOS

11. [1.1] MAZIVIERO, Fernando Velcic - MELO, Dulce M. A. - MEDEIROS, Rodolfo L. B. A. - OLIVEIRA, angelo A. S. - MACEDO, Heloisa P. - BRAGA, Renata M. - MORGADO JR, Edison. Advancements and Prospects in Perovskite Solar Cells: From Hybrid to All-Inorganic Materials. In NANOMATERIALS, 2024, vol. 14, no. 4, art. no. 332. Dostupné na: <https://doi.org/10.3390/nano14040332>, Registrované v: WOS

12. [1.1] MIN, Liangliang - SUN, Haoxuan - GUO, Linqi - ZHOU, Yicheng - WANG, Meng - CAO, Fengren - LI, Liang. Pyroelectric-Accelerated Perovskite Photodetector for Picosecond Light Detection and Ranging. In ADVANCED MATERIALS, 2024, vol. 36, no. 26. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202400279>, Registrované v: WOS

13. [1.1] NAWAZ, Taufiq - GU, Liping - HU, Zhong - FAHAD, Shah - SAUD, Shah - ZHOU, Ruanbao. Advancements in Synthetic Biology for Enhancing Cyanobacterial Capabilities in Sustainable Plastic Production: A Green Horizon Perspective. In FUELS, 2024, vol. 5, no. 3, pp. 394-438. Dostupné na: <https://doi.org/10.3390/fuels5030023>, Registrované v: WOS

14. [1.1] PAPPENBERGER, Ronja - DIERCKS, Alexander - PETRY, Julian - MOGHADAMZADEH, Somayeh - FASSL, Paul - PAETZOLD, Ulrich W. Bandgap Engineering of Two-Step Processed Perovskite Top Cells for Perovskite-Based Tandem Photovoltaics. In ADVANCED FUNCTIONAL MATERIALS, 2024, vol. 34, no. 9. ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202311424>, Registrované v: WOS

15. [1.1] PARKHOMENKO, Hryhorii P. - YERLANULY, Yerassyl - BRUS, Viktor V. - JUMABEKOV, Askhat N. Effect of mild mechanical stresses on device physics of slot-die coated flexible perovskite solar cells. In ORGANIC ELECTRONICS, 2024, vol. 129, no., art. no. 107049. ISSN 1566-1199. Dostupné na: <https://doi.org/10.1016/j.orgel.2024.107049>, Registrované v: WOS

16. [1.1] PARVAZIAN, Ershad - BEYNON, David - JENKINS, Olivia - PATIDAR, Rahul - MCGETTRICK, James - NGOMBE, Samuel - PATIL, Bhushan - GARCIA-RODRIGUEZ, Rodrigo - VILLALOBOS, Karen Valadez - DAVIES, Peter - DAVIES, Mathew - WATSON, Trystan. Selecting non-halogenated low-toxic hole transporting materials for Roll-to-Roll perovskite solar cells using carbon electrodes. In COMMUNICATIONS MATERIALS, 2024, vol. 5, no. 1, art. no. 82. Dostupné na: <https://doi.org/10.1038/s43246-024-00516-1>, Registrované v: WOS

17. [1.1] QAMAR, Muhammad Azam - AROOSH, Komal - NAWAZ, Aqsa - ALMASHNOWI, Majed Y. A. - ALNASIR, M. Hisham. Carbon nanotubes in perovskite solar cells: A comprehensive review of recent developments and future directions. In SYNTHETIC METALS, 2024, vol. 307, no., art. no. 117651. ISSN 0379-6779. Dostupné na: <https://doi.org/10.1016/j.synthmet.2024.117651>, Registrované v: WOS

18. [1.1] RAJAKARUNA, Manoj - CHUNG, Jaehoon - LI, You - SAEED, Muhammad Mohsin - MARIAM, Tamanna - AMONETTE, Emily - RAHIMI, Amirhossein - FU, Sheng - SUN, Nannan - FRYE, Bailey - KALUARACHCHI, Prabodika N. - BRAU, Tyler - ABUDULIMU, Abasi - BASNET, Arun - HEBEN, Michael J. - PODRAZA, Nikolas J. - SONG, Zhaoning - YAN, Yanfa - ELLINGSON, Randy J. Precursor Ink Engineering to Implement Vacuum Extraction Method for Scalable Production of Perovskite Solar Cells. In ACS APPLIED MATERIALS & INTERFACES, 2024, vol. 16, no. 42, pp. 57120-57129. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.4c12718>, Registrované v: WOS

19. [1.1] RANA, Tanka Raj - ABBAS, Mazhar - SCHWARTZ, Ethan - JIANG, Fangyuan - YAMAN, Muammer Y. - XU, Zhe - GINGER, David S. - MACKENZIE, Devin. Scalable Passivation Strategies to Improve Efficiency of Slot Die-Coated Perovskite Solar Cells. In *ACS ENERGY LETTERS*, 2024, vol. 9, no. 4, pp. 1888-1894. ISSN 2380-8195. Dostupné na: <https://doi.org/10.1021/acsenergylett.4c00651>, Registrované v: WOS
20. [1.1] TSVETKOV, Nikolai - KOO, Donghwan - KIM, Dohyung - PARK, Hyesung - MIN, Hanul. Advances in single-crystal perovskite solar cells: From materials to performance. In *NANO ENERGY*, 2024, vol. 130, no., art. no. 110069. ISSN 2211-2855. Dostupné na: <https://doi.org/10.1016/j.nanoen.2024.110069>, Registrované v: WOS
21. [1.1] WANG, Jinpei - ZHENG, Xue - ZHANG, Chen - CHEN, Changshun - YAO, Qing - NIU, Tingting - CHAO, Lingfeng - GUO, Qingxun - ZHANG, Hui - XIA, Yingdong - LI, Mingjie - LU, Hong - DO, Hainam - CHEN, Zhuoying - XING, Guichuan - HU, Zhelu - CHEN, Yonghua. Multifunctional anion-cation modulation engineering for Sn-Pb perovskite solar cells. In *NANO ENERGY*, 2024, vol. 128, no., art. no. 109851. ISSN 2211-2855. Dostupné na: <https://doi.org/10.1016/j.nanoen.2024.109851>, Registrované v: WOS
22. [1.1] WANG, Yaxin - SHI, Zejiao - WANG, Yanyan - ZHANG, Juan - ZHANG, Xin - LI, Xiaoguo - WANG, Haoliang - LI, Chongyuan - WANG, Jiao - ZHANG, Hao - YANG, Yingguo - ZHANG, Jia - YU, Anran - ZHAN, Yiqiang. Highly Oriented FAPbI₃ via 2D Ruddlesden Popper Perovskite Template Growth. In *ADVANCED ENERGY MATERIALS*, 2024, vol. 14, no. 31. ISSN 1614-6832. Dostupné na: <https://doi.org/10.1002/aenm.202401721>, Registrované v: WOS
23. [1.1] WEI, Qingbo - CHENG, Yetai - GAO, Yixuan - WANG, Nannan - HOU, Xiufang - ZAN, Lingxing - DUAN, Yuwei - FU, Feng - YANG, Dong - LIU, Shengzhong (Frank). Boosted Ultraviolet Irradiation and Environmental Stability of Hole Transport Layer-Free Perovskite Solar Cells. In *SOLAR RRL*, 2024, vol. 8, no. 3. ISSN 2367-198X. Dostupné na: <https://doi.org/10.1002/solr.202300816>, Registrované v: WOS
24. [1.1] WEI, Qingyun - ZHENG, Dexu - LIU, Lu - LIU, Jishuang - DU, Minyong - PENG, Lei - WANG, Kai - LIU, Shengzhong. Fusing Science with Industry: Perovskite Photovoltaics Moving Rapidly into Industrialization. In *ADVANCED MATERIALS*, 2024, vol. 36, no. 39. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202406295>, Registrované v: WOS
25. [1.1] XU, Jing - WU, Jihuai - CHEN, Qi - WANG, Ying - LI, Ruoshui - CHEN, Xia - LAN, Zhang - SUN, Weihai. Spiro-OMeTAD doped with iodine pentoxide to enhance planar perovskite solar cell performance. In *JOURNAL OF ALLOYS AND COMPOUNDS*, 2024, vol. 970, no., art. no. 172749. ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2023.172749>, Registrované v: WOS
26. [1.1] XU, Ligang - HU, Zhaoying - ZHU, Zhiyuan - LIANG, Zuowei - CHEN, Zikang - WANG, Jiexue - LV, Wenzhen - CHEN, Runfeng. Enhanced Efficiency and Stability of Inverted Perovskite Solar Cells via Primary Amine Molecular Reaction. In *JOURNAL OF PHYSICAL CHEMISTRY LETTERS*, 2024, vol. 15, no. 19, pp. 5259-5266. ISSN 1948-7185. Dostupné na: <https://doi.org/10.1021/acs.jpcllett.4c00857>, Registrované v: WOS
27. [1.1] XU, Yibo - ZHOU, Chenguang - LI, Xinzhu - DU, Kaihuai - LI, Yue - DONG, Xu - YUAN, Ningyi - LI, Lvzhou - DING, Jianning. Equally Efficient Perovskite Solar Cells and Modules Fabricated via N-Ethyl-2-Pyrrolidone Optimized Vacuum-Flash. In *SMALL METHODS*, 2024, vol. 8, no. 12. ISSN 2366-9608. Dostupné na: <https://doi.org/10.1002/smtd.202400428>, Registrované v:

WOS

28. [1.1] YOUSSEF, Sarah - ALI, Nouran M. - RAFAT, Nadia H. Enhancing the performance of lead halide perovskite solar cells and reducing its toxicity using nanostructures. In *JOURNAL OF PHOTONICS FOR ENERGY*, 2024, vol. 14, no. 3, art. no. 034501. ISSN 1947-7988. Dostupné na:

<https://doi.org/10.1117/1.JPE.14.034501>, Registrované v: WOS

29. [1.1] ZHANG, Jindan - TANG, Shicheng - ZHU, Mengqi - LI, Zhenghong - CHENG, Zhibin - XIANG, Shengchang - ZHANG, Zhangjing. The Role of Grain Boundaries in Organic-Inorganic Hybrid Perovskite Solar Cells and its Current Enhancement Strategies: A Review. In *ENERGY & ENVIRONMENTAL MATERIALS*, 2024, vol. 7, no. 4. Dostupné na:

<https://doi.org/10.1002/eem2.12696>, Registrované v: WOS

30. [1.1] ZHANG, Jing - MAO, Peng - BI, Weihui - WANG, Bing - LI, Yungui - HAN, Gaorong - ZHONG, Yufei. Templated-seeding renders tailored crystallization in perovskite photovoltaics: path towards future efficient modules. In *JOURNAL OF MATERIALS CHEMISTRY A*, 2024, vol. 12, no. 3, pp. 1407-1421. ISSN 2050-7488. Dostupné na: <https://doi.org/10.1039/d3ta06067e>,

Registrované v: WOS

31. [1.1] ZHU, Chunqin - ZHU, Guangrui - ZHAO, Ya - YI, Ruichen - HOU, Xiaoyuan - QIN, Jiajun. Capacitance Measurement for Evaluating the Initial Top-Electrode-Damage-Induced Degradation of Organic Devices. In *ACS MATERIALS LETTERS*, 2024, vol. 6, no. 9, pp. 4090-4097. Dostupné na:

<https://doi.org/10.1021/acsmaterialslett.4c01103>, Registrované v: WOS

32. [1.2] NUNES, Daniela - PIMENTEL, Ana - BARQUINHA, Pedro - MENDES, Manuel - COELHO, João - ALMEIDA, Henrique - FORTUNATO, Elvira - MARTINS, Rodrigo. Flexible Devices Based on Metal Oxides: Achievements and Prospects. In *Flexible Devices Based on Metal Oxides Achievements and Prospects*, 2024-01-01, pp. 1-609. ISBN [9780443216572, 9780443216565].

Dostupné na: <https://doi.org/10.1016/C2022-0-03085-3>, Registrované v: SCOPUS

33. [1.2] SHU, Chongrui - ZHANG, Caixin - YUAN, Ruihan - LIU, Xixi - TIE, Shujie - YANG, Ning - LIAN, Xuan - ZHU, Jianguo - ZHENG, Xiaojia. Dynamic monolithic X-ray imager with enhanced performance via strain relaxation in metal-halide scintillators. In *Journal of Materials Chemistry C*, 2024-12-16, 13, 7, pp. 3399-3407. ISSN 20507526. Dostupné na:

<https://doi.org/10.1039/d4tc04296d>, Registrované v: SCOPUS

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HUANG, Zixin** - JOSHI, Siddarth Koduru* - AKTAS, Djeylan - LUPO, Cosmo - QUINTAVALLE, Armanda O. - VENKATACHALAM, Natarajan - WENGEROWSKY, Sören - LONČARIĆ, Martin - NEUMANN, Sebastian Philipp - LIU, Bo - SAMEC, Željko - KLING, Laurent - STIPČEVIĆ, Mario - URSIN, Rupert - RARITY, John G. Experimental implementation of secure anonymous protocols on an eight-user quantum key distribution network. In *npj Quantum Information*, 2022, vol. 8, no. 1, art. no. 25. (2021: 10.758 - IF, Q1 - JCR, 3.385 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2056-6387. Dostupné na: <https://doi.org/10.1038/s41534-022-00535-1>

Citácie:

1. [1.1] CHANG, Kai-Chi - SARIHAN, Murat Can - CHENG, Xiang - ZHANG, Zheshen - WONG, Chee Wei. Large-alphabet time-bin quantum key distribution and Einstein-Podolsky-Rosen steering via dispersive optics. In *QUANTUM SCIENCE AND TECHNOLOGY*, 2024, vol. 9, no. 1, art. no. 015018. ISSN 2058-9565. Dostupné na: <https://doi.org/10.1088/2058-9565/ad0f6f>, Registrované v: WOS

2. [1.1] JING, Xu - QIAN, Cheng - WENG, Chen-Xun - LI, Bing-Hong - CHEN, Zhe - WANG, Chen-Quan - TANG, Jie - GU, Xiao-Wen - KONG, Yue-Chan - CHEN, Tang-Sheng - YIN, Hua-Lei - JIANG, Dong - NIU, Bin - LU, Liang-Liang. Experimental quantum Byzantine agreement on a three-user quantum network with integrated photonics. In *SCIENCE ADVANCES*, 2024, vol. 10, no. 34, art. no. eadp2877. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.adp2877>, Registrované v: WOS
3. [1.1] KALTWASSER, Jakob - SEIP, Joschka - FITZKE, Erik - TIPPMANN, Maximilian - WALTHER, Thomas. Reducing the number of single-photon detectors in quantum-key-distribution networks by time multiplexing. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 1, art. no. 012618. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.012618>, Registrované v: WOS
4. [1.1] LEE, Alexandra - CASTILLO, Alfonso Tello - WHITEHILL, Craig - DONALDSON, Ross. The impact of spot-size on single-photon avalanche diode timing-jitter and quantum key distribution. In *IET QUANTUM COMMUNICATION*, 2024, vol. 5, no. 4, pp. 443-449. Dostupné na: <https://doi.org/10.1049/qtc2.12091>, Registrované v: WOS
5. [1.1] LI, He. A Quantum-Classical Codesign Framework for Security Enhanced Quantum Networks. In *2024 5TH INFORMATION COMMUNICATION TECHNOLOGIES CONFERENCE, ICTC 2024*, 2024, vol., no., pp. 76-81. Dostupné na: <https://doi.org/10.1109/ICTC61510.2024.10602299>, Registrované v: WOS
6. [1.1] SHAKER, Lina M. - AL-AMIERY, Ahmed - ISAHAK, Wan Nor Roslam Wan - AL-AZZAWI, Waleed Khalid. Advancements in Quantum Optics: Harnessing the Power of Photons for Next-Generation Technologies. In *JOURNAL OF OPTICS-INDIA*, 2024, vol. 53, no. 1, pp. 720-727. ISSN 0972-8821. Dostupné na: <https://doi.org/10.1007/s12596-023-01320-9>, Registrované v: WOS
7. [1.1] SHI, Run-hua - FANG, Xia-qin. Anonymous Classical Message Transmission Through Various Quantum Networks. In *IEEE TRANSACTIONS ON NETWORK SCIENCE AND ENGINEERING*, 2024, vol. 11, no. 3, pp. 2901-2913. ISSN 2327-4697. Dostupné na: <https://doi.org/10.1109/TNSE.2024.3354327>, Registrované v: WOS
8. [1.1] WANG, Yiru - YANG, Wanting - XIONG, Zehui - ZHAO, Yuping - QUEK, Tony Q. S. - HAN, Zhu. Harnessing the Power of AI-Generated Content for Semantic Communication. In *IEEE NETWORK*, 2024, vol. 38, no. 5, pp. 102-111. ISSN 0890-8044. Dostupné na: <https://doi.org/10.1109/MNET.2024.3420400>, Registrované v: WOS
9. [1.1] WEBB, Jonathan W. - HO, Joseph - GRASSELLI, Federico - MURTA, Glaucia - PICKSTON, Alexander - ULIBARRENA, Andres - FEDRIZZI, Alessandro. Experimental anonymous quantum conferencing. In *OPTICA*, 2024, vol. 11, no. 6, pp. 872-875. ISSN 2334-2536. Dostupné na: <https://doi.org/10.1364/OPTICA.514362>, Registrované v: WOS
10. [1.1] ZHENG, Wangsheng - GONG, Beili. Anonymous collision detection for practical quantum networks. In *PHYSICS LETTERS A*, 2024, vol. 525, no., art. no. 129854. ISSN 0375-9601. Dostupné na: <https://doi.org/10.1016/j.physleta.2024.129854>, Registrované v: WOS
11. [1.2] LI, Zhijian - ZHU, Peng. Exploring the Future of Quantum Computing-Enabled Blockchain Development: A Survey. In *Proceedings 2024 IEEE 4th International Conference on Digital Twins and Parallel Intelligence Dtpi 2024*, 2024-01-01, pp. 232-235. ISBN [9798350349252]. Dostupné na:

<https://doi.org/10.1109/DTPI61353.2024.10778714>, Registrované v: SCOPUS 12. [1.2] SIHARE, Shyam R. Quantum computing and cryptography in future computers. In *Quantum Computing and Cryptography in Future Computers*, 2024-07-26, pp. 1-381. ISBN [9781799895220, 9781799895244]. Dostupné na: <https://doi.org/10.4018/978-1-7998-9522-0>, Registrované v: SCOPUS

ADCA345 HUBER, M. - PLESCH, Martin. Purification of genuine multipartite entanglement. In *Physical Review A*, 2011, vol. 83, no. 6, art. no. 062321. (2010: 2.861 - IF, Q1 - JCR, 2.400 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.83.062321>

Citácie:

1. [1.1] O'NEIL, S. P. - WEIDNER, C. A. - JONCKHEERE, E. A. - LANGBEIN, F. C. - SCHIRMER, S. G. Robustness of dynamic quantum control: Differential sensitivity bounds. In *AVS QUANTUM SCIENCE*, 2024, vol. 6, no. 3, art. no. 032001. Dostupné na: <https://doi.org/10.1116/5.0196110>, Registrované v: WOS

2. [1.2] DE BONE, Sébastien - MÖLLER, Paul - BRADLEY, Conor E. - TAMINIAU, Tim H. - ELKOUSS, David. Thresholds for the distributed surface code in the presence of memory decoherence. In *Avs Quantum Science*, 2024-09-01, 6, 3, pp. Dostupné na: <https://doi.org/10.1116/5.0200190>, Registrované v: SCOPUS

ADCA346 HUDEC, Tomáš** - MIKULA, Marián - SATRAPINSKY, Leonid - ROCH, Tomáš - TRUCHLÝ, Martin - ŠVEC, Peter Jr. - HUMINIUC, Teodor - POLCAR, Tomáš. Structure, mechanical and tribological properties of Mo-S-N solid lubricant coatings. In *Applied Surface Science*, 2019, vol. 486, p. 1-14. (2018: 5.155 - IF, Q1 - JCR, 1.115 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2019.03.294>

Citácie:

1. [1.1] HU, Yue - WANG, Jingjing - LI, Wei - TANG, Xin - TAN, Tao - LI, Zetong - FENG, Haoxuan - ZHANG, Guangan. The effects of Ti content on tribological and corrosion performances of MoS₂-Ti composite films. In *VACUUM*, 2024, vol. 221, no., art. no. 112889. ISSN 0042-207X. Dostupné na: <https://doi.org/10.1016/j.vacuum.2023.112889>, Registrované v: WOS

2. [1.1] LAWTON, J. D. - THORNLEY, S. A. - WAKEHAM, S. J. - THWAITES, M. J. - STOLOJAN, V. - BAKER, M. A. Reactive remote plasma sputtering of TiO_x thin films and controlled growth of textured single-phase rutile using rf substrate biasing. In *SURFACE & COATINGS TECHNOLOGY*, 2024, vol. 476, no., art. no. 130247. ISSN 0257-8972. Dostupné na: <https://doi.org/10.1016/j.surfcoat.2023.130247>, Registrované v: WOS

3. [1.1] LI, Mohan - ZHANG, Xinfang - CAO, Mingmei - ZHOU, Zheng - RAO, Jinsong - YI, Shuang - ZHANG, Yuxin - FU, Jiawei - CHEN, Longmiao - DING, Songlin. Wear resistance of molybdenum disulfide-based coatings on titanium alloys: a review. In *JOURNAL OF MATERIALS SCIENCE*, 2024, vol. 59, no. 16, pp. 6662-6684. ISSN 0022-2461. Dostupné na: <https://doi.org/10.1007/s10853-024-09567-8>, Registrované v: WOS

4. [1.1] LUAN, Jing - LU, Hongying - XU, Junhua - FERNANDES, Filipe - EVARISTO, Manuel - MA, Bingyang - XIE, Fuxiang - CAVALEIRO, Albano - JU, Hongbo. Exploring tribological characteristics of ZrN-MoSN composite films fabricated via RF magnetron sputtering: Insights from microstructure and performance analysis. In *SURFACE & COATINGS TECHNOLOGY*, 2024, vol. 484, no., art. no. 130813. ISSN 0257-8972. Dostupné na: <https://doi.org/10.1016/j.surfcoat.2024.130813>, Registrované v: WOS

5. [1.1] MIAO, Changqing - TANG, Jun - YANG, Kang - XIAO, Na - SHAO, Zihé -

ZHANG, Feizhi - ZHANG, Honglei - XIONG, Yahui - XIONG, Bangying - CHEN, Hao. Recent Progress on the Tribological Applications of Solid Lubricants. In *JOURNAL OF TRIBOLOGY-TRANSACTIONS OF THE ASME*, 2024, vol. 146, no. 2, art. no. 020801. ISSN 0742-4787. Dostupné na:

<https://doi.org/10.1115/1.4063701>, Registrované v: WOS

6. [1.1] MUKHTAR, Sheikh Haris - GULZAR, Ahraf - SALEEM, Shahid - WANI, M. F. - SEHGAL, Rakesh - YAKOVENKO, A. A. - GORYACHEVA, I. G. - SHARMA, Mukund Dutt. Advances in development of solid lubricating MoS₂ coatings for space applications: A review of modeling and experimental approaches. In *TRIBOLOGY INTERNATIONAL*, 2024, vol. 192, no., art. no. 109194. ISSN 0301-679X. Dostupné na:

<https://doi.org/10.1016/j.triboint.2023.109194>, Registrované v: WOS

7. [1.1] SEYNSTAHL, Armin - KOBRICH, Manuel - ROSNITSCHKE, Tobias - GOEKEN, Mathias - TREMMEL, Stephan. Enhancing the lifetime and vacuum tribological performance of PVD-MoS₂ coatings by nitrogen modification. In *SURFACE & COATINGS TECHNOLOGY*, 2024, vol. 477, no., art. no. 130343. ISSN 0257-8972. Dostupné na: <https://doi.org/10.1016/j.surfcoat.2023.130343>, Registrované v: WOS

8. [1.1] WEI, Ningxin - LI, Hang - LI, Jianliang - SUN, Longlong - HUANG, Jiewen - KONG, Jian - WU, Qiujie - SHI, Yan - XIONG, Dangsheng. Structure, mechanical, tribological properties and corrosion resistance of C/N dual doping Mo-S-C-N films. In *APPLIED SURFACE SCIENCE*, 2024, vol. 646, no., art. no. 158905. ISSN 0169-4332. Dostupné na:

<https://doi.org/10.1016/j.apsusc.2023.158905>, Registrované v: WOS

ADCA347 HUTÁR, Peter** - ŠPANKOVÁ, Marianna - SOJKOVÁ, Michaela - DOBROČKA, Edmund - VĚGSŐ, Karol - HAGARA, Jakub - HALAHOVETS, Yuriy - MAJKOVÁ, Eva - ŠIFFALOVÍČ, Peter - HULMAN, Martin. Highly Crystalline MoS₂ Thin Films Fabricated by Sulfurization. In *Physica Status Solidi B. Basic Research*, 2019, vol. 256, no. 12, art. no. 1900342. (2018: 1.454 - IF, Q3 - JCR, 0.519 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0370-1972. Dostupné na: <https://doi.org/10.1002/pssb.201900342>

Citácie:

1. [1.1] CHANDRAN, Murugesan - CHELLASAMY, Gayathri - VEERAPANDIAN, Mekala - DHANASEKARAN, Barkavi - ARUMUGASAMY, Shiva Kumar - GOVINDARAJU, Saravanan - YUN, Kyusik. Fabrication of label-free immunoprobe for monkeypox A29 detection using one-step electrodeposited molybdenum oxide-graphene quantum rods. In *JOURNAL OF COLLOID AND INTERFACE SCIENCE*, 2024, vol. 660, no., pp. 412-422. ISSN 0021-9797.

Dostupné na: <https://doi.org/10.1016/j.jcis.2023.12.188>, Registrované v: WOS

ADCA348 HVIŽDOŠOVÁ, Adriana, Annušová** - MARINOV, Daniil - BOOTH, Jean-Paul - SIRSE, Nishant - LINO DA SILVA, Mario - LOPEZ, Bruno - GUERRA, Vasco. Kinetics of highly vibrationally excited O-2(X) molecules in inductively-coupled oxygen plasmas. In *Plasma Sources Science and Technology*, 2018, vol. 27, no. 4, art. no. 045006, [30] p. (2017: 3.939 - IF, Q1 - JCR, 1.015 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0963-0252. Dostupné na: <https://doi.org/10.1088/1361-6595/aab47d>

Citácie:

1. [1.1] ALBRECHTS, Matthias - TSONEV, Ivan - BOGAERTS, Annemie. Investigation of O atom kinetics in O₂ plasma and its afterglow. In *PLASMA SOURCES SCIENCE & TECHNOLOGY*, 2024, vol. 33, no. 4, art. no. 045017. ISSN 0963-0252. Dostupné na: <https://doi.org/10.1088/1361-6595/ad3f4a>, Registrované v: WOS

2. [1.1] KRAVCHENKO, Denis - KUNOVA, Olga - KUSTOVA, Elena - MELNIK, Maksim. Reflected shock waves in air components and their mixtures: Validation of theoretical models. In ACTA ASTRONAUTICA, 2024, vol. 218, no., pp. 47-58. ISSN 0094-5765. Dostupné na: <https://doi.org/10.1016/j.actaastro.2024.02.011>, Registrované v: WOS
3. [1.1] MEINDL, A. - HECIMOVIC, A. - FANTZ, U. Spatially resolved TALIF investigation of atomic oxygen in the effluent of a CO₂ microwave discharge. In PLASMA SOURCES SCIENCE & TECHNOLOGY, 2024, vol. 33, no. 4, art. no. 045013. ISSN 0963-0252. Dostupné na: <https://doi.org/10.1088/1361-6595/ad3c36>, Registrované v: WOS
4. [1.1] PIEROTTI, Giacomo - POPOLI, Arturo - PINTASSILGO, Carlos Daniel - CRISTOFOLINI, Andrea. Modeling Study of Chemical Kinetics and Vibrational Excitation in a Volumetric DBD in Humid Air at Atmospheric Pressure. In PLASMA CHEMISTRY AND PLASMA PROCESSING, 2024, vol. 44, no. 4, pp. 1575-1594. ISSN 0272-4324. Dostupné na: <https://doi.org/10.1007/s11090-024-10484-6>, Registrované v: WOS
5. [1.1] PIETANZA, L. D. - COLONNA, G. - CAPITELLI, M. Self-Consistent State-to-State Kinetic Modeling of CO₂ Cold Plasmas: Insights on the Role of Electronically Excited States. In PLASMA CHEMISTRY AND PLASMA PROCESSING, 2024, vol. 44, no. 3, pp. 1431-1468. ISSN 0272-4324. Dostupné na: <https://doi.org/10.1007/s11090-023-10407-x>, Registrované v: WOS
6. [1.1] ROGERS, Samuel D. A. - BOND, Amelia - PEVERALL, Robert - HANCOCK, Gus - RITCHIE, Grant A. D. Insights into spatial inhomogeneity in an oxygen plasma from cavity ringdown spectroscopy. In PLASMA SOURCES SCIENCE & TECHNOLOGY, 2024, vol. 33, no. 1, art. no. 015005. ISSN 0963-0252. Dostupné na: <https://doi.org/10.1088/1361-6595/ad1a79>, Registrované v: WOS
7. [1.1] SHU, Z. - POPOV, N. A. - STARIKOVSKAIA, S. M. Absolute calibration of the ratio of Xe/O two-photon absorption cross-sections for O-TALIF applications. In PLASMA SOURCES SCIENCE & TECHNOLOGY, 2024, vol. 33, no. 2, art. no. 025019. ISSN 0963-0252. Dostupné na: <https://doi.org/10.1088/1361-6595/ad270f>, Registrované v: WOS
8. [1.2] CAPITELLI, M. - CELIBERTO, R. - COLONNA, G. - LARICCHIUTA, A. - PIETANZA, L. D. The self-consistent approach in cold plasma kinetics: From negative ion sources to molecular activation. In Fundamental Plasma Physics, 2024-04-01, 9, pp. Dostupné na: <https://doi.org/10.1016/j.fpp.2024.100037>, Registrované v: SCOPUS

ADCA349

HVIZDOŠOVÁ, Adriana, Annušová** - LABUDOVÁ, Martina - TRUCHAN, Daniel - HEGEDŮŠOVÁ, Veronika - ŠVAJDLENKOVÁ, Helena - MIČUŠÍK, Matej - KOTLÁR, Mário - PRIBUSOVÁ SLUŠNÁ, Lenka - HULMAN, Martin - SALEHTASH, Farnoush - KÁLOSI, Anna - CSÁDEROVÁ, Lucia - ŠVASTOVÁ, Eliška - ŠIFFALOVIČ, Peter - JERGEL, Matej - PASTOREKOVÁ, Silvia - MAJKOVÁ, Eva. Selective Tumor Hypoxia Targeting Using M75 Antibody Conjugated Photothermally Active MoO_x Nanoparticles. In ACS Omega, 2023, vol. 8, no. 47, p. 44497-44513. (2022: 4.1 - IF, Q2 - JCR, 0.694 - SJR, Q1 - SJR). ISSN 2470-1343. Dostupné na: <https://doi.org/10.1021/acsomega.3c01934>

Citácie:

1. [1.1] BHARDWAJ, M. - KOUR, D. - RAI, G. - BHATTACHARYA, S. - MANHAS, D. - VIJ, B. - KUMAR, A. - MUKHERJEE, D. - AHMED, Z. - GANDHI, S.G. - NANDI, U. EIDD-1931 Treatment Tweaks CYP3A4 and CYP2C8 in Arthritic Rats to Expedite Drug Interaction: Implication in Oral Therapy of Molnupiravir. In ACS OMEGA. ISSN 2470-1343, MAR 15 2024, vol. 9, no. 12, p.

13982-13993. Dostupné na: <https://doi.org/10.1021/acsomega.3c09287>,

Registrované v: WOS

2. [1.1] CARNEVALI, F. - FORCINITI, S. - ONESTO, V. - SICILIANO, A.C. - IUELE, H. - GRASSO, G. - DA CRUZ, A.F. - SERRA, I. - DEPALMA, N. - D'UGO, S. - PISCITELLI, P. - SPAMPINATO, M.G. - GIGLI, G. - DE OLIVEIRA, C.D. - DEL MERCATO, L.L. Advancements in Cancer Research: 3D Models, Single-Cell, and Live-Cell Techniques for Better Insights. In *ADVANCED THERAPEUTICS*. DEC 2024, vol. 7, no. 12. Dostupné na:

<https://doi.org/10.1002/adtp.202400351>, Registrované v: WOS

3. [1.1] RONCA, R. - SUPURAN, C.T. Carbonic anhydrase IX: An atypical target for innovative therapies in cancer. In *BIOCHIMICA ET BIOPHYSICA ACTA-REVIEWS ON CANCER*. ISSN 0304-419X, JUL 2024, vol. 1879, no. 4, art. no. 189120. Dostupné na: <https://doi.org/10.1016/j.bbcan.2024.189120>, Registrované v: WOS

4. [1.1] SAADH, M.J. - MUSTAFA, M.A. - QASSEM, L.Y. - GHADIR, G.K. - ALARAJ, M. - ALUBIADY, M.H.S. - AL-ABDEEN, S.H.Z. - SHAKIER, H.G. - ALSHAHRANI, M.Y. - ZWAMEL, A.H. Targeting hypoxic and acidic tumor microenvironment by nanoparticles: A review. In *JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY*. ISSN 1773-2247, JUN 2024, vol. 96, art. no. 105660. Dostupné na: <https://doi.org/10.1016/j.jddst.2024.105660>, Registrované v: WOS

ADCA350 HVIZDOŠOVÁ, Adriana, Annušová** - BODIK, Michal - HAGARA, Jakub - KOTLÁR, Mário - HALAHOVETS, Yuriy - MIČUŠÍK, Matej - CHLPÍK, Juraj - CIRÁK, Július - HOFBAUEROVÁ, Monika, Benkovičová - JERGEL, Matej - MAJKOVÁ, Eva - ŠIFFALOVÍČ, Peter. On the extraction of MoOx photothermally active nanoparticles by gel filtration from a byproduct of few-layer MoS2 exfoliation. In *Nanotechnology*, 2021, vol. 32, no. 4, art. no. 045708. (2020: 3.874 - IF, Q2 - JCR, 0.926 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0957-4484. Dostupné na: <https://doi.org/10.1088/1361-6528/abc035>

Citácie:

1. [1.1] SAHOO, Anubhab - DIXIT, Tejendra - KUMAR, K. V. Anil - GANAPATHI, K. Lakshmi - NAYAK, Pramoda K. - RAO, M. S. Ramachandra - KRISHNAN, Sivarama. Elucidating the Role of Electron Transfer in the Photoluminescence of MoS2 Quantum Dots Synthesized by fs-Pulse Ablation. In *JOURNAL OF PHYSICAL CHEMISTRY LETTERS*, 2024, vol. 15, no. 21, pp. 5586-5593. ISSN 1948-7185. Dostupné na: <https://doi.org/10.1021/acs.jpcllett.4c00215>, Registrované v: WOS

ADCA351 CHADWICK, M.B. - OBLOŽINSKÝ, Pavol - HODGSON, P.E. - REFFO, G. Pauli-blocking in the quasideuteron model of photoabsorption. In *Physical Review C*, 1991, vol. 44, no. 2, p. 814-823. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.44.814>

Citácie:

1. [1.1] DALAL, Ranjeet - MACGREGOR, I. J. Douglas. Nucleon-nucleon correlations inside atomic nuclei: synergies, observations and theoretical models. In *REPORTS ON PROGRESS IN PHYSICS*, 2024, vol. 87, no. 3, art. no. 034301. ISSN 0034-4885. Dostupné na: <https://doi.org/10.1088/1361-6633/ad27dd>, Registrované v: WOS

ADCA352 CHADWICK, M.B. - OBLOŽINSKÝ, Pavol. Linear momentum in the exciton model - a consistent way to obtain angular-distributions. In *Physical Review C*, 1991, vol. 44, no. 5, p. R1740-R1744. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.44.R1740>

Citácie:

1. [1.1] WANG, Wenye - WANG, Jimin - HAN, Yinlu - XI, Tao - JIN, Yongli - XU, Ruirui - YUE, Zhang. Calculations and analysis of n +SUP52/SUPCr reactions below 20 MeV. In *JOURNAL OF NUCLEAR SCIENCE AND TECHNOLOGY*, 2024, vol. 61, no. 2, pp. 237-250. ISSN 0022-3131. Dostupné na:

<https://doi.org/10.1080/00223131.2023.2294191>, Registrované v: WOS

ADCA353

CHATELAIN, Christophe** - GENDIAR, Andrej*. Absence of logarithmic divergence of the entanglement entropies at the phase transitions of a 2D classical hard rod model. In *European Physical Journal B*, 2020, vol. 93, no. 7, art. no. 134. (2019: 1.347 - IF, Q3 - JCR, 0.459 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1434-6028. Dostupné na:

<https://doi.org/10.1140/epjb/e2020-10059-8>

Citácie:

1. [1.1] CHATELAIN, C. CTMRG study of the critical behavior of an interacting-dimer model. In *JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT*, 2024, vol. 2024, no. 8, art. no. 083201. ISSN 1742-5468.

Dostupné na: <https://doi.org/10.1088/1742-5468/ad5c5d>, Registrované v: WOS

ADCA354

CHAUDHARY, Jyoti - THAKUR, Sourbh** - MAMBA, Gcina - PRATEEK - GUPTA, Raju Kumar - THAKUR, Vijay Kumar. Hydrogel of gelatin in the presence of graphite for the adsorption of dye: towards the concept for water purification. In *Journal of Environmental Chemical Engineering*, 2021, vol. 9, no. 1, art. no. 104762. (2020: 5.909 - IF, Q1 - JCR, 0.965 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2213-3437. Dostupné na:

<https://doi.org/10.1016/j.jece.2020.104762>

Citácie:

1. [1.1] ALGHAMDI, Huda M. - ELGARAHY, Ahmed M. - ZOROMBA, Mohamed Sh. - ELWAKEEL, Khalid Z. A microwave-regenerable multi-walled carbon nanotube/polyaniline/ Fe₃O₄ ternary nanocomposite for quantifiable sorption of cationic and anionic dyes. In *COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS*, 2024, vol. 698, no., art. no. 134438. ISSN 0927-7757. Dostupné na:

<https://doi.org/10.1016/j.colsurfa.2024.134438>, Registrované v: WOS

2. [1.1] BRITO DOS SANTOS, Fernanda - PEREZ, Isadora Dias - MCMICHAEL, Philip Spencer - VASCONCELOS FREGOLENTE, Leonardo - MACIEL, Maria Regina Wolf - TAM, Kam Chiu. Synthesis of a Novel Cellulose Nanofiber-Based Composite Hydrogel with Poly(methyl methacrylate-co-methacrylic Acid) for Effective Water Removal from Liquid Fuels. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*, 2024, vol. 63, no. 5, pp. 2210-2222. ISSN 0888-5885.

Dostupné na: <https://doi.org/10.1021/acs.iecr.3c02019>, Registrované v: WOS

3. [1.1] CHEN, Dongjun - LIU, Juan - QIAN, Zhen - XIAO, Yunpeng - LIU, Yifan - LV, Yuancai - YE, Xiaoxia - LIN, Chunxiang. Enhanced cesium removal from wastewater using a potassium hexacyanoferrate/gelatin aerogel composite. In *PROCESS SAFETY AND ENVIRONMENTAL PROTECTION*, 2024, vol. 191, no., pp. 631-642. ISSN 0957-5820. Dostupné na:

<https://doi.org/10.1016/j.psep.2024.09.010>, Registrované v: WOS

4. [1.1] KRISHNA, D. V. - SANKAR, M. R. - SARMA, P. V. G. K. - SAMUNDESHWARI, E. L. Copper nanoparticles loaded gelatin/ polyvinyl alcohol/ guar gum-based 3D printable multimaterial hydrogel for tissue engineering applications. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, 2024, vol. 276, no., art. no. 133866. ISSN 0141-8130.

Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2024.133866>, Registrované v: WOS

5. [1.1] KRISHNA, Devara Venkata - SANKAR, Mamilla Ravi. Synthesis and characterization of SiO₂ nanoparticles reinforced 3D printable gelatin/PVA/guar gum/ hydroxypropyl methylcellulose-based biocomposite hydrogel. In *INDUSTRIAL CROPS AND PRODUCTS*, 2024, vol. 218, no., art. no. 118977. ISSN 0926-6690. Dostupné na: <https://doi.org/10.1016/j.indcrop.2024.118977>, Registrované v: WOS
6. [1.1] LI, Kaixuan - GE, Peng - WU, Xi-Lin - SHEN, Cailiang. In vitro cytotoxicity assessment of carbonaceous gels for bone marrow mesenchymal stem cells. In *FOOD AND CHEMICAL TOXICOLOGY*, 2024, vol. 193, no., art. no. 114961. ISSN 0278-6915. Dostupné na: <https://doi.org/10.1016/j.fct.2024.114961>, Registrované v: WOS
7. [1.1] PARK, Sunho - SHARMA, Harshita - SAFDAR, Mahpara - LEE, Jeongryun - KIM, Woonchan - PARK, Sangbae - JEONG, Hoon Eui - KIM, Jangho. Micro/nanoengineered agricultural by-products for biomedical and environmental applications. In *ENVIRONMENTAL RESEARCH*, 2024, vol. 250, no., art. no. 118490. ISSN 0013-9351. Dostupné na: <https://doi.org/10.1016/j.envres.2024.118490>, Registrované v: WOS
8. [1.1] PEIGHAMBARDoust, Seyed Jamaledin - ZARDKHANEH, Shabnam Imani - FOROUGH, Mahsa - FOROUTAN, Rauf - AZIMI, Hamidreza - RAMAVANDI, Bahman. Effectiveness of polyacrylamide-g-gelatin/ACL/Mg-Fe LDH composite hydrogel as an eliminator of crystal violet dye. In *ENVIRONMENTAL RESEARCH*, 2024, vol. 258, no., art. no. 119428. ISSN 0013-9351. Dostupné na: <https://doi.org/10.1016/j.envres.2024.119428>, Registrované v: WOS
9. [1.1] PEREIRA, Veronica - GOH, Zheng Xun Denver - MOGAN, Tharishinny Raja - NG, Li Shiuan - DAS, Sankar - LI, Haitao - LEE, Hiang Kwee. Magnetic Hydrogel Microbots for Efficient Pollutant Decontamination and Self-Catalyzed Regeneration in Continuous Flow Systems. In *SMALL*, 2024, vol. 20, no. 47. ISSN 1613-6810. Dostupné na: <https://doi.org/10.1002/sml.202405699>, Registrované v: WOS
10. [1.1] RESENDE, Jayana Freitas - PAULINO, Isabela Maria Reck - OLIVEIRA, Marina dos Reis - FERRI, Bruna Bruguer - BERGAMASCO, Rosangela - GUILHERME, Marcos R. - RINALDI, Andrelson W. - VIEIRA, Angelica Marquetotti Salcedo. Synthesis of hydrogels from fractionated proteins of *Moringa oleifera* Lam. seeds for the treatment of water contaminated with black reactive dye 5. In *CANADIAN JOURNAL OF CHEMICAL ENGINEERING*, 2024, vol. 102, no. 2, pp. 685-702. ISSN 0008-4034. Dostupné na: <https://doi.org/10.1002/cjce.25088>, Registrované v: WOS
11. [1.1] SONG, Jie - WEI, Zhiqiang - CHEN, Lijun - LI, Xi - NIU, Yuhua - ZHANG, Rong. Adsorption Properties of Carboxyl-Functionalized Cyclodextrin Hydrogels for Tetracycline Hydrochloride. In *ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING*, 2024, vol. 49, no. 1, pp. 773-786. ISSN 2193-567X. Dostupné na: <https://doi.org/10.1007/s13369-023-08435-y>, Registrované v: WOS
12. [1.1] WANG, Yue - ZHANG, Tingting - HUANG, Meizi - ZHANG, Ming - HE, Yu-Cai. Preparation of dandelion flower extract-based polyvinyl alcohol-chitosan-dandelion-CuNPs composite gel for efficient bacteriostatic and dye adsorption. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, 2024, vol. 281, no., art. no. 136512. ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2024.136512>, Registrované v: WOS
13. [1.1] ZHANG, Feng - ZHAO, Qiyue - ZHU, Di - GAO, Shoujian - FANG,

Wangxi - JIN, Jian. Multifunctional Polydopamine-Modified CuO Nanowire-Haired Membranes for Efficient Oil/Water Separation and Dye Removal. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*, 2024, vol. 63, no. 22, pp. 9955-9963. ISSN 0888-5885. Dostupné na:

<https://doi.org/10.1021/acs.iecr.3c04247>, Registrované v: WOS

- ADCA355 CHAUHAN, Purna** - HASENÖHRL, Stanislav - DOBROČKA, Edmund - VANČO, L. - STOKLAS, Roman - KOVÁČ, Jaroslav - ŠIFFALOVIČ, Peter - KUZMÍK, Ján. Effect of temperature and carrier gas on the properties of thick InxAl1-xN layer. In *Applied Surface Science*, 2019, vol. 470, p. 1-7. (2018: 5.155 - IF, Q1 - JCR, 1.115 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na:

<https://doi.org/10.1016/j.apsusc.2018.10.231>

Citácie:

1. [1.1] YUE, Zhiang - ZHANG, Xian - ZHAO, Enqin - XIANG, Guojiao - ZHANG, Jinming - JIN, Yidan - JIN, Wenwen - SHU, Jingwen - WANG, Lukai - HE, Hangyu - YE, Wenxuan - WANG, Hui - ZHAO, Yang. Bidirectional UV/violet heterojunction light-emitting diode with In_{0.27}Al_{0.73}N alloy film as electron transport layer. In *JOURNAL OF ALLOYS AND COMPOUNDS*, 2024, vol. 1001, no., art. no. 175193. ISSN 0925-8388. Dostupné na:

<https://doi.org/10.1016/j.jallcom.2024.175193>, Registrované v: WOS

- ADCA356 CHITU, L. - JERTEL, Matej - MAJKOVÁ, Eva - LUBY, Štefan - CAPEK, Ignác - SATKA, A. - IVAN, Jozef - KOVÁČ, Jozef - TIMKO, Milan. Structure and magnetic properties of CoFe₂O₄ and Fe₃O₄ nanoparticles. In *Materials Science and Engineering C - Biomimetic and Supramolecular Systems*, 2007, vol. 27, no. 5-8, p. 1415-1417. (2006: 1.325 - IF, Q2 - JCR, 0.720 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, WOS, SCOPUS). ISSN 0928-4931. Dostupné na:

<https://doi.org/10.1016/j.msec.2006.07.036>

Citácie:

1. [1.1] YANG, L.J. - LI, X.B. - CHEN, Y. - ZHENG, X.L. - SUN, K. Ortho to para hydrogen conversion over bimetallic iron and cobalt catalysts. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, SEP 9 2024, vol. 14, no. 1. Dostupné na:

<https://doi.org/10.1038/s41598-024-71790-9>, Registrované v: WOS

- ADCA357 CHITU, Livia - ŠIFFALOVIČ, Peter - MAJKOVÁ, Eva - JERTEL, Matej - VÉGSÖ, Karol - LUBY, Štefan - CAPEK, Ignác - SATKA, A. - PERLICH, J. - TIMMANN, A. - ROTH, S.V. - KECKES, J. - MAIER, G.A. Modified Langmuir-Blodgett deposition of nanoparticles-measurement of 2D to 3D ordered arrays. In *Measurement Science Review*, 2010, vol. 10, no. 5, p. 162-165. (2009: 0.115 - SJR, Q4 - SJR). (2010 - WOS, SCOPUS). ISSN 1335-8871. Dostupné na:

<https://doi.org/10.2478/v10048-010-0028-0>

Citácie:

1. [1.1] HONCIUC, Andrei - NEGRU, Oana-Iuliana - HONCIUC, Mirela. Interfacing Langmuir-Blodgett and Pickering Emulsions for the Synthesis of 2D Nanostructured Films: Applications in Copper Ion Adsorption. In *NANOMATERIALS*, 2024, vol. 14, no. 9, art. no. 809. Dostupné na:

<https://doi.org/10.3390/nano14090809>, Registrované v: WOS

- ADCA358 CHUSHKIN, Jurij - JERTEL, Matej - LUBY, Štefan - MAJKOVÁ, Eva - OŽVOLD, Milan - KUWASAWA, Y. - OKAYASU, S. - D'ANNA, E. - LUCHES, A. - MARTINO, M. Giant magnetoresistance in evaporated nanometer scale Fe/W and Co/W multilayers. In *Applied Surface Science*, 2005, vol. 243, no. 1-4, p. 62-67. ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2004.08.031>

Citácie:

1. [1.1] OKANA-LOMANGA, A. L. - NGANTSO, G. Dimitri - MALONDA-

- BOUNGOU, B. R. - RAJI, A. T. - PASSI-MABIALA, B. m ';; Adsorption of dihalogen molecules X_2 ($X = F, Cl, Br$ and I) on the Fe/W (110) substrate. In *SURFACE SCIENCE*, 2024, vol. 748, no., art. no. 122536. ISSN 0039-6028. Dostupné na: <https://doi.org/10.1016/j.susc.2024.122536>, Registrované v: WOS
- ADCA359 IGA, H. - MIHALKOVIČ, Marek - ISHIMASA, T. Approximant of dodecagonal quasicrystal formed in Mn-Si-V alloy. In *Philosophical Magazine*, 2011, vol. 91, no. 19-21, p. 2624-2633. (2010: 1.304 - IF, Q1 - JCR, 1.031 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1478-6435. Dostupné na: <https://doi.org/10.1080/14786435.2010.508448>
- Citácie:
1. [1.1] GRESSEL, Danica G. - SANDERS, Kyana M. - FREDRICKSON, Daniel C. Interface Nucleus Complementarity: An Iterative Process for the Discovery of Modular Intermetallics Guided by Chemical Pressure. In *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*, 2024, vol. 146, no. 37, pp. 25439-25444. ISSN 0002-7863. Dostupné na: <https://doi.org/10.1021/jacs.4c09131>, Registrované v: WOS
- ADCA360 IGBARI, Femi - XU, Fa-Feng - SHAO, Jiang-Yang - DIN, Muhammad Faraz Ud - ŠIFFALOVIČ, Peter - ZHONG, Yu-Wu**. Stacking Interactions and Photovoltaic Performance of $Cs_2AgBiBr_6$ Perovskite. In *Solar RRL*, 2023, vol. 7, no. 6, art. no. 2200932. (2022: 7.9 - IF, Q1 - JCR, 2.24 - SJR, Q1 - SJR). ISSN 2367-198X. Dostupné na: <https://doi.org/10.1002/solr.202200932>
- Citácie:
1. [1.1] ALSALMAH, Hessa A. - MEHMOOD, Shahid. First-principles calculation to investigate structural and opto-electronic properties of transition base halide perovskite oxides for solar cell applications. In *SOLAR ENERGY*, 2024, vol. 273, no., art. no. 112498. ISSN 0038-092X. Dostupné na: <https://doi.org/10.1016/j.solener.2024.112498>, Registrované v: WOS
2. [1.1] LV, Zhipeng - GAO, Huiping - HU, Yayong - FAN, Yunpeng - PAN, Gencai - ZHANG, Huafang - YOU, Wenwu - ZHANG, Zhenlong - MAO, Yanli. Ultraviolet-Visible-Near-Infrared Broadband Photodetector Enabled by $Cs_2AgBiBr_6$: Sn/Conjugated Polymer Heterojunction. In *ACS APPLIED MATERIALS & INTERFACES*, 2024, vol. 16, no. 38, pp. 51055-51064. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.4c09281>, Registrované v: WOS
3. [1.1] SUN TANG-YOU - YU YAN-LI - QIN ZU-BIN - CHEN ZAN-HUI - CHEN JUN-LI - JIANG YUE - ZHANG FA-BI. Multi-band response $Cs_2AgBiBr_6$ double perovskite photodetector based on TiO_2 nanopillars. In *ACTA PHYSICA SINICA*, 2024, vol. 73, no. 7, art. no. 078502. ISSN 1000-3290. Dostupné na: <https://doi.org/10.7498/aps.73.20231919>, Registrované v: WOS
- ADCA361 IHARAGI, T. - GENDIAR, Andrej - UEDA, H. - NISHINO, T. Phase transition of the ising model on a hyperbolic lattice. In *Journal of the Physical Society of Japan*, 2010, vol. 79, no. 10, art. no. 104001. (2009: 2.572 - IF, Q2 - JCR, 2.074 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0031-9015. Dostupné na: <https://doi.org/10.1143/JPSJ.79.104001>
- Citácie:
1. [1.1] LUKIN, I. - SOTNIKOV, A. G. Corner transfer matrix renormalization group approach in the zoo of Archimedean lattices. In *PHYSICAL REVIEW E*, 2024, vol. 109, no. 4, art. no. 045305. ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.109.045305>, Registrované v: WOS
2. [1.2] OKUNISHI, Kouichi - TAKAYANAGI, Tadashi. Statistical mechanics approach to the holographic renormalization group: Bethe lattice Ising model and p -adic AdS/CFT. In *Progress of Theoretical and Experimental Physics*, 2024-01-

01, 2024, 1, pp. Dostupné na: <https://doi.org/10.1093/ptep/ptad156>, Registrované v: SCOPUS

ADCA362 ILLEKOVÁ, Emília - GACHON, J.C. - ROGACHEV, A. - GRIGORYAN, H. - SCHUSTER, J.C. - NOSYREV, A. - TSYGANKOV, P. Kinetics of intermetallic phase formation in the Ti/Al multilayers. In *Thermochimica Acta*, 2008, vol. 469, no. 1-2, p. 77-85. (2007: 1.562 - IF, Q3 - JCR, 0.799 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0040-6031. Dostupné na: <https://doi.org/10.1016/j.tca.2007.12.011>

Citácie:

1. [1.1] SARAVANA SUNDAR, A. - MUGADA, Krishna Kishore - KUMAR, Adepu. Enhancing Microstructural, Textural, and Mechanical Properties of Al-Ti Dissimilar Joints via Static Shoulder Friction Stir Welding. In *JOURNAL OF MANUFACTURING SCIENCE AND ENGINEERING-TRANSACTIONS OF THE ASME*, 2024, vol. 146, no. 2, art. no. 021004. ISSN 1087-1357. Dostupné na: <https://doi.org/10.1115/1.4063358>, Registrované v: WOS

2. [1.1] SUNDAR, A. Saravana - RADHIKA, N. - KUMAR, Adepu. Role of submerged friction stir welding in reducing intermetallic growth and enhancing microstructure in dissimilar Al-Ti joints. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 26908. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-78130-x>, Registrované v: WOS

ADCA363 ILLEKOVÁ, Emília - HARNÚŠKOVÁ, Jana - FLOREK, Roman - SIMANČÍK, František - MAŤKO, Igor - ŠVEC, Peter. Peculiarities of TiH₂ decomposition. In *Journal of Thermal Analysis and Calorimetry*, 2011, vol. 105, no. 2, p. 583-590. (2010: 1.752 - IF, Q3 - JCR, 0.474 - SJR, Q3 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/s10973-010-1232-8>

Citácie:

1. [1.1] MARTINEZ-GARCIA, A. - ESTRADA-GUEL, I. - REGUERA, E. - AMARO-HERNANDEZ, R. - GONZALEZ, S. - GARAY-REYES, C. G. - MARTINEZ-SANCHEZ, R. Design and mechanosynthesis of Low-Weight High-Entropy Alloys with hydrogen storage potential properties. In *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, 2024, vol. 50, no., pp. 670-684. ISSN 0360-3199. Dostupné na: <https://doi.org/10.1016/j.ijhydene.2023.07.341>, Registrované v: WOS

ADCA364 ISHIMASA, T. - IWAMI, S. - SAKAGUCHI, N. - OOTA, R. - MIHALKOVIČ, Marek. Phason space analysis and structure modelling of 100 angstrom-scale dodecagonal quasicrystal in Mn-based alloy. In *Philosophical Magazine*, 2015, vol. 95, no. 33, p. 3745-3767. (2014: 1.825 - IF, Q1 - JCR, 0.939 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1478-6435. Dostupné na: <https://doi.org/10.1080/14786435.2015.1095365>

Citácie:

1. [1.1] IMPEROR-CLERC, Marianne - KALUGIN, Pavel - SCHENK, Sebastian - WIDDRA, Wolf - FOERSTER, Stefan. Higher-dimensional geometrical approach for the characterization of two-dimensional square-triangle-rhombus tilings. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 14, art. no. 144106. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.144106>, Registrované v: WOS

2. [1.1] KARAVOLIAS, Michael G. - MAHANTHAPPA, Mahesh K. Self-assembled complex micelle phase stability in ABA-type triblock copolymers and related core-shell bottlebrushes. In *PHYSICAL REVIEW MATERIALS*, 2024, vol. 8, no. 1, art. no. 015603. ISSN 2475-9953. Dostupné na: <https://doi.org/10.1103/PhysRevMaterials.8.015603>, Registrované v: WOS

3. [1.1] MATSUSHITA, Yushu - OHTA, Mitsuhiro - SUZUKI, Noritomo - SUZUKI, Makoto - KITAHARA, Ayane - TAKANO, Atsushi. *Nearly Ideal Random Tiling with Dodecagonal Symmetry from Pentablock Quarterpolymers of the AB1CB2D Type*. In *ACS NANO*, 2024, vol. 18, no. 26, pp. 17135-17144. ISSN 1936-0851. Dostupné na: <https://doi.org/10.1021/acsnano.4c03782>, Registrované v: WOS

4. [1.1] ZHOU, Wenjie - LIM, Yein - LIN, Haixin - LEE, Sangmin - LI, Yuanwei - HUANG, Ziyin - DU, Jingshan S. - LEE, Byeongdu - WANG, Shunzhi - SANCHEZ-IGLESIAS, Ana - GRZELCZAK, Marek - LIZ-MARZAN, Luis M. - GLOTZER, Sharon C. - MIRKIN, Chad A. *Colloidal quasicrystals engineered with DNA*. In *NATURE MATERIALS*, 2024, vol. 23, no. 3. ISSN 1476-1122.

Dostupné na: <https://doi.org/10.1038/s41563-023-01706-x>, Registrované v: WOS

ADCA365

IVANČO, Ján - TOADER, T. - FIRSOV, A. - BRZHEZINSKAYA, M. - SPERLLING, M. - BRAUN, W. - ZAHN, D.R.T. *Indium on a copper phthalocyanine thin film: Not a reactive system*. In *Physical Review B*, 2010, vol. 81, no. 11, art. no. 115325. (2009: 3.475 - IF, 3.107 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.81.115325>

Citácie:

1. [1.1] ZHOU, Yuyang - SHAO, Shengyu - HAN, Xiang - ZHOU, Baocheng - HAN, Yifeng - DONG, Xiaoping - YU, Sanchuan. *The Flower-Shaped Co (II) and Cu (II) Phthalocyanine Polymers as Highly Efficient and Stable Catalysts for Chemical Fixation of CO₂ to Cyclic Carbonate*. In *C-JOURNAL OF CARBON RESEARCH*, 2024, vol. 10, no. 3, art. no. 74. Dostupné na:

<https://doi.org/10.3390/c10030074>, Registrované v: WOS

ADCA366

JAHNATEK, M. - HAFNER, J. - KRAJČÍ, Marián. *Shear deformation, ideal strength, and stacking fault formation of fcc metals: A density-functional study of Al and Cu*. In *Physical Review B*, 2009, vol. 79, no. 22, art. no. 224103. (2008: 3.322 - IF, Q1 - JCR, 2.923 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.79.224103>

Citácie:

1. [1.1] SHANG, Shun-Li - GAO, Michael C. - WANG, Yi - LI, Jingjing - BEESE, Allison M. - LIU, Zi-Kui. *Mechanical properties of pure elements from a comprehensive first-principles study to data-driven insights*. In *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING*, 2024, vol. 918, no., art. no. 147446. ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2024.147446>,

Registrované v: WOS

2. [1.2] EGHTESAD, Adnan - SHIMANEK, John D. - SHANG, Shun Li - LEBENSOHN, Ricardo - KNEZEVIC, Marko - LIU, Zi Kui - BEESEA, Allison M. *Density functional theory-informed dislocation density hardening within crystal plasticity: Application to modeling deformation of Ni polycrystals*. In *Zentropy Tools Modelling and Applications*, 2024-08-23, pp. 565-584. ISBN [9789815129441, 9781040118566]., Registrované v: SCOPUS

ADCA367

JAHNÁTEK, M. - KRAJČÍ, Marián - HAFNER, J. *Response of trialuminides to [110] uniaxial loading:: An ab initio study for Al₃(Sc,Ti,V)*. In *Physical Review B*, 2007, vol. 76, no. 1, art. no. 014110. (2006: 3.107 - IF, Q1 - JCR, 2.620 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.76.014110>

Citácie:

1. [1.1] MENG, Yanan - WANG, Shuo - SU, Hui - ZHANG, Chi - WANG, Bing -

XUE, Chengpeng - WANG, Junsheng. *The Effect of Point Defects on Young's Modulus of the Off-Stoichiometric Al₃X (X = Li, Sc, and Zr) Phases: A First-Principles Study*. In *METALS*, 2024, vol. 14, no. 1, art. no. 30. Dostupné na: <https://doi.org/10.3390/met14010030>, Registrované v: WOS

ADCA368 JAHNÁTEK, M. - KRAJČÍ, Marián - HAFNER, J. Interatomic bonds and the tensile anisotropy of trialuminides in the elastic limit:: a density functional study for Al₃(Sc,Ti,V,Cr). In *Philosophical Magazine*, 2007, vol. 87, no. 11, p. 1769-1794. (2006: 1.354 - IF, Q1 - JCR, 1.177 - SJR, Q1 - SJR). ISSN 1478-6435. Dostupné na: <https://doi.org/10.1080/14786430601057946>

Citácie:

1. [1.1] BOULECHFAR, R. - SAYAD, D. - KHENIOUI, Y. - MERADJI, H. - GHEMID, S. - KHENATA, R. - BIN-OMRAN, S. - BOUHEMADOU, A. - GOUMRI-SAID, Souraya. *Theoretical investigations of Zr-concentration influence on the thermodynamic, elastic, electronic, and structural stability of D022/L12-Al₃Ti*. In *EUROPEAN PHYSICAL JOURNAL B*, 2024, vol. 97, no. 1, art. no. 1. ISSN 1434-6028. Dostupné na: <https://doi.org/10.1140/epjb/s10051-023-00643-7>, Registrované v: WOS

2. [1.1] WANG, Xue-Qian - ZHAO, Ying - LIU, Hao-Xuan - SUN, Shu-Chen - YANG, Hong-Bo - ZHONG, Jia-Min - TU, Gan-Feng - LI, Song - ZHANG, Yu-Dong - ESLING, Claude - YAN, Hai-Le - ZUO, Liang. *Finite-temperature ductility-brittleness and electronic structures of Al_nSc (n=1, 2 and 3)*. In *RARE METALS*, 2024, vol. 43, no. 8, pp. 3974-3989. ISSN 1001-0521. Dostupné na: <https://doi.org/10.1007/s12598-024-02694-w>, Registrované v: WOS

ADCA369 JAHNÁTEK, Michal - KRAJČÍ, Marián - HAFNER, Jürgen. Electronic structure and interatomic bonding in Al₁₀V. In *Journal of Physics: Condensed Matter*, 2003, vol. 15, no. 33, p. 5675-5688. (2002: 1.775 - IF, karentované - CCC). (2003 - Current Contents, SCOPUS). ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/0953-8984/15/33/302>

Citácie:

1. [1.1] CHEN, Xu - CHEN, Ji - XI, Weiguo - CAI, Qizhou - CHENG, Jingfan - JIANG, Wenming. *Effect of Vanadium Addition on Solidification Microstructure and Mechanical Properties of Al-4Ni Alloy*. In *MATERIALS*, 2024, vol. 17, no. 2, art. no. 332. Dostupné na: <https://doi.org/10.3390/ma17020332>, Registrované v: WOS

ADCA370 JAHNÁTEK, Michal - KRAJČÍ, Marián - HAFNER, Jürgen. Interatomic bonding, elastic properties, and ideal strength of transition metal aluminides: A case study for Al-3(V,Ti). In *Physical Review B*, 2005, vol. 71, no. 2, art. no. 024101. (2004: 3.075 - IF, karentované - CCC). (2005 - Current Contents). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.71.024101>

Citácie:

1. [1.1] BEN SADALLAH, H. - BOULECHFAR, R. - MERADJI, H. - GHEMID, S. - KHENIOUI, Y. - LEBGA, N. - KHENATA, R. - BIN-OMRAN, S. - UL HAQ, Bakhtiar - KIM, Se-Hun. *Phase stability and physical behaviour of Fe₃Pd, FePd and FePd₃ binary intermetallic compounds*. In *PHYSICA B-CONDENSED MATTER*, 2024, vol. 686, no., art. no. 416074. ISSN 0921-4526. Dostupné na: <https://doi.org/10.1016/j.physb.2024.416074>, Registrované v: WOS

2. [1.1] BOULECHFAR, R. - SAYAD, D. - KHENIOUI, Y. - MERADJI, H. - GHEMID, S. - KHENATA, R. - BIN-OMRAN, S. - BOUHEMADOU, A. - GOUMRI-SAID, Souraya. *Theoretical investigations of Zr-concentration influence on the thermodynamic, elastic, electronic, and structural stability of D022/L12-Al₃Ti*. In *EUROPEAN PHYSICAL JOURNAL B*, 2024, vol. 97, no. 1, art. no. 1. ISSN 1434-6028. Dostupné na: <https://doi.org/10.1140/epjb/s10051->

023-00643-7, Registrované v: WOS

3. [1.1] PANG, Yong - HUANG, Suxia - LI, Hezong - LIU, Tao - SUN, Wei. Elastic-plastic strain conversion of a thin-plate miniaturized tensile test based on crosshead measurement via an analytical method. In THEORETICAL AND APPLIED FRACTURE MECHANICS, 2024, vol. 133, no., art. no. 104532. ISSN 0167-8442. Dostupné na: <https://doi.org/10.1016/j.tafmec.2024.104532>, Registrované v: WOS

4. [1.1] XIAO, Faxin - RUAN, Zixiong - CHEN, Rui - YIN, Wei - FAN, Touwen. First-Principles Calculations on Relative Energetic Stability, Mechanical, and Thermal Properties of B2-AlRE (RE = Sc, Y, La-Lu) Phases. In COATINGS, 2024, vol. 14, no. 11, art. no. 1346. Dostupné na: <https://doi.org/10.3390/coatings14111346>, Registrované v: WOS

5. [1.1] YE, Tuo - LIN, Lan - RUAN, Zixiong - FAN, Touwen - WU, Yuanzhi - CHEN, Dongchu. The Influence of Substitutional Defects of Transition Metal Elements on the Stability and Thermal Properties of Al at Finite Temperatures: A First-Principles Study. In CRYSTALS, 2024, vol. 14, no. 1, art. no. 35. Dostupné na: <https://doi.org/10.3390/cryst14010035>, Registrované v: WOS

6. [1.2] AMGHAR, Inass - ZIATI, Meryem - BOUBEKRAOUI, Amina - EZ-ZAHRAOUI, Hamid. Comparative theoretical studies of BAs, AlAs, BBi and BSb compounds using density functional theory. In International Journal of Computational Materials Science and Engineering, 2024-01-01, pp. ISSN 20476841. Dostupné na: <https://doi.org/10.1142/S2047684124500131>, Registrované v: SCOPUS

ADCA371 JANCOVICI, B. - ŠAMAJ, Ladislav. Casimir force between two ideal-conductor walls revisited. In Europhysics Letters, 2005, vol. 72, no. 1, p. 35-41. (2004: 2.120 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0295-5075. Dostupné na: <https://doi.org/10.1209/epl/i2005-10201-5>

Citácie:

1. [1.1] DU, Guangle - DEAN, David S. - MIAO, Bing - PODGORNIK, Rudolf. Correlation Decoupling of Casimir Interaction in an Electrolyte Driven by External Electric Fields. In PHYSICAL REVIEW LETTERS, 2024, vol. 133, no. 23, art. no. 238002. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.238002>, Registrované v: WOS

2. [1.1] ESTESO, Victoria - FRUSTAGLIA, Diego - CARRETERO-PALACIOS, Sol - MIGUEZ, Hernan. Casimir-Lifshitz Optical Resonators: A New Platform for Exploring Physics at the Nanoscale. In ADVANCED PHYSICS RESEARCH, 2024, vol. 3, no. 2, art. no. 2300065. ISSN 2751-1200. Dostupné na: <https://doi.org/10.1002/apxr.202300065>, Registrované v: WOS

ADCA372 JANCOVICI, B. - ŠAMAJ, Ladislav. Screening of classical Casimir forces by electrolytes in semi-infinite geometries. In Journal of Statistical Mechanics, 2004, art. no. P08006. Dostupné na: <https://doi.org/10.1088/1742-5468/2004/08/P08006>

Citácie:

1. [1.1] BUDKOV, Yury A. - KALIKIN, Nikolai N. - BRANDYSHEV, Petr E. Thermomechanical approach to calculating mechanical stresses in inhomogeneous fluids and its applications to ionic fluids. In JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT, 2024, vol. 2024, no. 12, art. no. 123201. ISSN 1742-5468. Dostupné na: <https://doi.org/10.1088/1742-5468/ad930a>, Registrované v: WOS

2. [1.1] DU, Guangle - DEAN, David S. - MIAO, Bing - PODGORNIK, Rudolf. Correlation Decoupling of Casimir Interaction in an Electrolyte Driven by External Electric Fields. In PHYSICAL REVIEW LETTERS, 2024, vol. 133, no. 23, art. no. 238002. ISSN 0031-9007. Dostupné na:

- ADCA373 <https://doi.org/10.1103/PhysRevLett.133.238002>, *Registrované v: WOS*
JANDEL, Marián - MORHÁČ, Miroslav - KLIMAN, Ján - KRUPA, L. -
MATOUŠEK, Vladislav - HAMILTON, J.H. - RAMAYYA, A.V. Decomposition of
continuum gamma-ray spectra using synthesized response matrix. In Nuclear
Instruments and Methods in Physics Research A. Accelerators, Spectrometers,
Detectors and Associated Equipment, 2004, vol. 516, no. 1, pp. 172-183. (2003:
1.166 - IF, karentované - CCC). (2004 - Current Contents, WOS, SCOPUS). ISSN
0168-9002. Dostupné na: <https://doi.org/10.1016/j.nima.2003.07.047>
Citácie:
1. [1.1] *WRIGHT, T. - SMITH, A. G. - SOSNIN, N. V. - BENNETT, S. A. - DAVIES, P. J. - POPESCU, A. V. - RYAN, J. A. - SEKHAR, A. - WARREN, S. - ABERLE, O. - AMADUCCI, S. - ANDRZEJEWSKI, J. - AUDOUIN, L. - BACAK, M. - BALIBREA, J. - BARBAGALLO, M. - BECVAR, F. - BERTHOUMIEUX, E. - BILLOWES, J. - BOSNAR, D. - BROWN, A. - CAAMANO, M. - CALVINO, F. - CALVIANI, M. - CANO-OTT, D. - CARDELLA, R. - CASANOVAS, A. - CERUTTI, F. - CHEN, Y. H. - CHIAVERI, E. - COLONNA, N. - CORTES, G. - CORTES-GIRALDO, M. A. - COSENTINO, L. - DAMONE, L. A. - DIAKAKI, M. - DOMINGO-PARDO, C. - DRESSLER, R. - DUPONT, E. - DURAN, I. - FERNANDEZ-DOMINGUEZ, B. - FERRARI, A. - FERREIRA, P. - FINOCCHIARO, P. - FURMAN, V. - GOEBEL, K. - GARCIA, A. R. - GAWLIK-RAMIEGA, A. - GILARDONI, S. - GLODARIU, T. Measurement of the prompt fission γ -rays from slow neutron-induced fission of SUP235/SUPU with STEFF. In EUROPEAN PHYSICAL JOURNAL A, 2024, vol. 60, no. 3, art. no. 70. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01277-8>,
*Registrované v: WOS**
- ADCA374 JANOTOVÁ, Irena - HOŠKO, Jozef - ŠVEC, Peter Jr. - MAŤKO, Igor -
JANIČKOVIČ, Dušan - ŠVEC, Peter - GEMMING, T. - STOICA, M. The structure
of rapidly quenched Fe-Co-B-Si based systems and the influence of addition of Cu
and P. In Journal of Alloys and Compounds, 2014, vol. 615, p. S198-S202. (2013:
2.726 - IF, Q1 - JCR, 1.064 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current
Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na:
<https://doi.org/10.1016/j.jallcom.2013.12.044>
Citácie:
1. [1.1] *BAZLOV, Andrey I. - MILKOVA, Daria A. - ZANAEVA, Erzhena N. - STROCHKO, Ilia - TABACHKOVA, Natalia Yu. - INOUE, Akihisa. Formation, thermal stability and soft magnetic properties of Fe-Co-B-Si amorphous alloys with ultrahigh saturation magnetic induction of 2.0 T. In JOURNAL OF ALLOYS AND COMPOUNDS, 2024, vol. 1006, no., art. no. 176247. ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.176247>, *Registrované v: WOS**
- ADCA375 JELEMENSKÝ, Marek* - KOVÁCSHÁZI, Csenger* - FERENCZYOVÁ, Kristína -
HOFBAUEROVÁ, Monika, Benkovičová - KISS, Bernadett - PÁLLINGER, Éva -
KITTEL, Ágnes - SAYOUR, Viktor Nabil - GÖRBE, Anikó - PELYHE, Csilla -
HAMBALKÓ, Szabolcs - KINDERNAY, Lucia - BARANČÍK, Miroslav -
FERDINANDY, Péter - BARTEKOVÁ, Monika** - GIRICZ, Zoltán**. Helium
Conditioning Increases Cardiac Fibroblast Migration Which Effect Is Not
Propagated via Soluble Factors or Extracellular Vesicles. In International Journal of
Molecular Sciences, 2021, vol. 22, no. 19, art. no. 10504. (2020: 5.924 - IF, Q1 -
JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN
1422-0067. Dostupné na: <https://doi.org/10.3390/ijms221910504>
Citácie:
1. [1.1] *AWHIN, Ep - MOKE, Eg - EZEDOM, T. - NDUKA, Te - UMUKORO, Ek -*

EDUVIERE, At - ARIGHWRODE, O. - AVABORE, A. N. - ISIBOR, N. P. - IJENEBE, A. A Review on the Nobility and Medical Importance of Helium. In *Journal of Applied Sciences & Environmental Management*. ISSN 1119-8362, NOV 2024, vol. 28, no. 11. Dostupné na: <https://doi.org/10.4314/jasem.v28i11.18>, Registrované v: WOS

2. [1.1] KABIOLSKIY, I. A. - SIMONENKO, S. D. - SARYCHEVA, N. U. - DUBYNIN, V. A. Therapeutic Effects of Noble Gases. In *JOURNAL OF EVOLUTIONARY BIOCHEMISTRY AND PHYSIOLOGY*. ISSN 0022-0930, NOV 2024, vol. 60, no. 6, p. 2135-2151. Dostupné na: <https://doi.org/10.1134/S0022093024060012>, Registrované v: WOS

3. [1.1] PAGLIARO, Pasquale - WEBER, Nina C. - FEMMINO, Saveria - ALLOATTI, Giuseppe - PENNA, Claudia. Gasotransmitters and noble gases in cardioprotection: unraveling molecular pathways for future therapeutic strategies. In *BASIC RESEARCH IN CARDIOLOGY*. ISSN 0300-8428, AUG 2024, vol. 119, no. 4, p. 509-544. Dostupné na: <https://doi.org/10.1007/s00395-024-01061-1>, Registrované v: WOS

ADCA376 JERGEL, Matej - CHESKO, I. - HALAHOVETS, Y. - ŠIFFALOVÍČ, Peter - MAŤKO, Igor - SENDERÁK, Rudolf - PROTSSENKO, S. - MAJKOVÁ, Eva - LUBY, Štefan. Annealing behaviour of structural and magnetic properties of evaporated Co thin films. In *Journal of Physics D: Applied Physics*, 2009, vol. 42, no. 13, art. no. 135406. (2008: 2.104 - IF, Q2 - JCR, 1.427 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, SCOPUS). ISSN 0022-3727. Dostupné na: <https://doi.org/10.1088/0022-3727/42/13/135406>

Citácie:

1. [1.2] SHARMA, A. - TRIPATHI, J. Influence of interface alloy formation on the magnetic and structural properties of Co/Si (100) thin films. In *Interactions*, 2024-12-01, 245, 1, pp. Dostupné na: <https://doi.org/10.1007/s10751-024-02005-w>, Registrované v: SCOPUS

ADCA377 JERGEL, Matej - MIKULIK, P. - MAJKOVÁ, Eva - SENDERÁK, Rudolf - PINČÍK, Emil - BRUNEL, M. - HUDEK, Peter - KOSTIČ, Ivan - KONEČNÍKOVÁ, Anna. Structural characterization of lamellar multilayer gratings by X-ray reflectivity and scanning electron. In *Journal of Physics D*, 1999, vol. 32, no. 10A, p. A220-A223. (1998: 1.114 - IF, karentované - CCC). (1999 - Current Contents, SCOPUS).

Citácie:

1. [1.1] LEE, Juheon - SON, Heeju - HONG, Seung Jae - HUGONNET, Herve - BANG, Joona - LEE, Seungwoo - PARK, Yongkeun. Visualizing 3D Anisotropic Molecular Orientation in Polarization Holographic Optical Elements via Dielectric Tensor Tomography. In *ADVANCED OPTICAL MATERIALS*, 2024, vol. 12, no. 11. ISSN 2195-1071. Dostupné na:

<https://doi.org/10.1002/adom.202302346>, Registrované v: WOS

ADCA378 JEX, Igor - DROBNÝ, Gabriel. SU(1,1) and SU(2) Squeezing in Trilinear Optical Processes. In *Journal of Modern Optics*, 1992, vol. 39, no. 5, p. 1043-1053. ISSN 0950-0340. Dostupné na: <https://doi.org/10.1080/09500349214551061>

Citácie:

1. [1.1] MAHMOUDI, Payman - RITBOON, Atirach - FILIP, Radim. Optimal quantum sensing of the nonlinear bosonic interactions using Fock states. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 4, art. no. 043215. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.043215>, Registrované v: WOS

ADCA379 JIRASKOVA, Y.** - PIZUROVA, N. - TITOV, A. - JANIČKOVIČ, Dušan - FRIAK, M. Phase separation in Fe-Ti-Al alloy - Structural, magnetic, and Mössbauer study. In *Journal of Magnetism and Magnetic Materials*, 2018, vol. 468, p. 91-99. (2017:

3.046 - IF, Q2 - JCR, 0.786 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2018.07.065>

Citácie:

1. [1.2] YOUNES, Abderrahmane - METIDJI, Nadia - DILMI, Nacer - AMRAOUI, Rachid - ABADA, Abderahim. *Effect of Crystallite Size on Magnetic Properties of Nanostructured FeAlTiBZr Alloy*. In *Eurasia Proceedings of Science Technology Engineering and Mathematics*, 2024-01-01, 32, pp. 80-85. ISBN [9786256959569]. Dostupné na: <https://doi.org/10.55549/epstem.1598053>, Registrované v: SCOPUS

ADCA380 JIRÁSKOVÁ, Yvonna - BURŠÍK, Jiří - JANIČKOVIČ, Dušan - ŽIVOTSKÝ, Ondřej**. Influence of preparation technology on microstructural and magnetic properties of Fe₂MnSi and Fe₂MnAl Heusler alloys. In *Materials*, 2019, vol. 12, no. 5, art. no. 710. (2018: 2.972 - IF, Q2 - JCR, 0.686 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1996-1944. Dostupné na: <https://doi.org/10.3390/ma12050710>

Citácie:

1. [1.1] CZARNACKA, K. - JASKOŁOWSKA, P. - OLESZAK, D. - PEKALA, M. - JARTYCH, E. *Mossbauer Spectroscopy Studies of Mechanosynthesized Fe₂CrSi and Co₂FeAl Heusler Alloys*. In *ACTA PHYSICA POLONICA A : 13th All-Polish Seminar on Mossbauer Spectroscopy (OSSM)*, 2024, vol. 146, no. 3. ISSN 0587-4246. Dostupné na: <https://doi.org/10.12693/APhysPolA.146.227>, Registrované v: WOS

2. [1.2] SHARMA, Preeti - KANT, Rajni - BHARDWAJ, Purvee. *Heusler Alloys: Structural, Electronic, Magnetic, Mechanical, and Thermoelectric Features-A Review*. In *International Journal of Advanced Science and Engineering*, 2024-12-01, 11, 2, pp. 4044-4054. Dostupné na: <https://doi.org/10.29294/IJASE.11.2.2024.4044-4054>, Registrované v: SCOPUS

ADCA381 JORDAN, S.P. - KOBAYASHI, H. - NAGAJ, Daniel - NISHIMURA, H. Achieving perfect completeness in classical-witness quantum Merlin-Arthur proof. In *Quantum Information and Computation*, 2012, vol. 12, no. 5-6, p. 461-471. (2011: 1.659 - IF, Q1 - JCR, 1.014 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1533-7146.

Citácie:

1. [1.1] DELAVENNE, Hugo - LE GALL, Franois. *QUANTUM STATE SYNTHESIS: RELATION WITH DECISION COMPLEXITY CLASSES AND IMPOSSIBILITY OF SYNTHESIS ERROR REDUCTION*. In *QUANTUM INFORMATION & COMPUTATION*, 2024, vol. 24, no. 9-10, pp. 754-765. ISSN 1533-7146., Registrované v: WOS

ADCA382 KALANINOVÁ, Z. - ANTALIC, S. - ANDREYEV, A.N. - HESSBERGER, F.P. - ACKERMANN, D. - ANDEL, B. - BIANCO, L. - HOFMANN, S. - HUYSE, M. - KINDLER, B. - LOMMEL, B. - MANN, R. - PAGE, R.D. - SAPPLE, P.J. - THOMSON, J. - VAN DUPPEN, P. - VENHART, Martin. Decay of (201-20)3Ra and Fr200-202. In *Physical Review C*, 2014, vol. 89, no. 5, art. no. 054312. (2013: 3.881 - IF, Q1 - JCR, 2.584 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.89.054312>

Citácie:

1. [1.1] KONDEV, F. G. *Recommended Nuclear Structure and Decay Data for A=202 Isobars*. In *NUCLEAR DATA SHEETS*, 2024, vol. 196, no., pp. 342-575. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.06.004>, Registrované v: WOS

2. [1.1] WANG, J. G. - GAN, Z. G. - ZHANG, Z. Y. - HUANG, M. H. - MA, L. - ZHANG, M. M. - YANG, H. B. - YANG, C. L. - QIANG, Y. H. - HUANG, X. Y. - ZHAO, Z. - XU, S. Y. - LI, Z. C. - CHEN, L. X. - SUN, L. C. - ZHOU, H. - ZHANG, X. - WU, X. L. - TIAN, Y. L. - WANG, Y. S. - WANG, J. Y. - HUANG, W. X. - LIU, M. L. - LU, Z. W. - HE, Y. - REN, Z. Z. - ZHOU, S. G. - ZHOU, X. H. - XU, H. S. - UTYONKOV, V. K. - VOINOV, A. A. - TSYGANOV, Yu. S. - POLYAKOV, A. N. α -decay properties of new neutron-deficient isotope SUP203/SUPAc. In *PHYSICS LETTERS B*, 2024, vol. 850, no., art. no. 138503. ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2024.138503>, Registrované v: WOS
3. [1.1] ZHANG, W. Q. - YU, X. H. - LIU, Z. - ANDREYEV, A. N. - QI, C. - DONG, J. M. - FU, X. Y. - HUANG, H. - LI, J. G. - LI, X. H. - UESAKA, T. - ZHOU, X. H. Prediction for proton-emitting candidate nuclei above the Z=82 shell closure. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 4, art. no. 044301. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.044301>, Registrované v: WOS
4. [1.1] ZHOU, LiLin - CAI, Jun-Jun - LI, Lu-Qi - WANG, Zi-Long - ZHU, Rui - ZHANG, Xiao-Ye - ZHANG, Xin-Rui - ZHU, Long - ZHANG, Gen - ZHANG, Feng-Shou. Fusion enhancement in the collisions with ^{44}Ca beams and the production of neutron-deficient $^{245-250}\text{Lr}$ isotopes. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 2, art. no. 024606. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.024606>, Registrované v: WOS

ADCA383 KALINAY, Pavol - PERCUS, Jerome K. Exact dimensional reduction of linear dynamics: application to confined diffusion. In *Journal of Statistical Physics*, 2006, vol. 123, no. 5, p. 1059-1069. (2005: 1.729 - IF, Q2 - JCR, 1.372 - SJR, Q1 - SJR). ISSN 0022-4715. Dostupné na: <https://doi.org/10.1007/s10955-006-9081-3>

Citácie:

1. [1.1] ALI, Syed Yunus - BAURI, Prashanta - MONDAL, Debasish. Optimizing Work Extraction in the Presence of an Entropic Potential: An Entropic Stochastic Resonance. In *JOURNAL OF PHYSICAL CHEMISTRY B*, 2024, vol. 128, no. 16, pp. 3824-3832. ISSN 1520-6106. Dostupné na: <https://doi.org/10.1021/acs.jpcc.3c08066>, Registrované v: WOS

ADCA384 KALINAY, Pavol - PERCUS, J.K. Corrections to the Fick-Jacobs equation. In *Physical Review E*, 2006, vol. 74, no. 4, art. no. 041203. (2005: 2.418 - IF, Q1 - JCR, 1.204 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.74.041203>

Citácie:

1. [1.1] ALI, Syed Yunus - BAURI, Prashanta - MONDAL, Debasish. Optimizing Work Extraction in the Presence of an Entropic Potential: An Entropic Stochastic Resonance. In *JOURNAL OF PHYSICAL CHEMISTRY B*, 2024, vol. 128, no. 16, pp. 3824-3832. ISSN 1520-6106. Dostupné na: <https://doi.org/10.1021/acs.jpcc.3c08066>, Registrované v: WOS
2. [1.1] BREY, J. Javier - DE SORIA, M. I. Garcia - MAYNAR, P. Kinetic theory of diffusion in a channel of varying cross section. In *MOLECULAR PHYSICS*, 2024, vol. 122, no. 21-22. ISSN 0026-8976. Dostupné na: <https://doi.org/10.1080/00268976.2024.2378116>, Registrované v: WOS
3. [1.1] CHACON-ACOSTA, Guillermo - NUNEZ-LOPEZ, Mayra. Entropy Production in Reaction-Diffusion Systems Confined in Narrow Channels. In *ENTROPY*, 2024, vol. 26, no. 6, art. no. 463. Dostupné na: <https://doi.org/10.3390/e26060463>, Registrované v: WOS
4. [1.1] FAN, Wenyue - HU, Meng - FENG, Lukun - LUO, Xiao - LU, Yao - BAO, Jingdong. In biased and soft-walled channels: Insights into transport phenomena

and damped modulation. In *JOURNAL OF CHEMICAL PHYSICS*, 2024, vol. 160, no. 16, art. no. 164109. ISSN 0021-9606. Dostupné na:

<https://doi.org/10.1063/5.0195202>, Registrované v: WOS

5. [1.1] KHATRI, Narender. Mass-Based Separation of Active Brownian Particles in an Asymmetric Channel. In *FLUCTUATION AND NOISE LETTERS*, 2024, vol. 23, no. 05, art. no. 2450047. ISSN 0219-4775. Dostupné na:

<https://doi.org/10.1142/S0219477524500470>, Registrované v: WOS

6. [1.1] VOCE, Nicole - STEVENSON, Paul. Experimentally Probing the Effect of Confinement Geometry on Lipid Diffusion. In *JOURNAL OF PHYSICAL CHEMISTRY B*, 2024, vol. 128, no. 18, pp. 4404-4413. ISSN 1520-6106.

Dostupné na: <https://doi.org/10.1021/acs.jpcb.3c07388>, Registrované v: WOS

7. [1.2] DAGDUG, Leonardo - PEÑA, Jason - POMPA-GARCÍA, Ivan. Diffusion under confinement: A journey through counterintuition. In *Diffusion Under Confinement A Journey Through Counterintuition*, 2024-02-01, pp. 1-759. ISBN [9783031464744, 9783031464751]. Dostupné na: <https://doi.org/10.1007/978-3-031-46475-1>, Registrované v: SCOPUS

8. [1.2] GREBENKOV, Denis - SKVORTSOV, Alexei. Boundary Homogenization for Target Search Problems. In *Target Search Problems*, 2024-01-01, pp. 247-279. ISBN [9783031678011, 9783031678028]. Dostupné na:

https://doi.org/10.1007/978-3-031-67802-8_, Registrované v: SCOPUS

9. [1.2] POMPA-GARCÍA, Ivan - METZLER, Ralf - DAGDUG, Leonardo. Two-dimensional Diffusion with a Transverse Gravitational Force: Analytical, Numerical and Simulations Results. In *Journal of Physics Conference Series*, 2024-01-01, 2839, 1, pp. ISSN 17426588. Dostupné na:

<https://doi.org/10.1088/1742-6596/2839/1/012004>, Registrované v: SCOPUS

ADCA385

KALINAY, Pavol - PERCUS, J.K. Approximations of the generalized Fick-Jacobs equation. In *Physical Review E*, 2008, vol. 78, no. 2, art. no. 021103. (2007: 2.483 - IF, Q1 - JCR, 1.615 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na:

<https://doi.org/10.1103/PhysRevE.78.021103>

Citácie:

1. [1.1] ANTUNES, G. C. - JIMENEZ-SANCHEZ, M. - MALGARETTI, P. -

BACHMANN, J. - HARTING, J. The interplay of shape and catalyst distribution in the yield of compressible flow microreactors. In *JOURNAL OF CHEMICAL PHYSICS*, 2024, vol. 161, no. 12, art. no. 124708. ISSN 0021-9606. Dostupné na:

<https://doi.org/10.1063/5.0231360>, Registrované v: WOS

2. [1.1] PENG, Zhiwei. Macrotransport of active particles in periodic channels and fields: Rectification and dispersion. In *JOURNAL OF CHEMICAL PHYSICS*, 2024, vol. 161, no. 15, art. no. 154101. ISSN 0021-9606. Dostupné na:

<https://doi.org/10.1063/5.0232614>, Registrované v: WOS

3. [1.2] GREBENKOV, Denis - SKVORTSOV, Alexei. Boundary Homogenization for Target Search Problems. In *Target Search Problems*, 2024-01-01, pp. 247-279. ISBN [9783031678011, 9783031678028]. Dostupné na:

https://doi.org/10.1007/978-3-031-67802-8_, Registrované v: SCOPUS

ADCA386

KALINAY, Pavol - PERCUS, J.K. Projection of two-dimensional diffusion in a narrow channel onto the longitudinal dimension. In *Journal of Chemical Physics*, 2005, vol. 122, no. 20, art. no. 204701. (2004: 3.105 - IF, karentované - CCC). (2005 - Current Contents, WOS, SCOPUS). ISSN 0021-9606. Dostupné na:

<https://doi.org/10.1063/1.1899150>

Citácie:

1. [1.1] ANTUNES, G. C. - JIMENEZ-SANCHEZ, M. - MALGARETTI, P. -

BACHMANN, J. - HARTING, J. The interplay of shape and catalyst distribution

- in the yield of compressible flow microreactors. In *JOURNAL OF CHEMICAL PHYSICS*, 2024, vol. 161, no. 12, art. no. 124708. ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/5.0231360>, Registrované v: WOS
2. [1.1] BREY, J. Javier - DE SORIA, M. I. Garcia - MAYNAR, P. Kinetic theory of diffusion in a channel of varying cross section. In *MOLECULAR PHYSICS*, 2024, vol. 122, no. 21-22. ISSN 0026-8976. Dostupné na: <https://doi.org/10.1080/00268976.2024.2378116>, Registrované v: WOS
3. [1.1] CHACON-ACOSTA, Guillermo - NUNEZ-LOPEZ, Mayra. Entropy Production in Reaction-Diffusion Systems Confined in Narrow Channels. In *ENTROPY*, 2024, vol. 26, no. 6, art. no. 463. Dostupné na: <https://doi.org/10.3390/e26060463>, Registrované v: WOS
4. [1.1] FAN, Wenyue - HU, Meng - FENG, Lukun - LUO, Xiao - LU, Yao - BAO, Jingdong. In biased and soft-walled channels: Insights into transport phenomena and damped modulation. In *JOURNAL OF CHEMICAL PHYSICS*, 2024, vol. 160, no. 16, art. no. 164109. ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/5.0195202>, Registrované v: WOS
5. [1.1] PENG, Zhiwei. Macrotransport of active particles in periodic channels and fields: Rectification and dispersion. In *JOURNAL OF CHEMICAL PHYSICS*, 2024, vol. 161, no. 15, art. no. 154101. ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/5.0232614>, Registrované v: WOS
6. [1.1] WANG, Honggang - ZHU, Xiaokai - ZHAO, Zhaoyang - WANG, Xinsheng - QIAN, Ziyue - JIAO, Liying - WANG, Kangkang - LI, You - QI, Jun-jie - ASIF, Muhammad - ZHENG, Qiang - XIE, Liming. In Situ Imaging of Two-Dimensional Crystal Growth Using a Heat-Resistant Optical Microscope. In *NANO LETTERS*, 2024, vol. 24, no. 18, pp. 5498-5505. ISSN 1530-6984. Dostupné na: <https://doi.org/10.1021/acs.nanolett.4c00620>, Registrované v: WOS
7. [1.2] DAGDUG, Leonardo - PEÑA, Jason - POMPA-GARCÍA, Ivan. Diffusion under confinement: A journey through counterintuition. In *Diffusion Under Confinement A Journey Through Counterintuition*, 2024-02-01, pp. 1-759. ISBN [9783031464744, 9783031464751]. Dostupné na: <https://doi.org/10.1007/978-3-031-46475-1>, Registrované v: SCOPUS
8. [1.2] POMPA-GARCÍA, Ivan - METZLER, Ralf - DAGDUG, Leonardo. Two-dimensional Diffusion with a Transverse Gravitational Force: Analytical, Numerical and Simulations Results. In *Journal of Physics Conference Series*, 2024-01-01, 2839, 1, pp. ISSN 17426588. Dostupné na: <https://doi.org/10.1088/1742-6596/2839/1/012004>, Registrované v: SCOPUS
9. [1.2] POSTNIKOV, Eugene B. - SOKOLOV, Igor M. Generalized Langevin subdiffusion in channels: The bath always wins. In *Physical Review E*, 2024-09-01, 110, 3, pp. ISSN 24700045. Dostupné na: <https://doi.org/10.1103/PhysRevE.110.034104>, Registrované v: SCOPUS

ADCA387

KALINAY, Pavol - MARKOŠ, Peter - ŠAMAJ, Ladislav - TRAVĚNEC, Igor. The Sixth-Moment Sum Rule for the Pair Correlations of the Two-Dimensional One-Component Plasma: Exact Result. In *Journal of Statistical Physics*, 2000, vol. 98, no. 3-4, p. 639-666. (1999: 1.192 - IF). ISSN 0022-4715.

Citácie:

1. [1.1] HERVIOU, Loic - MILA, Frederic. Numerical investigation of the structure factors of the Read-Rezayi series. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 4, art. no. 045143. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.045143>, Registrované v: WOS
2. [1.1] KUMAR, Prashant - HALDANE, Frederick Duncan Michael. A numerical study of bounds in the correlations of fractional quantum Hall states. In *SCIPOST PHYSICS*, 2024, vol. 16, no. 5, art. no. 117. ISSN 2542-4653. Dostupné na:

<https://doi.org/10.21468/SciPostPhys.16.5.117>, Registrované v: WOS
3. [1.1] LIU, Yang - ZHAO, Tongzhou - XIANG, T. Resolving geometric excitations of fractional quantum Hall states. In PHYSICAL REVIEW B, 2024, vol. 110, no. 19, art. no. 195137. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.195137>, Registrované v: WOS

ADCA388 KALINAY, Pavol - PERCUS, J.K. Extended Fick-Jacobs equation: Variational approach. In Physical Review E, 2005, vol. 72, no. 6, art. no. 061203. (2004: 2.352 - IF, karentované - CCC). (2005 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.72.061203>

Citácie:

1. [1.1] ALI, Syed Yunus - BAURI, Prashanta - MONDAL, Debasish. Optimizing Work Extraction in the Presence of an Entropic Potential: An Entropic Stochastic Resonance. In JOURNAL OF PHYSICAL CHEMISTRY B, 2024, vol. 128, no. 16, pp. 3824-3832. ISSN 1520-6106. Dostupné na:

<https://doi.org/10.1021/acs.jpcc.3c08066>, Registrované v: WOS

2. [1.2] GREBENKOV, Denis - SKVORTSOV, Alexei. Boundary Homogenization for Target Search Problems. In Target Search Problems, 2024-01-01, pp. 247-279. ISBN [9783031678011, 9783031678028]. Dostupné na:

https://doi.org/10.1007/978-3-031-67802-8_, Registrované v: SCOPUS

ADCA389 KALINAY, Pavol** - SLANINA, František. Dichotomic ratchet in a two-dimensional corrugated channel. In Physical Review E, 2021, vol. 104, no. 6, art. no. 064115. (2020: 2.529 - IF, Q1 - JCR, 0.896 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.104.064115>

Citácie:

1. [1.1] ALI, Syed Yunus - BAURI, Prashanta - MONDAL, Debasish. Optimizing Work Extraction in the Presence of an Entropic Potential: An Entropic Stochastic Resonance. In JOURNAL OF PHYSICAL CHEMISTRY B, 2024, vol. 128, no. 16, pp. 3824-3832. ISSN 1520-6106. Dostupné na:

<https://doi.org/10.1021/acs.jpcc.3c08066>, Registrované v: WOS

2. [1.2] C. ANTUNES, G. - JIMÉNEZ-SÁNCHEZ, M. - MALGARETTI, P. - BACHMANN, J. - HARTING, J. The interplay of shape and catalyst distribution in the yield of compressible flow microreactors. In Journal of Chemical Physics, 2024-09-28, 161, 12, pp. ISSN 00219606. Dostupné na:

<https://doi.org/10.1063/5.0231360>, Registrované v: SCOPUS

ADCA390 KALINAY, Pavol**. Transverse dichotomic ratchet in a two-dimensional corrugated channel. In Physical Review E, 2022, vol. 106, no. 4, art. no. 044126. (2021: 2.707 - IF, Q1 - JCR, 0.847 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.106.044126>

Citácie:

1. [1.1] ALI, Syed Yunus - BAURI, Prashanta - MONDAL, Debasish. Optimizing Work Extraction in the Presence of an Entropic Potential: An Entropic Stochastic Resonance. In JOURNAL OF PHYSICAL CHEMISTRY B, 2024, vol. 128, no. 16, pp. 3824-3832. ISSN 1520-6106. Dostupné na:

<https://doi.org/10.1021/acs.jpcc.3c08066>, Registrované v: WOS

2. [1.1] ANTUNES, G. C. - JIMENEZ-SANCHEZ, M. - MALGARETTI, P. - BACHMANN, J. - HARTING, J. The interplay of shape and catalyst distribution in the yield of compressible flow microreactors. In JOURNAL OF CHEMICAL PHYSICS, 2024, vol. 161, no. 12, art. no. 124708. ISSN 0021-9606. Dostupné na:

<https://doi.org/10.1063/5.0231360>, Registrované v: WOS

ADCA391 KALINAY, Pavol**. Nonscaling calculation of the effective diffusion coefficient in periodic channels. In Journal of Chemical Physics, 2017, vol. 146, no. 3, art. no.

034109. (2016: 2.965 - IF, Q2 - JCR, 1.486 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/1.4974090>

Citácie:

1. [1.1] ALI, Syed Yunus - BAURI, Prashanta - MONDAL, Debasish. Optimizing Work Extraction in the Presence of an Entropic Potential: An Entropic Stochastic Resonance. In *JOURNAL OF PHYSICAL CHEMISTRY B*, 2024, vol. 128, no. 16, pp. 3824-3832. ISSN 1520-6106. Dostupné na:

<https://doi.org/10.1021/acs.jpcc.3c08066>, Registrované v: WOS

ADCA392 KALINAY, Pavol - SLANINA, Franišek. Feynman-Smoluchowski ratchet in an effective one-dimensional picture. In *Physical Review E*, 2018, vol. 98, no. 4, art. no. 042141. (2017: 2.284 - IF, Q1 - JCR, 0.979 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.98.042141>

Citácie:

1. [1.1] ALI, Syed Yunus - BAURI, Prashanta - MONDAL, Debasish. Optimizing Work Extraction in the Presence of an Entropic Potential: An Entropic Stochastic Resonance. In *JOURNAL OF PHYSICAL CHEMISTRY B*, 2024, vol. 128, no. 16, pp. 3824-3832. ISSN 1520-6106. Dostupné na:

<https://doi.org/10.1021/acs.jpcc.3c08066>, Registrované v: WOS

2. [1.1] HASHEMI, Aref - GILMAN, Edward - KHAIR, Aditya. A multiple-timing analysis of temporal ratcheting. In *EUROPEAN PHYSICAL JOURNAL E*, 2024, vol. 47, no. 4, art. no. 28. ISSN 1292-8941. Dostupné na:

<https://doi.org/10.1140/epje/s10189-024-00421-y>, Registrované v: WOS

ADCA393 KALINAY, Pavol - PERCUS, Jerome K. Phase space reduction of the one-dimensional Fokker-Planck (Kramers) equation. In *Journal of Statistical Physics*, 2012, vol. 148, no. 6, p. 1135-1155. (2011: 1.397 - IF, Q2 - JCR, 1.011 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 0022-4715. Dostupné na: <https://doi.org/10.1007/s10955-012-0570-2>

Citácie:

1. [1.1] COLBERG, Margarita - SCHOFIELD, Jeremy. Diffusive dynamics of a model protein chain in solution. In *JOURNAL OF CHEMICAL PHYSICS*, 2024, vol. 160, no. 7, art. no. 075101. ISSN 0021-9606. Dostupné na:

<https://doi.org/10.1063/5.0182607>, Registrované v: WOS

ADCA394 KALINAY, Pavol. Generalized method calculating the effective diffusion coefficient in periodic channels. In *Journal of Chemical Physics*, 2015, vol. 142, no. 1, art. no. 014106. (2014: 2.952 - IF, Q1 - JCR, 1.446 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/1.4905079>

Citácie:

1. [1.1] ALI, Syed Yunus - BAURI, Prashanta - MONDAL, Debasish. Optimizing Work Extraction in the Presence of an Entropic Potential: An Entropic Stochastic Resonance. In *JOURNAL OF PHYSICAL CHEMISTRY B*, 2024, vol. 128, no. 16, pp. 3824-3832. ISSN 1520-6106. Dostupné na:

<https://doi.org/10.1021/acs.jpcc.3c08066>, Registrované v: WOS

ADCA395 KALINAY, Pavol. One-dimensional description of driven diffusion in periodic channels. In *Physical Review E*, 2017, vol. 96, no. 4, art. no. 042157. (2016: 2.366 - IF, Q1 - JCR, 1.271 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.96.042157>

Citácie:

1. [1.1] ALI, Syed Yunus - BAURI, Prashanta - MONDAL, Debasish. Optimizing

Work Extraction in the Presence of an Entropic Potential: An Entropic Stochastic Resonance. In JOURNAL OF PHYSICAL CHEMISTRY B, 2024, vol. 128, no. 16, pp. 3824-3832. ISSN 1520-6106. Dostupné na:

<https://doi.org/10.1021/acs.jpch.3c08066>, Registrované v: WOS

ADCA396

KALINAY, Pavol - SLANINA, František. Ratchet effect in an asymmetric two-dimensional system of Janus particles. In *Physical Review E*, 2023, vol. 108, no. 1, art. no. 014606. (2022: 2.4 - IF, Q1 - JCR, 0.819 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.108.014606>

Citácie:

1. [1.1] **ALI, Syed Yunus** - **BAURI, Prashanta** - **MONDAL, Debasish**. Optimizing Work Extraction in the Presence of an Entropic Potential: An Entropic Stochastic Resonance. In *JOURNAL OF PHYSICAL CHEMISTRY B*, 2024, vol. 128, no. 16, pp. 3824-3832. ISSN 1520-6106. Dostupné na:

<https://doi.org/10.1021/acs.jpch.3c08066>, Registrované v: WOS

2. [1.1] **LIU, Wan-hua** - **ZHU, Wei-jing** - **AI, Bao-quan**. Collective motion of pulsating active particles in confined structures. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 2, art. no. 023017. ISSN 1367-2630. Dostupné na:

<https://doi.org/10.1088/1367-2630/ad23a5>, Registrované v: WOS

ADCA397

KALLUNKATHARIYIL, J. - **SULIGNANO, B.** - **GREENLEES, P.T.** - **KHUYAGBAATAR, J.** - **THEISEN, Ch.** - **AURANEN, K.** - **BADRAN, H.** - **BISSO, F.** - **BRIONNET, P.** - **BRISELET, R.** - **DROUART, A.** - **FAVIER, Z.** - **GOIGOUX, T.** - **GRAHN, T.** - **HAUSCHILD, K.** - **HERZÁŇ, Andrej** - **HEßBERGER, F.P.** - **JAKOBSSON, U.** - **JULIN, R.** - **JUUTINEN, S.** - **KONKI, J.** - **LEINO, M.** - **LIGHTFOOT, A.** - **PAKARINEN, J.** - **PAPADAKIS, P.** - **PARTANEN, J.** - **PEURA, P.** - **RAHKILA, P.** - **REZYNKINA, K.** - **RUOTSALAINEN, P.** - **SANDZELIUS, M.** - **SAREN, J.** - **SCHOLEY, C.** - **SICILIANO, M.** - **SORRI, J.** - **STOLZE, S.** - **SVIRIKHIN, A.I.** - **UUSITALO, J.** - **VANDEBROUCK, M.** - **WARD, A.** - **WRAITH, C.** - **ZIELIŃSKA, M.** Stability of the heaviest elements: K isomer in No-250. In *Physical Review C*, 2020, vol. 101, no. 1, art. no. 011301R. (2019: 2.988 - IF, Q2 - JCR, 1.270 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.101.011301>

Citácie:

1. [1.1] **ACKERMANN, D.** - **ANTALIC, S.** - **HESSBERGER, F. P.** Isomers in superheavy nuclei. In *EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS*, 2024, vol. 233, no. 5, pp. 1017-1036. ISSN 1951-6355. Dostupné na:

<https://doi.org/10.1140/epjs/s11734-024-01150-1>, Registrované v: WOS

2. [1.1] **CLARK, R. M.** Hindrances to the alpha decay and fission of high-K isomers. In *EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS*, 2024, vol. 233, no. 5, pp. 1007-1015. ISSN 1951-6355. Dostupné na:

<https://doi.org/10.1140/epjs/s11734-024-01138-x>, Registrované v: WOS

3. [1.1] **KHUYAGBAATAR, J.** Ternary fission with the emission of long-range α particles in fission of the heaviest nuclei. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 1, art. no. 014311. ISSN 2469-9985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.110.014311>, Registrované v: WOS

4. [1.1] **MINATO, Futoshi** - **IWAMOTO, Osamu**. Fission fragment yields of SUP235/SUPU(*n*th, *f*) evaluated with the CCONE code system. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 5, art. no. 054311. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.054311>, Registrované v: WOS

5. [1.1] **MINKOV, N.** - **BONNEAU, L.** - **QUENTIN, P.** - **BARTEL, J.** - **MOLIQUE, H.** - **KOH, Meng-Hock**. K-isomeric states in the isotopic and isotonic chains of

SUP178/SUPHf. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 6, art. no. 064315. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.064315>, Registrované v: WOS

6. [1.1] MUKHIN, R. S. - ISAEV, A. V. - ANDREEV, A. V. - CHELNOKOV, M. L. - CHEPIGIN, V. I. - DEVARAJA, H. M. - IZOSIMOV, I. N. - KUZNETSOVA, A. A. - MALYSHEV, O. N. - POPEKO, A. G. - POPOV, Yu. A. - RAHMATINEJAD, A. - SAILAUBEKOV, B. - SHNEIDMAN, T. M. - SOKOL, E. A. - SVIRIKHIN, A. I. - TEZEKBAYEVA, M. S. - BYCHKOV, M. A. - YEREMIN, A. V. - DORVAUX, O. - GALL, B. - KESSACI, K. - HAUSCHILD, K. - LOPEZ-MARTENS, A. Prompt neutron emission in SUP250/SUPNo spontaneous fission associated with ground and isomeric state decays. In *CHINESE PHYSICS C*, 2024, vol. 48, no. 6, art. no. 064002. ISSN 1674-1137. Dostupné na:

<https://doi.org/10.1088/1674-1137/ad361a>, Registrované v: WOS

7. [1.1] ROGOV, I. S. - ADAMIAN, G. G. - ANTONENKO, N. V. Is there an abrupt fall of spontaneous fission half-lives in SUP248/SUPNo and SUP252/SUPRf? In *EUROPEAN PHYSICAL JOURNAL A*, 2024, vol. 60, no. 8, art. no. 164. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01382-8>, Registrované v: WOS

8. [1.1] ROGOV, I. S. - ADAMIAN, G. G. - V. ANTONENKO, N. Spontaneous fission and α decay from K-isomeric states within a cluster approach. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 1, art. no. 014606. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.014606>, Registrované v: WOS

9. [1.2] KESSACI, K. - GALL, B. J.P. - DORVAUX, O. - FORGE, M. - LOPEZ-MARTENS, A. - CHAKMA, R. - HAUSCHILD, K. - CHELNOKOV, M. L. - CHEPIGIN, V. I. - ISAEV, A. V. - KUZNETSOVA, A. A. - MALYSHEV, O. N. - MUKHIN, R. - PIOT, J. - POPEKO, A. G. - POPOV, Yu A. - SOKOL, E. A. - SVIRIKHIN, A. I. - YEREMIN, A. V. Cascade of high- K isomers in No 102255 153. In *Physical Review C*, 2024-11-01, 110, 5, pp. ISSN 24699985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.054310>, Registrované v: SCOPUS

ADCA398

KÁLOSI, Anna - DEMYDENKO, Maksym - BODIK, Michal - HAGARA, Jakub - KOTLÁR, Mário - KOSTIUK, Dmytro - HALAHOVETS, Yuriy - VÉGSÖ, Karol - ROLDAN, Alicia Marin - MAURYA, Gulab Singh - ANGUS, Michal - VEIS, Pavel - JERGEL, Matej - MAJKOVÁ, Eva - ŠIFFALOVIČ, Peter**. Tailored Langmuir-Schaefer Deposition of Few-Layer MoS₂ Nanosheet Films for Electronic Applications. In *Langmuir*, 2019, vol. 35, no. 30, p. 9802-9808. (2018: 3.683 - IF, Q2 - JCR, 1.209 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.9b01000>

Citácie:

1. [1.1] MORABITO, Floriana - SYNNATSCHKE, Kevin - MEHEW, Jake Dudley - VARGHESE, Sebin - SAYERS, Charles James - FOLPINI, Giulia - PETROZZA, Annamaria - CERULLO, Giulio - TIELROOIJ, Klaas-Jan - COLEMAN, Jonathan - NICOLOSI, Valeria - GADERMAIER, Christoph. Long lived photogenerated charge carriers in few-layer transition metal dichalcogenides obtained from liquid phase exfoliation. In *NANOSCALE ADVANCES*, 2024, vol. 6, no. 4. ISSN 2516-0230. Dostupné na: <https://doi.org/10.1039/d3na00862b>, Registrované v: WOS

2. [1.1] SANTOS, Ian Daniell - TJARKS, Patrick - MUTHU, Jeyavelan - LIN, You-Chen - YEN, Zhi-Long - CHAND, Pradyumna Kumar - RAMAN, Radha - NGUYEN, Dinh Tuan - ROUHANI, Mehdi - JENG, Yeau-Ren - HSIEH, Ya-Png - HOFMANN, Mario. Z-Laminating Assembly of Graphene Nanoflakes for Super-Strong Membranes and Functional Coatings. In *ACS APPLIED NANO MATERIALS*, 2024, vol. 7, no. 13, pp. 14957-14963. Dostupné na:

- <https://doi.org/10.1021/acsanm.4c00954>, Registrované v: WOS
- ADCA399 KAMEOKA, Satoshi** - KRAJČÍ, Marián - TSAI, An Pang. Highly selective semi-hydrogenation of acetylene over porous gold with twin boundary defects. In *Applied Catalysis A: General*, 2019, vol. 569, p. 101-109. (2018: 4.630 - IF, Q1 - JCR, 1.211 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0926-860X. Dostupné na: <https://doi.org/10.1016/j.apcata.2018.10.027>
- Citácie:
1. [1.1] ZHOU, Shihong - ZHOU, Wenyu - LU, Chenyang - CHEN, Yuping - ZHOU, Cailong - ZENG, Aonan - WANG, Anjie - ZHANG, Yong-Wei - TAN, Luxi - DONG, Lichun. Carburization in the Crystalline Structure of the Metal Ag for Efficient Selective Hydrogenation of Acetylene. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*, 2024, vol. 63, no. 30, pp. 13169-13179. ISSN 0888-5885. Dostupné na: <https://doi.org/10.1021/acs.iecr.4c01880>, Registrované v: WOS
- ADCA400 KANAYA, T. - TSUKUSHI, T. - KAJI, K. - BARTOŠ, Josef - KRIŠTIÁK, Jozef. Microscopic basis of free-volume concept as studied by quasielastic neutron scattering and positron annihilation lifetime spectroscopy. In *Physical Review E*, 1999, vol. 60, no. 2, p. 1906-1912. (1998: 2.066 - IF, karentované - CCC). (1999 - Current Contents). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.60.1906>
- Citácie:
1. [1.1] NGAI, K. L. *Universal properties of relaxation and diffusion in complex materials: Originating from fundamental physics with rich applications*. In *PROGRESS IN MATERIALS SCIENCE*, 2023, vol. 139, no., art. no. 101130. ISSN 0079-6425. Dostupné na: <https://doi.org/10.1016/j.pmatsci.2023.101130>, Registrované v: WOS
- ADCA401 KAPUSTOVÁ, Magdaléna* - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - GRANATA, Giuseppe* - NAPOLI, Edoardo - HVIZDOŠOVÁ, Adriana, Annušová - MESÁROŠOVÁ, Monika - KOZICS, Katarína - PANGALLO, Domenico** - GERACI, Coradda**. Biofilm inhibition by biocompatible poly(epsilon-caprolactone) nanocapsules loaded with essential oils and their cyto/genotoxicity to human keratinocyte cell line. In *International Journal of Pharmaceutics*, 2021, vol. 606, no. 12, art. no. 120846. (2020: 5.875 - IF, Q1 - JCR, 1.153 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0378-5173. Dostupné na: <https://doi.org/10.1016/j.ijpharm.2021.120846>
- Citácie:
1. [1.1] BURITI, Bruna Michele A. de B. - FIGUEIREDO, Pablo Luis B. - PASSOS, Marcele Fonseca - DA SILVA, Joyce Kelly R. Polymer-Based Wound Dressings Loaded with Essential Oil for the Treatment of Wounds: A Review. In *PHARMACEUTICALS*, 2024, vol. 17, no. 7, art. no. 897. Dostupné na: <https://doi.org/10.3390/ph17070897>, Registrované v: WOS
2. [1.1] COPPOLA, Bartolomeo - MENOTTI, Francesca - LONGO, Fabio - BANCHE, Giuliana - MANDRAS, Narcisa - PALMERO, Paola - ALLIZOND, Valeria. New Generation of Osteoinductive and Antimicrobial Polycaprolactone-Based Scaffolds in Bone Tissue Engineering: A Review. In *POLYMERS*, 2024, vol. 16, no. 12, art. no. 1668. Dostupné na: <https://doi.org/10.3390/polym16121668>, Registrované v: WOS
3. [1.1] D'ANGELI, Floriana - GRANATA, Giuseppe - ROMANO, Ivana Roberta - DISTEFANO, Alfio - LO FURNO, Debora - SPILA, Antonella - LEO, Mariantonietta - MIELE, Chiara - RAMADAN, Dania - FERRONI, Patrizia - LI VOLTI, Giovanni - ACCARDO, Paolo - GERACI, Corrada - GUADAGNI, Fiorella - GENOVESE, Carlo. Biocompatible Poly(ε-Caprolactone)

Nanocapsules Enhance the Bioavailability, Antibacterial, and Immunomodulatory Activities of Curcumin. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2024, vol. 25, no. 19, art. no. 10692. ISSN 1661-6596. Dostupné na: <https://doi.org/10.3390/ijms251910692>, Registrované v: WOS

4. [1.1] DAMYANOVA, Tsvetozara - DIMITROVA, Petya D. - BORISOVA, Dayana - TOPOUZOVA-HRISTOVA, Tanya - HALADJOVA, Emi - PAUNOVA-KRASTEVA, Tsvetelina. *An Overview of Biofilm-Associated Infections and the Role of Phytochemicals and Nanomaterials in Their Control and Prevention.* In *PHARMACEUTICS*, 2024, vol. 16, no. 2, art. no. 162. Dostupné na: <https://doi.org/10.3390/pharmaceutics16020162>, Registrované v: WOS

5. [1.1] NEJAD, Meysam Soltani - TARIGHI, Saeed - TAHERI, Parissa - DARROUDI, Majid. *Extracellular Biosynthesis Silver Nanoparticles Using Streptomyces spp. and Evaluating Its Effects Against Important Tomato Pathogens and Cancer Cells.* In *BIONANOSCIENCE*, 2024, vol. 14, no. 5, pp. 4845-4863. ISSN 2191-1630. Dostupné na: <https://doi.org/10.1007/s12668-024-01443-8>, Registrované v: WOS

6. [1.1] OH, Hyeryeon - LEE, Jin Sil - PARK, Hyojung - SON, Panmo - JEON, Byoung Seung - LEE, Sang Soo - SUNG, Daekyung - LIM, Jong-Min - CHOI, Won Il. *Phytochemical-Based Nanoantioxidants Stabilized with Polyvinylpyrrolidone for Enhanced Antibacterial, Antioxidant, and Anti-Inflammatory Activities.* In *ANTIOXIDANTS*, 2024, vol. 13, no. 9, art. no. 1056. Dostupné na: <https://doi.org/10.3390/antiox13091056>, Registrované v: WOS

7. [1.1] ROMERO-MONTERO, Alejandra - MELGOZA-RAMIREZ, Luis Javier - RUIZ-AGUIRRE, Jesus Augusto - CHAVEZ-SANTOSCOY, Alejandra - MAGANA, Jonathan Javier - CORTES, Hernan - LEYVA-GOMEZ, Gerardo - DEL PRADO-AUDELO, Maria Luisa. *Essential-Oils-Loaded Biopolymeric Nanoparticles as Strategies for Microbial and Biofilm Control: A Current Status.* In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2024, vol. 25, no. 1, art. no. 82. ISSN 1661-6596. Dostupné na: <https://doi.org/10.3390/ijms25010082>, Registrované v: WOS

8. [1.1] YEGUERMAN, Cristhian A. - JESSER, Emiliano N. - GILI, Valeria - RODRIGUEZ, Silvana - SANTILLAN, Graciela - MURRAY, Ana P. - GONZALEZ, Jorge O. Werdin. *Polymeric nanoparticles improve lethal and sublethal effects of essential oils and pyrethroids toward the rice weevil and the cigarette beetle.* In *JOURNAL OF PEST SCIENCE*, 2024, vol. 97, no. 3, pp. 1325-1341. ISSN 1612-4758. Dostupné na: <https://doi.org/10.1007/s10340-023-01702-9>, Registrované v: WOS

9. [1.1] ZERNADJI, Widad - JEBRI, Sihem - RAHMANI, Faten - AMRI, Ismail - AISSAOUI, Dorra - TRABELSI, Med Hedi - YAHYA, Mariem - AMRI, Islem - HMAIED, Fatma. *Effect of Gamma Irradiation on Pathogenic Staphylococcus aureus in Packaged Ready-to-Eat Salads Treated with Biological Extracts.* In *JOURNAL OF FOOD PROTECTION*, 2024, vol. 87, no. 3, art. no. 100232. ISSN 0362-028X. Dostupné na: <https://doi.org/10.1016/j.jfp.2024.100232>, Registrované v: WOS

ADCA402 KARATZA, Despina - KONSTANTOPOULOS, Christos - CHIANESE, Simeone** - DIPLAS, Spyros - ŠVEC, Peter - HRISTOFOROU, Evangelos - MUSMARRA, Dino. *Hydrogen production through water splitting at low temperature over Fe₃O₄ pellet: Effects of electric power, magnetic field, and temperature.* In *Fuel Processing Technology*, 2021, vol. 211, art. no. 106606. (2020: 7.033 - IF, Q1 - JCR, 1.497 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0378-3820. Dostupné na: <https://doi.org/10.1016/j.fuproc.2020.106606>
Citácie:

1. [1.1] AHMAD, Awais - KHAN, Safia - CHHABRA, Tripti - TARIQ, Sadaf - JAVED, Muhammad Sufyan - LI, Hu - NAQVI, Salman Raza - RAJENDRAN, Saravanan - LUQUE, Rafael - AHMAD, Ikram. Synergic impact of renewable resources and advanced technologies for green hydrogen production: Trends and perspectives. In *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, 2024, vol. 67, no., pp. 788-806. ISSN 0360-3199. Dostupné na: <https://doi.org/10.1016/j.ijhydene.2023.06.337>, Registrované v: WOS
2. [1.1] BARTIK, Alexander - BENEDIKT, Florian - FUCHS, Josef - HOFBAUER, Hermann - MUELLER, Stefan. Experimental investigation of hydrogen-intensified synthetic natural gas production via biomass gasification: a technical comparison of different production pathways. In *BIOMASS CONVERSION AND BIOREFINERY*, 2024, vol. 14, no. 18, pp. 23091-23110. ISSN 2190-6815. Dostupné na: <https://doi.org/10.1007/s13399-023-04341-3>, Registrované v: WOS
3. [1.1] FENG, Xiaojuan - SHI, Yanlong - NIU, Weipeng - ZHANG, Nana - WANG, Cheng - LEI, Yonggang - YANG, Hongyu - WANG, Hongyan. Sea urchin-like cobalt selenide/N-doped carbon dots as efficient bifunctional electrocatalysts for water electrolysis. In *JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY*, 2024, vol. 133, no., pp. 162-171. ISSN 1226-086X. Dostupné na: <https://doi.org/10.1016/j.jiec.2023.11.055>, Registrované v: WOS
4. [1.1] ISHAQ, Muhammad - DINCER, Ibrahim. Development of a new renewable energy system for clean hydrogen and ethanol production. In *ENERGY CONVERSION AND MANAGEMENT*, 2024, vol. 306, no., art. no. 118304. ISSN 0196-8904. Dostupné na: <https://doi.org/10.1016/j.enconman.2024.118304>, Registrované v: WOS
5. [1.1] LU, Xiaofei - GANKHUYAG, Tengisbold - OBATA, Keisuke - YU, Yuhang - TAKANABE, Kazuhiro. Selectivity control by modifying pressure, temperature, and ionomer decoration for CO₂ electroreduction using gas-diffusion Cu electrodes. In *CHEM CATALYSIS*, 2024, vol. 4, no. 7, art. no. 101030. ISSN 2667-1093. Dostupné na: <https://doi.org/10.1016/j.checat.2024.101030>, Registrované v: WOS
6. [1.1] RAGAB, Safaa - ELKATORY, Marwa R. - HASSAAN, Mohamed A. - EL NEMR, Ahmed. Experimental, predictive and RSM studies of H₂ production using Ag-La-CaTiO₃ for water-splitting under visible light. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 1019. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-51219-z>, Registrované v: WOS
7. [1.1] SINGH, Arun - SHARMA, Neeraj. Photocatalytic Hydrogen-Future Energy. In *MATERIALS CHEMISTRY AND PHYSICS*, 2024, vol. 322, no., art. no. 129342. ISSN 0254-0584. Dostupné na: <https://doi.org/10.1016/j.matchemphys.2024.129342>, Registrované v: WOS
8. [1.1] TEMIZ, Mert - DINCER, Ibrahim. A new carbon-negative hydrogen production cycle for better sustainability. In *JOURNAL OF ENVIRONMENTAL MANAGEMENT*, 2024, vol. 370, no., art. no. 122695. ISSN 0301-4797. Dostupné na: <https://doi.org/10.1016/j.jenvman.2024.122695>, Registrované v: WOS
9. [1.1] VAN DER MINNE, Emma - KOROL, Lucas - KRAKERS, Lidewij M. A. - VERHAGE, Michael - ROSARIO, Carlos M. M. - ROSKAMP, Thijs J. - SPITERI, Raymond J. - BIZ, Chiara - FIANCHINI, Mauro - BOUKAMP, Bernard A. - RIJNDERS, Guus - FLIPSE, Kees - GRACIA, Jose - MUL, Guido - HILGENKAMP, Hans - GREEN, Robert J. - KOSTER, Gertjan - BAEUMER, Christoph. The effect of intrinsic magnetic order on electrochemical water splitting. In *APPLIED PHYSICS REVIEWS*, 2024, vol. 11, no. 1, art. no. 011420. ISSN 1931-9401. Dostupné na: <https://doi.org/10.1063/5.0174662>, Registrované

v: WOS

10. [1.2] ABDELHAMID, Hani Nasser. *Magnetic-based nanocomposites for hydrogen generation as renewable energy*. In *Magnetic Nanoparticles and Polymer Nanocomposites Fundamentals and Biological Environmental and Energy Applications*, 2024-01-01, pp. 499-516. ISBN [9780323903417, 9780323857482]. Dostupné na: <https://doi.org/10.1016/B978-0-323-85748-2.00019-0>, Registrované v: SCOPUS

11. [1.2] SONG, Weifeng - WU, Jingli - LI, Jianqing - WANG, Zhiqi - HE, Tao - CHEN, Wenqing - SUN, Deshuai - WU, Jinhu. *Enhancing the performance of spinel La-doped CoFe₂O₄ oxygen carriers for chemical looping hydrogen generation*. In *Green Carbon*, 2024-12-01, 2, 4, pp. 393-400. Dostupné na: <https://doi.org/10.1016/j.greenca.2024.08.004>, Registrované v: SCOPUS

ADCA403

KARKI, Akchheta - WETZELAER, Gert-Jan A. H. - REDDY, Gollapalli Narayana Manjunatha - NÁDAŽDY, Vojtech - SEIFRID, Martin - SCHAUER, Franz - BAZAN, Guillermo C. - CHMELKA, Bradley F. - BLOM, Paul W. M. - NGUYEN, Thuc-Quyen**. *Unifying Energetic Disorder from Charge Transport and Band Bending in Organic Semiconductors*. In *Advanced Functional Materials*, 2019, vol. 29, no. 20, art. no. 1901109. (2018: 15.621 - IF, Q1 - JCR, 5.646 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.201901109>

Citácie:

1. [1.1] HAN, Ying - GENG, Yubo - LIU, Lijun - LI, Haoyuan. *Accurate Description of Coulombic Interactions in Organic Field-Effect Transistors Enabled by Efficient 3D Poisson's Equation Solver with Mixed Boundary Conditions*. In *ADVANCED THEORY AND SIMULATIONS*, 2024, vol. 7, no. 7. Dostupné na: <https://doi.org/10.1002/adts.202301259>, Registrované v: WOS

2. [1.1] KIM, Seung Hyun - PARK, Sangsik - CHUNG, Sein - OK, Eunsol - KIM, Byeong Jin - JANG, Jong Dae - KANG, Boseok - CHO, Kilwon. *Multiscale Analyses of Strain-Enhanced Charge Transport in Conjugated Polymers*. In *ACS NANO*, 2024, vol. 18, no. 45, pp. 31332-31348. ISSN 1936-0851. Dostupné na: <https://doi.org/10.1021/acsnano.4c10775>, Registrované v: WOS

3. [1.1] MANCHI, Punnarao - GRAHAM, Sontyana Adonijah - PARANJAPÉ, Mandar Vasant - KURAKULA, Anand - KAVARTHAPU, Venkata Siva - YU, Jae Su. *Calcium copper titanate incorporated polydimethylsiloxane flexible composite film-based triboelectric nanogenerator for energy harvesting and self-powered sensing applications*. In *JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY*, 2024, vol. 190, no., pp. 56-66. ISSN 1005-0302. Dostupné na: <https://doi.org/10.1016/j.jmst.2023.11.059>, Registrované v: WOS

4. [1.1] MANDAL, Sougata - MENON, Reghu. *Electric field induced phototransport in dye-doped semiconducting polymer*. In *PHYSICAL REVIEW MATERIALS*, 2024, vol. 8, no. 7, art. no. 075602. ISSN 2475-9953. Dostupné na: <https://doi.org/10.1103/PhysRevMaterials.8.075602>, Registrované v: WOS

5. [1.1] WANG, Lei - YUAN, Shihao - QIAN, Feng - ZHANG, Ting - ZHENG, Hualin - LI, Xiaobo - LAN, Tianyu - XU, Qien - ZHANG, Peng - LI, Shibin. *Electrophilic molecule-induced π - π interactions reduce energy disorder of the hole transport layer for highly efficient perovskite solar modules*. In *ENERGY & ENVIRONMENTAL SCIENCE*, 2024, vol. 17, no. 21, pp. 8337-8348. ISSN 1754-5692. Dostupné na: <https://doi.org/10.1039/d4ee03173c>, Registrované v: WOS

6. [1.1] YANG, Yuhui - SHEN, Huaqi - GE, Sisi - YAO, Zhiyuan - ZUO, Biao. *Distribution of Density of States in Organic Field-Effect Transistors Based on Polymer Dielectrics*. In *ADVANCED MATERIALS INTERFACES*, 2024, vol. 11, no. 25. ISSN 2196-7350. Dostupné na: <https://doi.org/10.1002/admi.202400239>,

Registrované v: WOS

7. [1.1] ZHANG, Chujun - FENG, Erming - GAO, Yaxin - WONG, Vox Kalai - LI, Hengyue - LIU, Biao - MAHADEVAN, Sudhi - TSANG, Sai-Wing - YANG, Junliang - SO, Shu Kong. Temperature-dependent charge transport measurements unveil morphological insights in non-fullerene organic solar cells. In *APPLIED PHYSICS LETTERS*, 2024, vol. 125, no. 10, art. no. 103902. ISSN 0003-6951.

Dostupné na: <https://doi.org/10.1063/5.0214151>, Registrované v: WOS

8. [1.1] ZHU, Xitong - LUO, Xiao - DENG, Yunzhou - WEI, Huan - YING, Lei - HUANG, Fei - HU, Yuanyuan - JIN, Yizheng. Doping bilayer hole-transport polymer strategy stabilizing solution-processed green quantum-dot light-emitting diodes. In *SCIENCE ADVANCES*, 2024, vol. 10, no. 33, art. no. eado0614. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.ado0614>, Registrované v: WOS

ADCA404 KARKI, Akchheta - VOLLBRECHT, Joachim - GILLET, Alexander J. - SELTER, Philipp - LEE, Jaewon - PENG, Zhengxing - SCHOPP, Nora - DIXON, Alana L. - SCHROCK, Max - NÁDAŽDY, Vojtech - SCHAUER, Franz - ADE, Harald - CHMELKA, Bradley F. - BAZAN, Guillermo C. - FRIEND, Richard H. - NGUYEN, Thuc-Quyen**. Unifying Charge Generation, Recombination, and Extraction in Low-Offset Non-Fullerene Acceptor Organic Solar Cells. In *Advanced Energy Materials*, 2020, vol. 10, no. 29, art. no. 2001203. (2019: 25.245 - IF, Q1 - JCR, 9.513 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1614-6832. Dostupné na: <https://doi.org/10.1002/aenm.202001203>

Citácie:

1. [1.1] BENATTO, Leandro - MESQUITA, Omar - ROMAN, Lucimara S. - KOEHLER, Marlus - CAPAZ, Rodrigo B. - CANDIOTTO, Graziani. RI-Calc: A user friendly software and web server for refractive index calculation. In *COMPUTER PHYSICS COMMUNICATIONS*, 2024, vol. 298, no., art. no. 109100. ISSN 0010-4655. Dostupné na:

<https://doi.org/10.1016/j.cpc.2024.109100>, Registrované v: WOS

2. [1.1] CARR, Joshua M. - GISH, Melissa K. - REID, Obadiah G. - RUMBLES, Garry. Missing Excitons: How Energy Transfer Competes with Free Charge Generation in Dilute-Donor/Acceptor Systems. In *ACS ENERGY LETTERS*, 2024, vol. 9, no. 3, pp. 896-907. ISSN 2380-8195. Dostupné na:

<https://doi.org/10.1021/acsenergylett.3c01969>, Registrované v: WOS

3. [1.1] DING, Yafei - XIONG, Shilong - LI, Mingpeng - PU, Mingrui - ZHU, Yiwu - LAI, Xue - WANG, Yunpeng - QIU, Dongsheng - LAI, Hanjian - HE, Feng. Highly-Efficient 2D Nonfullerene Acceptors Enabled by Subtle Molecular Tailoring Engineering. In *SMALL*, 2024, vol. 20, no. 21. ISSN 1613-6810.

Dostupné na: <https://doi.org/10.1002/sml.202309169>, Registrované v: WOS

4. [1.1] DONG, Yifan - ZHENG, Rui - QIAN, Deping - LEE, Tack Ho - BRISTOW, Helen L. - SHAKYA TULADHAR, Pabitra - CHA, Hyojung - DURRANT, James R. Activationless Charge Transfer Drives Photocurrent Generation in Organic Photovoltaic Blends Independent of Energetic Offset. In *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*, 2024, vol. 146, no. 49, pp. 33579-33586. ISSN 0002-7863. Dostupné na: <https://doi.org/10.1021/jacs.4c11114>,

Registrované v: WOS

5. [1.1] JIA, Tao - LUO, Yongmin - HAI, Yulong - LIN, Tao - QIN, Xudong - MA, Ruijie - FAN, Kezhou - SERGEEV, Aleksandr A. - DELA PENA, Top Archie - LI, Yao - LI, Mingjie - WONG, Kam Sing - LI, Gang - WU, Jiaying - LIU, Shengjian - HUANG, Fei. Naphtho[1,2-c:5,6-c']bis([1,2,3]thiadiazole) enables the design of efficient halogen-free polymer donors and fabrication of organic solar cells with 19% efficiency. In *ENERGY & ENVIRONMENTAL SCIENCE*, 2024, vol. 17, no.

22, pp. 8593-8608. ISSN 1754-5692. Dostupné na:

<https://doi.org/10.1039/d4ee02414a>, Registrované v: WOS

6. [1.1] LAN, Ai - LI, Yiqun - ZHU, Huiwen - ZHU, Jintao - LU, Hong - DO, Hainam - LV, Yifan - CHEN, Yonghua - CHEN, Zhikuan - CHEN, Fei - HUANG, Wei. Improved Efficiency and Stability of Organic Solar Cells by Interface Modification Using Atomic Layer Deposition of Ultrathin Aluminum Oxide. In *ENERGY & ENVIRONMENTAL MATERIALS*, 2024, vol. 7, no. 3, art. no. e12620. Dostupné na: <https://doi.org/10.1002/eem2.12620>, Registrované v: WOS

7. [1.1] LI, Dongyang - LIAN, Qing - DU, Tao - MA, Ruijie - LIU, Heng - LIANG, Qiong - HAN, Yu - MI, Guojun - PENG, Ouwen - ZHANG, Guihua - PENG, Wenbo - XU, Baomin - LU, Xinhui - LIU, Kuan - YIN, Jun - REN, Zhiwei - LI, Gang - CHENG, Chun. Co-adsorbed self-assembled monolayer enables high-performance perovskite and organic solar cells. In *NATURE COMMUNICATIONS*, 2024, vol. 15, no. 1, art. no. 7605. Dostupné na:

<https://doi.org/10.1038/s41467-024-51760-5>, Registrované v: WOS

8. [1.1] PAPKOVSKAYA, Elizaveta D. - BALAKIREV, Dmitry O. - MIN, Jie - LUPONOSOV, Yuriy N. Toward commercially viable non-fullerene organic solar cells: a critical review of recent developments in high-performance non-fused ring electron acceptors. In *MATERIALS TODAY ENERGY*, 2024, vol. 43, no. ISSN 2468-6069. Dostupné na: <https://doi.org/10.1016/j.mtener.2024.101591>, Registrované v: WOS

9. [1.1] PRANAV, Manasi - SHUKLA, Atul - MOSER, David - RUMENEY, Julia - LIU, Wenlan - WANG, Rong - SUN, Bowen - SMEETS, Sander - TOKMOLDIN, Nurlan - CAO, Yonglin - HE, Guorui - BEITZ, Thorben - JAISER, Frank - HULTZSCH, Thomas - SHOAEE, Safa - MAES, Wouter - LUEER, Larry - BRABEC, Christoph - VANDEWAL, Koen - ANDRIENKO, Denis - LUDWIGS, Sabine - NEHER, Dieter. On the critical competition between singlet exciton decay and free charge generation in non-fullerene based organic solar cells with low energetic offsets. In *ENERGY & ENVIRONMENTAL SCIENCE*, 2024, vol. 17, no. 18, pp. 6676-6697. ISSN 1754-5692. Dostupné na:

<https://doi.org/10.1039/d4ee01409j>, Registrované v: WOS

10. [1.1] SAYNER, Thomas - RUSECKAS, Arvydas - HARWELL, Jonathon R. - SAMUEL, Ifor D. W. Exciton Diffusion to Low Energy Sites of the Acceptor Drives Charge Photogeneration in D18:Y6 Solar Cells. In *JOURNAL OF PHYSICAL CHEMISTRY C*, 2024, vol. 128, no. 45, pp. 19319-19328. ISSN 1932-7447.

Dostupné na: <https://doi.org/10.1021/acs.jpcc.4c06706>, Registrované v: WOS

ADCA405 KAVETSKYY, T. - NOWAK, B. - BORC, J. - RUSNÁK, Jaroslav - ŠAUŠA, Ondrej - STEPANOV, A.L. Carbonization in boron-ion-implanted polymethylmethacrylate as revealed from Raman spectroscopy and electrical measurements. In *Spectroscopy Letters : An International Journal for Rapid Communication*, 2016, vol. 49, no. 1, p. 5-10. (2015: 0.885 - IF, Q3 - JCR, 0.263 - SJR, Q3 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0038-7010. Dostupné na:

<https://doi.org/10.1080/00387010.2015.1044113>

Citácie:

1. [1.1] ZHOU, Junjie - TAN, Ji - HOU, Zhiyu - ZHANG, Xianming - QIAN, Shi - LIU, Xuanyong. Rapid In Situ Preparation of Conductive Graphite-like Films on Polymer Surfaces via Hydrogen Plasma Technology. In *ACS APPLIED MATERIALS & INTERFACES*, 2024, vol. 16, no. 47, pp. 65503-65516. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.4c13376>, Registrované v: WOS

ADCA406 KAVETSKYY, Taras** - SMUTOK, Oleh - DEMKIV, Olha - KASETAITE, Sigita - OSTRAUSKAITE, Jolita - ŠVAJDLENKOVÁ, Helena - ŠAUŠA, Ondrej -

ZUBRYTSKA, Khrystyna - HOIVANOVYCH, Nataliia - GONCHAR, Mykhailo. Dependence of operational parameters of laccase-based biosensors on structure of photocross-linked polymers as holding matrixes. In *European Polymer Journal*, 2019, vol. 115, p. 391-398. (2018: 3.621 - IF, Q1 - JCR, 0.967 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0014-3057. Dostupné na: <https://doi.org/10.1016/j.eurpolymj.2019.03.056>

Citácie:

1. [1.1] CONSOLATI, Giovanni - MACCHI, Carlos - SOMOZA, Alberto. *Current Positron Studies on the Modifications of the Molecular Packing in Green-Based Polymers Through Changes in the Synthesis Procedures or Environmental Conditions*. In *POLYMERS*, 2024, vol. 16, no. 24, art. no. 3611. Dostupné na: <https://doi.org/10.3390/polym16243611>, Registrované v: WOS

2. [1.1] KYOMUHIMBO, Hilda Dinah - FELENI, Usisipho - HANEKLAUS, Nils Hendrik - BRINK, Hendrik Gideon. *ZnO-Polyaniline Nanocomposite Functionalised with Laccase Enzymes for Electrochemical Detection of Cetyltrimethylammonium Bromide (CTAB)*. In *JOURNAL OF XENOBIOTICS*, 2024, vol. 14, no. 4, pp. 1988-2002. ISSN 2039-4705. Dostupné na: <https://doi.org/10.3390/jox14040106>, Registrované v: WOS

ADCA407

KAVETSKYY, Taras** - SMUTOK, Oleh - DEMKIV, Olha - MAŤKO, Igor - ŠVAJDLENKOVÁ, Helena - ŠAUŠA, Ondrej - NOVÁK, Ivan - BEREK, Dušan - ČECHOVÁ, Katarína - PECZ, Michal - NYKOLAISHYN-DYTSO, Oksana - WOJNAROWSKA-NOWAK, Renata - BRODA, Daniel - GONCHAR, Mykhailo - ZGARDZIŃSKA, Bozena. Microporous carbon fibers as electroconductive immobilization matrixes: Effect of their structure on operational parameters of laccase-based amperometric biosensor. In *Materials Science and Engineering C: Materials for Biological Applications*, 2020, vol. 109, art. no. 110570, [8] p. (2019: 5.880 - IF, Q1 - JCR, 1.149 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0928-4931. Dostupné na: <https://doi.org/10.1016/j.msec.2019.110570>

Citácie:

1. [1.1] AN, Xiaoyong - WANG, Yida - CHEN, Zhenghao - ZHANG, Jiafei - ZHANG, Shuangbao. *Synergistic modification of bamboo fibers by laccase-catechol/ tetraethylenepentamine and preparation of poly (β-hydroxybutyrate) composites*. In *INDUSTRIAL CROPS AND PRODUCTS*, 2024, vol. 216, no., art. no. 118696. ISSN 0926-6690. Dostupné na: <https://doi.org/10.1016/j.indcrop.2024.118696>, Registrované v: WOS

2. [1.1] GULIYA, Himani - YADAV, Meena - NOHWAL, Bhawna - LATA, Suman - CHAUDHARY, Reeti. *Emphasizing laccase based amperometric biosensing as an eventual panpharmacon for rapid and effective detection of phenolic compounds*. In *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*, 2024, vol. 1868, no. 11, art. no. 130691. ISSN 0304-4165. Dostupné na: <https://doi.org/10.1016/j.bbagen.2024.130691>, Registrované v: WOS

3. [1.1] SHARMA, Divya - GUPTA, Reena. *Laccase: exploring structural insights and functional versatility for applications*. In *BIOLOGIA*, 2024, vol. 79, no. 11, pp. 3381-3393. ISSN 0006-3088. Dostupné na: <https://doi.org/10.1007/s11756-024-01787-2>, Registrované v: WOS

ADCA408

KAVETSKYY, Taras** - SMUTOK, Oleh** - DEMKIV, Olha - KUKHAZH, Yuliia - STASYUK, Nataliya - LEONENKO, Evhen - KIV, Arnold - KOBAYASHI, Yoshinori - KINOMURA, Atsushi - ŠAUŠA, Ondrej - GONCHAR, Mykhailo - KATZ, Evgeny**. Improvement of laccase biosensor characteristics using sulfur-doped TiO₂ nanoparticles. In *Bioelectrochemistry*, 2022, vol. 147, no. 10, art. no. 108215. (2021: 5.760 - IF, Q1 - JCR, 0.770 - SJR, Q2 - SJR, karentované - CCC).

(2022 - Current Contents). ISSN 1567-5394. Dostupné na:

<https://doi.org/10.1016/j.bioelechem.2022.108215>

Citácie:

1. [1.1] PATIL, Yuvarajgouda N. - MEGALAMANI, Manjunath B. - GOWDA, D. A. Ayush - NANDIBEWOR, Sharanappa T. - HIREMATH, Shivashankar. Pioneer electrochemical approach for the determination of Metaxalone in biomedical and environmental samples using W: TiO₂/S-GCN@CPE sensor. In MICROCHEMICAL JOURNAL, 2024, vol. 205, no., art. no. 111189. ISSN 0026-265X. Dostupné na: <https://doi.org/10.1016/j.microc.2024.111189>, Registrované v: WOS
2. [1.1] PURCAREA, Cristina - RUGINESCU, Robert - BANCIU, Roberta Maria - VASILESCU, Alina. Extremozyme-Based Biosensors for Environmental Pollution Monitoring: Recent Developments. In BIOSENSORS-BASEL, 2024, vol. 14, no. 3, art. no. 143. Dostupné na: <https://doi.org/10.3390/bios14030143>, Registrované v: WOS
3. [1.1] TANG, Huanyu - CUI, Mingyue - ZHANG, Miaorong - ZHANG, Yan. A graphitized carbon@boron carbide-mediated laccase-based amperometric biosensor for epinephrine detection. In BIOELECTROCHEMISTRY, 2024, vol. 155, no., art. no. 108591. ISSN 1567-5394. Dostupné na: <https://doi.org/10.1016/j.bioelechem.2023.108591>, Registrované v: WOS
4. [1.1] WANG, Shouqi - CUI, Mingyue - TANG, Huanyu - ZHANG, Miaorong - ZHANG, Yan. Gold nanoparticles-amplified laccase-based electrochemical biosensor using graphitized carbon@boron carbide as electron transfer promoter. In MICROCHEMICAL JOURNAL, 2024, vol. 207, no., art. no. 111976. ISSN 0026-265X. Dostupné na: <https://doi.org/10.1016/j.microc.2024.111976>, Registrované v: WOS
5. [1.2] WEBER, Courtney J. - WHISONANT, Megan D. - CLAY, Olivia M. - SIMOSKA, Olja. Perspective—Surface-display Techniques in Electrochemical Biosensor Designs for Health Monitoring. In Ecs Sensors Plus, 2024-06-03, 3, 2, pp. Dostupné na: <https://doi.org/10.1149/2754-2726/ad49af>, Registrované v: SCOPUS

ADCA409 KECKES, J. - DANIEL, R. - MITTERER, C. - MAŤKO, Igor - SARTORY, B. - KOEPF, A. - WEISSENBACHER, R. - PITONAK, R. Self-organized periodic soft-hard nanolamellae in polycrystalline TiAlN thin films. In Thin Solid Films, 2013, vol. 545, p. 29-32. (2012: 1.604 - IF, Q2 - JCR, 0.897 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0040-6090. Dostupné na: <https://doi.org/10.1016/j.tsf.2013.08.001>

Citácie:

1. [1.1] BAKKEN, Kristine - BACKE, Olof - MOULIK, Samik Roy - STARK, Andreas - MANNS, Thorsten - STIENS, Dirk - HALVARSSON, Mats - COLLIANDER, Magnus Hornqvist. Effect of post-annealing on the thermal stability and residual stresses in CVD (Al,Ti)N coatings investigated by in situ synchrotron diffraction. In INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS, 2024, vol. 124, no., art. no. 106810. ISSN 0263-4368. Dostupné na: <https://doi.org/10.1016/j.ijrmhm.2024.106810>, Registrované v: WOS
2. [1.1] DAS, Suprabha - DURYGIN, Andriy - DROZD, Vadym - SOZAL, Md Shariful Islam - CHENG, Zhe. Reactive flash sintering of TiZrN and TiAlN ternary metal nitrides. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, 2024, vol. 44, no. 4, pp. 2037-2051. ISSN 0955-2219. Dostupné na: <https://doi.org/10.1016/j.jeurceramsoc.2023.11.079>, Registrované v: WOS
3. [1.1] SUN, Xu - LIU, Zhe R. - CHEN, Li - WANG, Jian C. Structure,

mechanical and thermal properties of Ti_{1-x-y-z}Al_xTa_yBzN coatings. In SURFACE & COATINGS TECHNOLOGY, 2024, vol. 476, no., art. no. 130266. ISSN 0257-8972. Dostupné na: <https://doi.org/10.1016/j.surfcoat.2023.130266>, Registrované v: WOS

4. [1.1] WU, Liying - QIU, Lianchang - ZENG, Fangfang - LU, Qiang - SCHALK, Nina - CHEN, Liyong - YIN, Lei - ZHONG, Zhiqiang - DU, Yong. Thermal stability and oxidation resistance of Ti_{0.22}Al_{0.74}Si_{0.04}N coating synthesized by chemical vapor deposition. In JOURNAL OF ALLOYS AND COMPOUNDS, 2024, vol. 986, no., art. no. 174107. ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.174107>, Registrované v: WOS

ADCA410 KEPIĆ, Dejan P.** - RISTIĆ, Ivan S. - MARINOVIĆ-CINCOVIĆ, Milena T. - PERUŠKO, Davor B. - ŠPITÁLSKY, Zdenko - PAVLOVIĆ, Vladimir B. - BUDIMIR, Milica D. - ŠIFFALOVIĆ, Peter - DRAMIĆANIN, Miroslav D. - MIČUŠÍK, Matej - KLEINOVÁ, Angela - JANIGOVÁ, Ivica - MARKOVIĆ, Zoran M. - TODOROVIĆ MARKOVIĆ, Biljana M. Simple route for the preparation of graphene/poly(styrene-b-butadiene-b-styrene) nanocomposite films with enhanced electrical conductivity and hydrophobicity. In Polymer International, 2018, vol. 67, no. 8, p. 1118-1127. (2017: 2.352 - IF, Q2 - JCR, 0.680 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0959-8103. Dostupné na: <https://doi.org/10.1002/pi.5620>

Citácie:

1. [1.1] ZHU, Liming - ZHOU, Xinran - ZHANG, Jiwei - XIA, Yong - WU, Mengjie - ZHANG, Yue - LU, Zeren - LI, Weikang - LIU, Luyun - LIU, Hao - YU, Jianyong - XIONG, Jiaqing. Self-Adhesive Elastic Conductive Ink with High Permeability and Low Diffusivity for Direct Printing of Universal Textile Electronics. In ACS NANO, 2024, vol. 18, no. 51, pp. 34750-34762. ISSN 1936-0851. Dostupné na: <https://doi.org/10.1021/acsnano.4c11291>, Registrované v: WOS

2. [1.2] JAISWAL, Rimpa - MODAK, Mantu - DEVI, Sudeepa. Overview of Electrochemical Exfoliation Approaches. In Engineering Materials, 2024-01-01, part F2883, pp. 1-31. ISSN 16121317. Dostupné na: https://doi.org/10.1007/978-981-97-2128-3_1, Registrované v: SCOPUS

ADCA411 KERN, S.** - NEILINGER, Pavol - IL'ICHEV, E. - SULTANOV, A. - SCHMELZ, M. - LINZEN, S. - KUNERT, J. - OELSNER, G. - STOLZ, R. - DANILOV, A. - MAHASHABDE, S. - JAYARAMAN, A. - ANTONOV, V. - KUBATKIN, S. - GRAJCAR, Miroslav. Reflection-enhanced gain in traveling-wave parametric amplifiers. In Physical Review B, 2023, vol. 107, no. 17, art. no. 174520. (2022: 3.7 - IF, Q2 - JCR, 1.468 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.107.174520>

Citácie:

1. [1.1] GUARCELLO, Claudio - AHRENS, Felix - AVALLONE, Guerino - BARONE, Carlo - BORGHESI, Matteo - CALLEGARO, Luca - CARAPELLA, Giovanni - CARICATO, Anna Paola - CARUSOTTO, Iacopo - CIAN, Alessandro - D'ELIA, Alessandro - DI GIOACCHINO, Daniele - ENRICO, Emanuele - FALFERI, Paolo - FASOLO, Luca - FAVERZANI, Marco - FERRI, Elena - FILATRELLA, Giovanni - GATTI, Claudio - GIACHERO, Andrea - GIUBERTONI, Damiano - GRANATA, Veronica - LEO, Angelo - LABRANCA, Danilo - LIGI, Carlo - MACCARRONE, Giovanni - MANTEGAZZINI, Federica - MARGESIN, Benno - MARUCCIO, Giuseppe - MEZZENA, Renato - MONTEDURO, Anna Grazia - MORETTI, Roberto - NUCCIOTTI, Angelo - OBERTO, Luca - ORIGO, Luca - KOMNANG, Alex Stephane Piedjou - PAGANO,

Sergio - PIERSANTI, Luca - RETTAROLI, Alessio - RIZZATO, Silvia - TOCCI, Simone - VINANTE, Andrea - ZANNONI, Mario. Nonlinear Behavior of Josephson Traveling Wave Parametric Amplifiers. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*, 2024, vol. 34, no. 3, art. no. 1701105. ISSN 1051-8223. Dostupné na: <https://doi.org/10.1109/TASC.2024.3367615>, Registrované v: WOS

2. [1.1] GUARCELLO, Claudio - BARONE, Carlo - CARAPPELLA, Giovanni - GRANATA, Veronica - FILATRELLA, Giovanni - GIACHERO, Andrea - PAGANO, Sergio. Driving a Josephson Traveling Wave Parametric Amplifier into chaos: Effects of a non-sinusoidal current-phase relation. In *CHAOS SOLITONS & FRACTALS*, 2024, vol. 189, no., art. no. 115598. ISSN 0960-0779. Dostupné na: <https://doi.org/10.1016/j.chaos.2024.115598>, Registrované v: WOS

3. [1.1] SHIN, S.h. - STANLEY, M. - WONG, W. N. - SWEETNAM, T. - ELARABI, A. - LINDSTROM, T. - RIDLER, N. M. - DE GRAAF, S. E. In-operando microwave scattering-parameter calibrated measurement of a Josephson traveling wave parametric amplifier. In *APPLIED PHYSICS LETTERS*, 2024, vol. 125, no. 10, art. no. 104001. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0220776>, Registrované v: WOS

4. [1.2] MALNOU, Maxime - AUMENTADO, José. Deconstructing the Traveling Wave Parametric Amplifier. In *IEEE Transactions on Microwave Theory and Techniques*, 2024-04-01, 72, 4, pp. 2158-2167. ISSN 00189480. Dostupné na: <https://doi.org/10.1109/TMTT.2024.3367176>, Registrované v: SCOPUS

ADCA412 KERNER, L. - GMUCOVÁ, Katarína - KOŽÍŠEK, J. - PETŘÍČEK, V. - PUTALA, M. Easily oxidizable triarylamine materials with naphthalene and binaphthalene core: structure-properties relationship. In *Tetrahedron*, 2016, vol. 72, no. 44, p. 7081-7092. (2015: 2.645 - IF, Q2 - JCR, 0.941 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0040-4020. Dostupné na: <https://doi.org/10.1016/j.tet.2016.09.063>

Citácie:

1. [1.1] CAMARADA, Maria B. - ANGEL, Felipe A. - JESSOP, Ignacio A. Computational prediction of the properties of bis(ethynylthienyl)dialcoxynaphthalene-based conjugated polymers for organic solar cell applications. In *INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY*, 2024, vol. 124, no. 1, art. no. e27283. ISSN 0020-7608. Dostupné na: <https://doi.org/10.1002/qua.27283>, Registrované v: WOS

2. [1.1] GRIBANOV, Pavel S. - PHILIPPOVA, Anna N. - TOPCHIIY, Maxim A. - LYPENKO, Dmitry A. - DMITRIEV, Artem V. - TOKAREV, Sergey D. - SMOL'YAKOV, Alexander F. - RODIONOV, Alexey N. - ASACHENKO, Andrey F. - OSIPOV, Sergey N. Synthesis of 5-(Aryl)amino-1,2,3-triazole-containing 2,1,3-Benzothiadiazoles via Azide-Nitrile Cycloaddition Followed by Buchwald-Hartwig Reaction. In *MOLECULES*, 2024, vol. 29, no. 9, art. no. 2151. Dostupné na: <https://doi.org/10.3390/molecules29092151>, Registrované v: WOS

3. [1.1] SAKAI, Misato - FUJIO, Shinya - IMAYOSHI, Ayumi - SASAMORI, Takahiro - OKADA, Keita - IMAI, Yoshitane - HASEGAWA, Masashi - TSUBAKI, Kazunori. Synthesis and Optical Properties of Binaphthyl Derivatives with Comprehensive Introduction of Phenylethynyl Groups. In *CHEMISTRY-AN ASIAN JOURNAL*, 2024, vol. 19, no. 15. ISSN 1861-4728. Dostupné na: <https://doi.org/10.1002/asia.202400159>, Registrované v: WOS

4. [1.2] HOLZHAUER, Laura. Synthesis of Functional Quinoxaline Derivatives for the Application in Biology and Materials Sciences. In *Synthesis of Functional Quinoxaline Derivatives for the Application in Biology and Materials Sciences*, 2024-02-19, pp. 1-436. ISBN [9783832557799, 9783832582876]., Registrované

v: SCOPUS

- ADCA413 KETOLAINEN, J. - KUBIČÁR, Ľudovít - BOHÁČ, Vlastimil - MARKOVIČ, Marián - PARONEN, P. Thermophysical properties of some pharmaceutical excipients compressed in tablets. In *Pharmaceutical Research*, 1995, vol. 12, no. 11, p. 1701-1707. ISSN 0724-8741. Dostupné na: <https://doi.org/10.1023/A:1016261605023>
- Citácie:
1. [1.1] LEE, Jongmin - GOODWIN, Daniel J. - DHENG, Ranjit M. - NASSAR, Joelle - ZEITLER, J. Axel. Calorimetric investigation on heat release during the disintegration process of pharmaceutical tablets. In *INTERNATIONAL JOURNAL OF PHARMACEUTICS*, 2024, vol. 660, no., art. no. 124315. ISSN 0378-5173. Dostupné na: <https://doi.org/10.1016/j.ijpharm.2024.124315>, Registrované v: WOS
- ADCA414 KHEDIF, Youssef** - HADDADI, Saeed - DAOUD, Mohammed - DOLATKHAH, Hazhir - POURKARIMI, Mohammad Reza. Non-classical correlations in a Heisenberg spin model with Heitler-London approach. In *Quantum Information Processing*, 2022, vol. 21, no. 7, art. no. 235. (2021: 1.965 - IF, Q2 - JCR, 0.463 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-022-03565-y>
- Citácie:
1. [1.1] ADNANE, Brahim - MOQINE, Younes - KHRIBACH, Aziz - EL HOURI, Abdelghani - HOUC, Rachid - CHOUBABI, El Bouazzaoui - BELOUAD, Abdelhadi. Dynamics of Quantum Correlation in a Two-qutrit Heisenberg XXZ Model with Heitler-London and Dzyaloshinskii-Moriya Couplings. In *ANNALEN DER PHYSIK*, 2024, vol. 536, no. 8. ISSN 0003-3804. Dostupné na: <https://doi.org/10.1002/andp.202400086>, Registrované v: WOS
2. [1.1] RI, Su-Bok - KIM, Gwang-Jin - KIM, Ha. Dynamics of Quantum Correlation in Two-Qubit Heisenberg XYZ Hamiltonian With Nonuniform Magnetic Field. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 12, art. no. 310. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05842-1>, Registrované v: WOS
3. [1.2] AIT CHLIH, Anas - RAHMAN, Atta ur - HABIBALLAH, Nabil. Prospecting Quantum Correlations and Examining Teleportation Fidelity in a Pair of Coupled Double Quantum Dots System. In *Annalen Der Physik*, 2024-03-01, 536, 3, pp. ISSN 00033804. Dostupné na: <https://doi.org/10.1002/andp.202300434>, Registrované v: SCOPUS
4. [1.2] RI, Su Bok. Quantum correlation of the Heisenberg xxz Hamiltonian with nonuniform external magnetic field and Dzyaloshinskii-Moriya interaction. In *Indian Journal of Physics*, 2024-09-01, 98, 10, pp. 3615-3622. ISSN 09731458. Dostupné na: <https://doi.org/10.1007/s12648-024-03114-6>, Registrované v: SCOPUS
- ADCA415 KHERA, Ejaz Ahmad - NAZIR, Abrar - MANZOOR, Mumtaz - AYUB, Muzna - HUSSAIN, Fayyaz - AL-ASBAHI, Bandar Ali - SHARMA, Ramesh. First principles exploration of structural stability, optoelectronic and thermoelectric properties of BaXO₃ (X = Hf, Ti, V) for solar cell applications. In *Materials Today Communications*, 2024, vol. 39, no. 10, art. no. 108629. (2023: 3.7 - IF, Q2 - JCR, 0.671 - SJR, Q2 - SJR). ISSN 2352-4928. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2024.108629>
- Citácie:
1. [1.1] SHIRVANI, Fatemeh - JAFARI, Mohammad Reza - SHOKRI, Aliasghar. Studying supercapacitance and thermoelectric performance of semiconductor BaTiO₃ along with its halfmetal alloy of BaTiFO₂: A DFT+U investigation. In

JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, 2024, vol. 193, no., art. no. 112173. ISSN 0022-3697. Dostupné na: <https://doi.org/10.1016/j.jpics.2024.112173>, Registrované v: WOS

- ADCA416 KHODABAKHSHI, F.** - SIMCHI, A. - KOKABI, A.H. - GERLICH, A.P. - NOSKO, Martin - ŠVEC, Peter. Influence of hard inclusions on microstructural characteristics and textural components during dissimilar friction-stir welding of an PM Al–Al₂O₃–SiC hybrid nanocomposite with AA1050 alloy. In *Science and Technology of Welding and Joining*, 2017, vol. 22, no. 5, p. 412-427. (2016: 2.050 - IF, Q1 - JCR, 1.529 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1362-1718. Dostupné na: <https://doi.org/10.1080/13621718.2016.1251714>

Citácie:

1. [1.1] WANG, C. - ZHU, X.Y. - FAN, Y.X. - LIU, J.A. - XIE, L.W. - JIANG, C. - XIAO, X. - WU, P. - YOU, X.M. Microstructure and Properties of Aluminum-Graphene-SiC Matrix Composites after Friction Stir Processing. In *MATERIALS*. MAR 2024, vol. 17, no. 5. Dostupné na: <https://doi.org/10.3390/ma17050979>, Registrované v: WOS

- ADCA417 KHODABAKHSHI, F.** - GERLICH, A.P. - ŠVEC, Peter. Fabrication of a high strength ultra-fine grained Al-Mg-SiC nanocomposite by multi-step friction-stir processing. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing*, 2017, vol. 698, p. 313-325. (2016: 3.094 - IF, Q1 - JCR, 1.669 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2017.05.065>

Citácie:

1. [1.1] CAO, Chezheng - KILLIPS, Alexander - LI, Xiaochun. Advances in the Science and Engineering of Metal Matrix Nanocomposites: A Review. In *ADVANCED ENGINEERING MATERIALS*, 2024, vol. 26, no. 20. ISSN 1438-1656. Dostupné na: <https://doi.org/10.1002/adem.202400217>, Registrované v: WOS
2. [1.1] JAMALI, Amir - MIRSALEHI, Seyyed Ehsan - YAGHOUBI, Ali - FARZADI, Ali. Effect of ex situ Al₃Zr intermetallic on cold and hot wear behaviors and mechanical properties of FSPed surface hybrid nanocomposite of high-strength aluminum matrix. In *ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING*, 2024, vol. 24, no. 3, art. no. 147. ISSN 1644-9665. Dostupné na: <https://doi.org/10.1007/s43452-024-00971-0>, Registrované v: WOS
3. [1.1] KIANI, Soheil - MIRSALEHI, Seyyed Ehsan. Friction stir additive manufacturing of B₄C and graphene reinforced aluminum matrix hybrid nanocomposites using consumable pins. In *JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T*, 2024, vol. 28, no., pp. 1094-1110. ISSN 2238-7854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2023.12.065>, Registrované v: WOS
4. [1.1] KUMAR, Ashish - SINGH, Virendra Pratap - SINGH, R. C. - CHAUDHARY, Rajiv - KUMAR, Deepak - MOURAD, Abdel-Hamid I. A review of aluminum metal matrix composites: fabrication route, reinforcements, microstructural, mechanical, and corrosion properties. In *JOURNAL OF MATERIALS SCIENCE*, 2024, vol. 59, no. 7, pp. 2644-2711. ISSN 0022-2461. Dostupné na: <https://doi.org/10.1007/s10853-024-09398-7>, Registrované v: WOS
5. [1.1] KUMAR, Dinesh - SINGH, Satnam. EFFECT OF GRAPHITE NANOPARTICLES ON MECHANICAL PROPERTIES OF FSPed ALUMINUM SURFACE COMPOSITE. In *COMPOSITES THEORY AND PRACTICE*, 2024, vol. 24, no. 1, pp. 33-38. ISSN 2084-6096. Dostupné na: <https://doi.org/10.62753/ctp.2024.05.1.1>, Registrované v: WOS
6. [1.1] KUMAR, R. Vinod - REDDAPPA, H. N. - CHANDRASHEKAR, A. -

PARUTI, Basavaraju. Stir-cast Al2024-based composite reinforced with boron carbide and graphene particles: Mechanical and dry sliding wear characteristics. In *ENGINEERING REPORTS*, 2024, vol. 6, no. 10. Dostupné na:

<https://doi.org/10.1002/eng2.12850>, Registrované v: WOS

7. [1.1] KUNDU, Subham - MONDAL, Subhas Chandra. Electro-thermal and mechanical property analysis of powder metallurgy processed, multi-stage ball milled aluminium-copper-multi walled carbon nanotube composite. In *ENGINEERING RESEARCH EXPRESS*, 2024, vol. 6, no. 2, art. no. 025574. ISSN 2631-8695. Dostupné na: <https://doi.org/10.1088/2631-8695/ad58a4>,

Registrované v: WOS

8. [1.1] SUVOROVA, Veronika - VOLODKO, Sergey - SUVOROV, Dmitrii - CHERNYSHIKHIN, Stanislav - NEPAPUSHEV, Andrey - KOROL, Artem - VOLKOVA, Lidiya - SOKOLOV, Pavel - KHORT, Alexander - MOSKOVSKIKH, Dmitry. Enhanced microstructure and mechanical properties of ZrN-reinforced AlSi10Mg aluminum matrix composite. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 10152. ISSN 2045-2322. Dostupné na:

<https://doi.org/10.1038/s41598-024-58614-6>, Registrované v: WOS

9. [1.1] YANG, Bin - YU, Xiaofeng - ZHAO, Dongchen - LU, Yuhang. Effect of Dynamic Recrystallization Mode on Texture Components and Hardness for Nano-SiC Particles Reinforced Aluminum Matrix Composites Prepared Via Friction Stir Processing. In *SILICON*, 2024, vol. 16, no. 11, pp. 4683-4689. ISSN 1876-990X. Dostupné na: <https://doi.org/10.1007/s12633-024-03033-5>, Registrované v: WOS

10. [1.1] ZHAO, Dongchen - YU, Xiaofeng - YANG, Bin - LU, Yuhang - XIU, Wencui. Electrochemical behavior and microstructural characterization of nano-SiC particles reinforced aluminum matrix composites prepared via friction stir processing. In *CERAMICS INTERNATIONAL*, 2024, vol. 50, no. 19, pp. 35525-35536. ISSN 0272-8842. Dostupné na:

<https://doi.org/10.1016/j.ceramint.2024.06.365>, Registrované v: WOS

ADCA418 KHODABAKHSHI, F. - SIMCHI, A. - KOKABI, A.H. - ŠVEC, Peter - SIMANČÍK, František - GERLICH, A.P. Effects of nanometric inclusions on the microstructural characteristics and strengthening of a friction-stir processed aluminum-magnesium alloy. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing*, 2015, vol. 642, p. 215-229. (2014: 2.567 - IF, Q1 - JCR, 2.235 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2015.06.081>

Citácie:

1. [1.1] DU, Sen - WANG, Mingtao - ZHANG, Shengen - LV, Zhengfeng - XU, Zhiyuan - LIU, Chen - WANG, Jingtao - LIU, Jun - LIU, Bo. Effect of micron-sized inclusions on the corrosion behavior of recycled Al-Zn-Mg-Cu alloy sheet. In *MATERIALS CHARACTERIZATION*, 2024, vol. 218, no., art. no. 114517. ISSN 1044-5803. Dostupné na: <https://doi.org/10.1016/j.matchar.2024.114517>,

Registrované v: WOS

2. [1.1] JIN, Yuqi - WANG, Tianhao - LIU, Tingkun - YANG, Teng - DOWDEN, Shelden - NEOGI, Arup - DAHOTRE, Narendra B. Gradient process parameter optimization in additive friction stir deposition of aluminum alloys. In *INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE*, 2024, vol. 195, no., art. no. 104113. ISSN 0890-6955. Dostupné na:

<https://doi.org/10.1016/j.ijmachtools.2023.104113>, Registrované v: WOS

3. [1.1] JIN, Yuqi - YANG, Teng - WANG, Tianhao - DOWDEN, Shelden - DAHOTRE, Narendra B. - NEOGI, Arup. Additive friction stir deposition induced stress ripples in aluminum alloy. In *INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY*, 2024, vol. 133, no. 5-6, pp.

2435-2443. ISSN 0268-3768. Dostupné na: <https://doi.org/10.1007/s00170-024-13900-5>, Registrované v: WOS

4. [1.1] WANG, Shuwen - YUAN, Tao - LIU, Linao - WANG, Lei - JIANG, Xiaoqing - SHAN, He - CHEN, Shujun - ZHAO, Pengjing. Microstructure and strengthening mechanism of TIG welded joint of AZ31 alloy based on FSP technique. In *JOURNAL OF MANUFACTURING PROCESSES*, 2024, vol. 124, no., pp. 551-565. ISSN 1526-6125. Dostupné na:

<https://doi.org/10.1016/j.jmapro.2024.06.045>, Registrované v: WOS

5. [1.2] GHINOUS, Rachida - MALKI, Mounia - ESSADIQI, Elhachmi - FAQIR, Mustapha. Material science perspectives in composite hybridization. In *Utilizing Friction Stir Techniques for Composite Hybridization*, 2024-07-24, pp. 33-50. ISBN [9798369339930, 9798369339947]. Dostupné na:

<https://doi.org/10.4018/979-8-3693-3993-0.ch003>, Registrované v: SCOPUS

6. [1.2] SANDHU, Kulbir Singh - SINGH, Hazoor - SINGH, Gurpreet. Implications of nanomaterials reinforcement along with sub-zero temperature cooling on microstructure and mechanical properties of friction stir processed Al7075 alloy. In *Journal of Adhesion Science and Technology*, 2024-01-01, pp. ISSN 01694243. Dostupné na: <https://doi.org/10.1080/01694243.2024.2409938>, Registrované v: SCOPUS

ADCA419 KHODABAKHSI, F.** - GERLICH, A.P. - ŠVEC, Peter. Reactive friction-stir processing of an Al-Mg alloy with introducing multi-walled carbon nano-tubes (MW-CNTs): Microstructural characteristics and mechanical properties. In *Materials Characterization*, 2017, vol. 131, p. 359-373. (2016: 2.714 - IF, Q1 - JCR, 1.222 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1044-5803. Dostupné na: <https://doi.org/10.1016/j.matchar.2017.07.027>

Citácie:

1. [1.1] LU, Yuhang - YU, Xiaofeng - SUO, Zhongyuan - LI, Tingqu - LIU, Xiangling - XIU, Wencui. Effect of nano-SiC particles on grain orientation and hardness of friction stir processed aluminum matrix composite. In *MATERIALS LETTERS*, 2024, vol. 362, no., art. no. 136219. ISSN 0167-577X. Dostupné na: <https://doi.org/10.1016/j.matlet.2024.136219>, Registrované v: WOS

2. [1.1] YANG, Bin - YU, Xiaofeng - ZHAO, Dongchen - LU, Yuhang. Effect of Dynamic Recrystallization Mode on Texture Components and Hardness for Nano-SiC Particles Reinforced Aluminum Matrix Composites Prepared Via Friction Stir Processing. In *SILICON*, 2024, vol. 16, no. 11, pp. 4683-4689. ISSN 1876-990X. Dostupné na: <https://doi.org/10.1007/s12633-024-03033-5>, Registrované v: WOS

3. [1.1] ZHANG, Cuicui - BAI, Jing - SUN, Yuhong - XIU, Wencui. Effect of friction stir processing on grain orientation evolution and coincidence site lattice boundaries of Al6061. In *MATERIALS LETTERS*, 2024, vol. 354, no., art. no. 135326. ISSN 0167-577X. Dostupné na:

<https://doi.org/10.1016/j.matlet.2023.135326>, Registrované v: WOS

4. [1.1] ZHAO, Dongchen - YU, Xiaofeng - YANG, Bin - LU, Yuhang - XIU, Wencui. Electrochemical behavior and microstructural characterization of nano-SiC particles reinforced aluminum matrix composites prepared via friction stir processing. In *CERAMICS INTERNATIONAL*, 2024, vol. 50, no. 19, pp. 35525-35536. ISSN 0272-8842. Dostupné na:

<https://doi.org/10.1016/j.ceramint.2024.06.365>, Registrované v: WOS

5. [1.2] SANDHU, Kulbir Singh - SINGH, Hazoor - SINGH, Gurpreet. Implications of nanomaterials reinforcement along with sub-zero temperature cooling on microstructure and mechanical properties of friction stir processed Al7075 alloy. In *Journal of Adhesion Science and Technology*, 2024-01-01, pp. ISSN 01694243. Dostupné na: <https://doi.org/10.1080/01694243.2024.2409938>,

Registrované v: SCOPUS

6. [1.2] YADAV, L. K. - MISRA, J. P. - TYAGI, R. Solid-state Metal Additive Manufacturing Process: A Systematic Review. In Additive Manufacturing for Advanced Applications Technologies Challenges and Case Studies, 2024-01-01, pp. 126-146. ISBN [9781032480947, 9781040035689]. Dostupné na: <https://doi.org/10.1201/9781003484325-6>, Registrované v: SCOPUS

ADCA420

KHODABAKHSHI, F.** - ARAB, S.M. - ŠVEC, Peter - GERLICH, A.P.

Fabrication of a new Al-Mg/graphene nanocomposite by multi-pass friction-stir processing: Dispersion, microstructure, stability, and strengthening. In Materials Characterization, 2017, vol. 132, p. 92-107. (2016: 2.714 - IF, Q1 - JCR, 1.222 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1044-5803. Dostupné na: <https://doi.org/10.1016/j.matchar.2017.08.009>

Citácie:

1. [1.1] ABDELHADY, Saleh S. - ELBADAWI, Rehab E. - ZOALFAKAR, Said H. Evaluation the effect of multi-pass friction stir processing on the wear, mechanical properties, and microstructure of the AA1050/ZrO₂ surface nanocomposite. In DISCOVER APPLIED SCIENCES, 2024, vol. 6, no. 10, art. no. 498. Dostupné na: <https://doi.org/10.1007/s42452-024-06137-0>, Registrované v: WOS

2. [1.1] BASAK, Soumyabrata - YOO, Han-Gyeol - ANAMAN, Sam Yaw - GUHA, Puspendu - KWON, Deok-Hwang - SHIN, Eun-Joo - HONG, SungTae - CHO, Hoon-Hwe. Strength-ductility synergy in a graphene oxide reinforced aluminum matrix composite made by friction stir processing. In JOURNAL OF ALLOYS AND COMPOUNDS, 2024, vol. 976, no., art. no. 173344. ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2023.173344>, Registrované v: WOS

3. [1.1] CHEN, Gaohong - YU, Mei - DONG, Hongrui - LIU, Jianhua. Experimental Investigation into the Preparation Process of Graphene-Reinforced Aluminum Matrix Composites by Friction Stirring Processing. In MATERIALS, 2024, vol. 17, no. 16, art. no. 3918. Dostupné na: <https://doi.org/10.3390/ma17163918>, Registrované v: WOS

4. [1.1] CHOUDHARY, Sumit - GAUR, Vidit. On reinforcing the friction stir weld joints of AA5086-H116 using the plasma spray coatings. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 2024, vol. 901, no., art. no. 146578. ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2024.146578>, Registrované v: WOS

5. [1.1] HOSSEINI, Akbar - AREZOU DAR, Alireza Fallahi. Improving mechanical properties of FSWed AA6061-T6 joint by controlling microstructural changes through utilization of stationary shoulder tool in presence of Al₂O₃ nanoparticles and external cooling. In INTERNATIONAL JOURNAL OF PRECISION ENGINEERING AND MANUFACTURING-GREEN TECHNOLOGY, 2024, vol. 11, no. 4, pp. 1163-1191. ISSN 2288-6206. Dostupné na: <https://doi.org/10.1007/s40684-023-00583-8>, Registrované v: WOS

6. [1.1] JOSEPH, E. Jenson - MUTHUKRISHNAN, D. - RAGHAV, G. R. - NAGARAJAN, K. J. - KUMAR, R. Ashok. Optimization of Multiresponse Process Parameters in Friction Stir Processing of AA6063/n-Graphene Composites by Taguchi's Grey Relational Analysis. In METALLOPHYSICS AND ADVANCED TECHNOLOGIES, 2024, vol. 46, no. 5. ISSN 1024-1809. Dostupné na: <https://doi.org/10.15407/mfint.46.05.0453>, Registrované v: WOS

7. [1.1] KUMAR, Ashish - SINGH, Virendra Pratap - SINGH, R. C. - CHAUDHARY, Rajiv - KUMAR, Deepak - MOURAD, Abdel-Hamid I. A review of aluminum metal matrix composites: fabrication route, reinforcements,

microstructural, mechanical, and corrosion properties. In *JOURNAL OF MATERIALS SCIENCE*, 2024, vol. 59, no. 7, pp. 2644-2711. ISSN 0022-2461. Dostupné na: <https://doi.org/10.1007/s10853-024-09398-7>, Registrované v: WOS

8. [1.1] LESZCZYNSKA-MADEJ, Beata - MADEJ, Marcin - WASIK, Anna - WEGLOWSKA, Aleksandra. Microstructural homogenization and mechanical enhancement of aluminum matrix composites via multi-pass friction stir processing with SiC reinforcements. In *INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY*, 2024, vol. 134, no. 3-4, pp. 2035-2050. ISSN 0268-3768. Dostupné na: <https://doi.org/10.1007/s00170-024-14252-w>, Registrované v: WOS

9. [1.1] LIU, F. C. - FENG, A. H. - PEI, X. - HOVANSKI, Y. - MISHRA, R. S. - MA, Z. Y. Friction stir based welding, processing, extrusion and additive manufacturing. In *PROGRESS IN MATERIALS SCIENCE*, 2024, vol. 146, no., art. no. 101330. ISSN 0079-6425. Dostupné na: <https://doi.org/10.1016/j.pmatsci.2024.101330>, Registrované v: WOS

10. [1.1] MOHAN, Ahmed Esmael - SAJURI, Zainuddin - BAGHDADI, Amir Hossein - JAMADON, Nashrah Hani - ABBASI, Mahmoud. Influences of graphene nanoplatelet addition and pin lengths on the microstructure and mechanical properties of 7075 aluminum alloy under friction stir spot welding. In *JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T*, 2024, vol. 31, no., pp. 3436-3452. ISSN 2238-7854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2024.07.065>, Registrované v: WOS

11. [1.1] POURALIAKBAR, Hesam - JANDAGHI, Mohammad Reza - GHAFFARI, Gholamreza - FALLAH, Vahid - MOVERARE, Johan - KHALAJ, Gholamreza. Friction stir processing of AA6061-T6/graphene nanocomposites: Unraveling the influence of tool geometry, rotation, and advancing speed on microstructure and mechanical properties. In *JOURNAL OF ALLOYS AND COMPOUNDS*, 2024, vol. 1002, no., art. no. 175400. ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.175400>, Registrované v: WOS

12. [1.1] QAMAR, Sabih - RAMZAN, Naveed - ALEEM, Waqas. Graphene dispersion, functionalization techniques and applications: A review. In *SYNTHETIC METALS*, 2024, vol. 307, no., art. no. 117697. ISSN 0379-6779. Dostupné na: <https://doi.org/10.1016/j.synthmet.2024.117697>, Registrované v: WOS

13. [1.1] SUZER, Ilayda - HAYIRCI, Sena Burcu - BOYACI, Ege - DENIZ, Ayse - MERTDINC-ULKUSEVEN, Siddika - OVECOGLU, M. Lutfi - GOKCE, Hasan - AGAOGULLARI, Duygu. Graphene nanoplatelet reinforced Al-based composites prepared from recycled powders via mechanical alloying and pressureless sintering. In *DIAMOND AND RELATED MATERIALS*, 2024, vol. 149, no., art. no. 111552. ISSN 0925-9635. Dostupné na: <https://doi.org/10.1016/j.diamond.2024.111552>, Registrované v: WOS

14. [1.1] VISHWAKARMA, Ranjan Kumar - PAL, Surjya K. - CHAKLADAR, N. D. Effect of Carbon Fibre Reinforcement on an Aluminium Metal Matrix Composite Joint Through Upward Friction Stir Processing. In *METALS AND MATERIALS INTERNATIONAL*, 2024, vol. 30, no. 11, pp. 3107-3126. ISSN 1598-9623. Dostupné na: <https://doi.org/10.1007/s12540-024-01690-0>, Registrované v: WOS

15. [1.1] WANG, Hongding - ZHENG, Haitao - HU, Mingshuai - MA, Zhonglei - LIU, Hong. Synergistic effect of Al₂O₃-decorated reduced graphene oxide on microstructure and mechanical properties of 6061 aluminium alloy. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 16213. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-67004-x>, Registrované v: WOS

16. [1.1] WU, Renhao - CHOI, Yeon Taek - WU, Qingfeng - LIU, Xinxi - AN, Dayong - LI, Tianle - LI, Meng - KIM, Hyoung Seop. Enhanced strength-ductility synergy in a gradient pseudo-precipitates heterostructured Al-2.5%Mg alloy: Design, fabrication, and deformation mechanism. In JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY, 2024, vol. 196, no., pp. 88-100. ISSN 1005-0302.

Dostupné na: <https://doi.org/10.1016/j.jmst.2024.01.073>, Registrované v: WOS

17. [1.2] ANSARI, Abdul Jabbar - ANAS, Mohd. Effect of Varying Volume Fraction of Reinforcement on the Microstructure, Hardness and Tribological Behaviour of Aluminium Metal Matrix Composites Developed Through FSP Technique. In Journal of the Institution of Engineers India Series D, 2024-04-01, 105, 1, pp. 263-273. ISSN 22502122. Dostupné na:

<https://doi.org/10.1007/s40033-023-00476-9>, Registrované v: SCOPUS

18. [1.2] VERMA, Arpit - YADAV, Bal Chandra. Features of preparing metal oxide nanocomposites: General consideration. In Complex and Composite Metal Oxides for Gas Voc and Humidity Sensors Volume 2 Technology and New Trends, 2024-01-01, pp. 3-25. ISBN [9780323954778, 9780323954761]. Dostupné na:

<https://doi.org/10.1016/B978-0-323-95476-1.00023-X>, Registrované v: SCOPUS

ADCA421 KHODABAKHSHI, F. - SIMCHI, A. - KOKABI, A.H. - NOSKO, Martin - SIMANČÍK, František - ŠVEC, Peter. Microstructure and texture development during friction stir processing of Al-Mg alloy sheets with TiO₂ nanoparticles. In Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing, 2014, vol. 605, no. 5, p. 108-118. (2013: 2.409 - IF, Q1 - JCR, 1.879 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2014.03.008>

Citácie:

1. [1.1] JAMALI, A. - MIRSALEHI, S.E. - YAGHOUBI, A. - FARZADI, A. Effect of ex situ Al₃Zr intermetallic on cold and hot wear behaviors and mechanical properties of FSPed surface hybrid nanocomposite of high-strength aluminum matrix. In ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING. ISSN 1644-9665, MAY 14 2024, vol. 24, no. 3. Dostupné na:

<https://doi.org/10.1007/s43452-024-00971-0>, Registrované v: WOS

2. [1.1] KARMIRIS-OBRAATANSKI, P. - PAPANTONIOU, I.G. - LESZCZYNSKA-MADEJ, B. Microstructure, mechanical and tribological properties of AA5083-TiO₂ nanocomposite by multi-pass friction stir processing. In ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING. ISSN 1644-9665, JUL 31 2024, vol. 24, no. 4. Dostupné na: <https://doi.org/10.1007/s43452-024-01025-1>, Registrované v: WOS

3. [1.1] KIANI, Soheil - MIRSALEHI, Seyyed Ehsan. Friction stir additive manufacturing of B₄C and graphene reinforced aluminum matrix hybrid nanocomposites using consumable pins. In JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, 2024, vol. 28, no., pp. 1094-1110. ISSN 2238-7854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2023.12.065>, Registrované v: WOS

4. [1.1] LIU, F. C. - FENG, A. H. - PEI, X. - HOVANSKI, Y. - MISHRA, R. S. - MA, Z. Y. Friction stir based welding, processing, extrusion and additive manufacturing. In PROGRESS IN MATERIALS SCIENCE, 2024, vol. 146, no., art. no. 101330. ISSN 0079-6425. Dostupné na:

<https://doi.org/10.1016/j.pmatsci.2024.101330>, Registrované v: WOS

5. [1.1] QIN, Jining. Partition the total energy of Al₃Ti to characterize the Al₃Ti/Al interface properties: a first-principles study. In SURFACE SCIENCE, 2024, vol. 739, no., art. no. 122398. ISSN 0039-6028. Dostupné na:

<https://doi.org/10.1016/j.susc.2023.122398>, Registrované v: WOS

6. [1.1] YANG, B. - YU, X.F. - ZHAO, D.C. - LU, Y.H. *Effect of Dynamic Recrystallization Mode on Texture Components and Hardness for Nano-SiC Particles Reinforced Aluminum Matrix Composites Prepared Via Friction Stir Processing*. In *SILICON*. ISSN 1876-990X, JUL 2024, vol. 16, no. 11, p. 4683-4689. Dostupné na: <https://doi.org/10.1007/s12633-024-03033-5>, Registrované v: WOS
7. [1.2] JHA, Kishor Kumar - KESHARWANI, Rahul - IMAM, Murshid. *Numerical and Experimental Study on the Effect of Tool Pin Profile of Friction Stir Additive Manufactured AA6061/AA7075 Joints*. In *Springer Proceedings in Materials*, 2024-01-01, 52, pp. 85-101. ISSN 26623161. Dostupné na: https://doi.org/10.1007/978-981-97-5959-0_6, Registrované v: SCOPUS
8. [1.2] KUMAR, Harikishor - PRASAD, Rabindra - KUMAR, Parshant - BHANUPRAKASH, L. *Particles reinforcement via friction stir processing (FSP): A Review*. In *Journal of Physics Conference Series*, 2024-01-01, 2837, 1, pp. ISSN 17426588. Dostupné na: <https://doi.org/10.1088/1742-6596/2837/1/012069>, Registrované v: SCOPUS
9. [1.2] KUMAR, Harikishor - PRASAD, Rabindra - KUMAR, Parshant - BHANUPRAKASH, Lokasani. *Nano Particles Reinforcements Via Friction Stir Processing (FSP)*. In *Friction Stir Spot Welding Metallurgical Mechanical and Tribological Properties*, 2024-01-01, pp. 278-294. ISBN [9781032558004, 9781040045299]. Dostupné na: <https://doi.org/10.1201/9781003432289-16>, Registrované v: SCOPUS

ADCA422

KHODABAKHSHI, Farzad - SIMCHI, Abdolreza - KOKABI, Amirhossein - NOSKO, Martin - ŠVEC, Peter. *Strain rate sensitivity, work hardening, and fracture behavior of an Al-Mg TiO₂ nanocomposite Prepared by friction stir processing*. In *Metallurgical and materials transactions A : physical metallurgy and materials science*, 2014, vol. 45A, no. 9, p. 4073-4088. (2013: 1.730 - IF, Q1 - JCR, 1.481 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 1073-5623. Dostupné na: <https://doi.org/10.1007/s11661-014-2330-1>

Citácie:

1. [1.1] KARMIRIS-OBROTANSKI, P. - PAPANTONIOU, I.G. - LESZCZYNSKA-MADEJ, B. *Microstructure, mechanical and tribological properties of AA5083-TiO₂ nanocomposite by multi-pass friction stir processing*. In *ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING*. ISSN 1644-9665, JUL 31 2024, vol. 24, no. 4. Dostupné na: <https://doi.org/10.1007/s43452-024-01025-1>, Registrované v: WOS
2. [1.1] KAYA, N. - CETINKAYA, C. - KARAKOC, H. - ADA, H. *Effect of process parameters of Al5083/SiC surface composites fabricated by FSP on microstructure, mechanical properties and wear behaviors*. In *MATERIALS CHEMISTRY AND PHYSICS*. ISSN 0254-0584, MAR 1 2024, vol. 315. Dostupné na: <https://doi.org/10.1016/j.matchemphys.2024.128991>, Registrované v: WOS
3. [1.1] KAYA, N. - ÇETINKAYA, C. - ADA, H. *Effect of theoretical volume fraction (TVF) of reinforcements on Al5083/ SiC and Al5083/ZrB₂ surface composites produced by friction stir processing*. In *MATERIALS CHEMISTRY AND PHYSICS*. ISSN 0254-0584, DEC 1 2024, vol. 328. Dostupné na: <https://doi.org/10.1016/j.matchemphys.2024.130012>, Registrované v: WOS
4. [1.1] LIU, F. - FENG, A. - PEI, X. - HOVANSKI, Y. - MISHRA, R.S. - MA, Z.Y. *Friction stir based welding, processing, extrusion and additive manufacturing*. In *PROGRESS IN MATERIALS SCIENCE*. ISSN 0079-6425, DEC 2024, vol. 146. Dostupné na: <https://doi.org/10.1016/j.pmatsci.2024.101330>, Registrované v: WOS
5. [1.2] SAHOO, Baidehish - PAUL, Jinu - SHARMA, Abhishek. *Surface*

Composite Fabrication Using FSP. In Friction Stir Welding and Processing Fundamentals to Advancements, 2024-01-01, pp. 67-91. ISBN [9781394169436, 9781394169467]. Dostupné na: <https://doi.org/10.1002/9781394169467.ch6>, Registrované v: SCOPUS

- ADCA423 KHORASANI, F.* - EMAMY, M.* - MALEKAN, M.* - MIRZADEH, H.* - POURBAHARI, B.* - KRAJŇÁK, Tomáš* - MINARIK, P.*. Enhancement of the microstructure and elevated temperature mechanical properties of as-cast Mg-Al₂Ca-Mg₂Ca in-situ composite by hot extrusion. In Materials Characterization, 2019, vol. 147, p. 155-164. (2018: 3.220 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1044-5803. Dostupné na: <https://doi.org/10.1016/j.matchar.2018.10.018>

Citácie:

1. [1.1] CHEN, Yiwen - WANG, Jingya - ZHENG, Weisen - LI, Quan - YU, Mingdi - YING, Tao - ZENG, Xiaoqin. CALPHAD-guided design of Mg-Y-Al alloy with improved strength and ductility via regulating the LPSO phase. In ACTA MATERIALIA, 2024, vol. 263, no., art. no. 119521. ISSN 1359-6454. Dostupné na: <https://doi.org/10.1016/j.actamat.2023.119521>, Registrované v: WOS
2. [1.1] JIN, Shuaishuai - YOU, Zhiyong - HAN, Peide - JIANG, Aoxue - SUN, Chunle - WANG, Libo - ZHANG, Teng - LIU, Shilong. First-principles study of the Al₂Ca/Mg 2 Ca/Mg interface. In COMPUTATIONAL MATERIALS SCIENCE, 2024, vol. 244, no., art. no. 113235. ISSN 0927-0256. Dostupné na: <https://doi.org/10.1016/j.commatsci.2024.113235>, Registrované v: WOS

- ADCA424 KHOSHGHADAM-PIREYOUSSEFAN, Mohammad - RAHMANIFARD, Roohollah** - OROVČÍK, Lubomír - ŠVEC, Peter - KLEMM, Volker. Application of a novel method for fabrication of graphene reinforced aluminum matrix nanocomposites: Synthesis, microstructure, and mechanical properties. In Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing, 2020, vol. 772, no. 13, art. no. 138820. (2019: 4.652 - IF, Q1 - JCR, 1.700 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2019.138820>

Citácie:

1. [1.1] BOBYLEV, S.V. - SHEINERMAN, A.G. - LI, X.T. - ZHANG, Z.J. Modeling of strength and ductility of metal alloy/graphene composites containing precipitates. In INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES. ISSN 0020-7683, JUN 15 2024, vol. 296. Dostupné na: <https://doi.org/10.1016/j.ijsolstr.2024.112843>, Registrované v: WOS
2. [1.1] CHEN, Y.H. - XU, H.Y. - JIANG, B. - WANG, Y. - HU, M.L. - JI, Z.S. Microstructure, mechanical and tribological properties of APC/Al laminated composites prepared by hydrothermal carbon adsorption on plates. In TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA. ISSN 1003-6326, JAN 2024, vol. 36, no. 1, p. 108-121. Dostupné na: [https://doi.org/10.1016/S1003-6326\(23\)66385-X](https://doi.org/10.1016/S1003-6326(23)66385-X), Registrované v: WOS
3. [1.1] HANG, Z.Y. - NI, Z. - YANG, J.L. - FAN, Y.C. - FENG, C. - WANG, S.G. Nonlinear Vibration of FG-GNPRC Dielectric Beam with Kelvin-Voigt Damping in Thermal Environment. In INTERNATIONAL JOURNAL OF STRUCTURAL STABILITY AND DYNAMICS. ISSN 0219-4554, JUN 30 2024, vol. 24, no. 12. Dostupné na: <https://doi.org/10.1142/S021945542450130X>, Registrované v: WOS
4. [1.1] KHAJEH, R. - JAVIDANI, M. - MOFARREHI, M. - CHEN, X.G. - AHMED, M. - FARZANEH, A. - HEIDARZADEH, A. Enhancing microstructure and mechanical properties of laser powder bed fusion-fabricated AlSi10Mg alloy through tailored friction stir processing and post-heat treatment. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES

- MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, JAN 2024, vol. 889. Dostupné na: <https://doi.org/10.1016/j.msea.2023.145855>, Registrované v: WOS
5. [1.1] KHAJEH, Rasoul - JAVIDANI, Mousa - MOFARREHI, Mohammadreza - CHEN, X.Grant - AHMED, Mohamed - FARZANEH, Amir - HEIDARZADEH, Akbar. Enhancing microstructure and mechanical properties of laser powder bed fusion-fabricated AlSi10Mg alloy through tailored friction stir processing and post-heat treatment. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 2024, vol. 889, no., art. no. 145855. ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2023.145855>, Registrované v: WOS
6. [1.1] KOTTEDA, T.K. - KUMAR, M. - KUMAR, P. - GUPTA, A. - KALIDINDI, S.R.R. Mechanical and Metallurgical behaviour of Aluminum/graphene nanocomposites in Fuselage applications. In COGENT ENGINEERING. ISSN 2331-1916, DEC 31 2024, vol. 11, no. 1. Dostupné na: <https://doi.org/10.1080/23311916.2024.2324030>, Registrované v: WOS
7. [1.1] LIU, D.W. - YIN, Z.B. - GUO, F.Z. - HONG, D.B. - YUAN, J.T. Densification, microstructure and properties of α/β -SiAlON ceramic reinforced by SiC whiskers. In CERAMICS INTERNATIONAL. ISSN 0272-8842, NOV 1 2024, vol. 50, no. 21, B, p. 42755-42765. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.08.121>, Registrované v: WOS
8. [1.1] VEERAMALLU, K. - KRISHNA, A.G. INVESTIGATION OF GNP EFFECT ON MECHANICAL AND MORPHOLOGICAL CHARACTERISTICS OF LIQUID PHASE SINTERED SS316L NANOCOMPOSITES PROCESSED VIA MECHANICAL ALLOYING AND PRESSURELESS SINTERING. In COMPOSITES THEORY AND PRACTICE. ISSN 2084-6096, 2024, vol. 24, no. 2, p. 95-103. Dostupné na: <https://doi.org/10.62753/ctp.2024.03.2.2>, Registrované v: WOS
9. [1.1] WANG, Y.L. - YANG, F.Z. - WU, T.B. - HUANG, G.J. Systematic overview of the preparation, interface characteristics, strengthening mechanisms, and challenges of graphene-reinforced Al matrix composites. In JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T. ISSN 2238-7854, NOV-DEC 2024, vol. 33, p. 7709-7739. Dostupné na: <https://doi.org/10.1016/j.jmrt.2024.11.152>, Registrované v: WOS
10. [1.1] YANG, B. - LIU, K.D. - WANG, A.Q. - SU, B. - XIE, J.P. - XIN, Y.L. Effect of heat treatment on the interface and property enhancement of reduced graphene oxide/2024Al matrix composites. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, MAY 2024, vol. 59, no. 20, p. 8810-8830. Dostupné na: <https://doi.org/10.1007/s10853-024-09735-w>, Registrované v: WOS
11. [1.1] ZHANG, Y.B. - HUANG, J.R. - WANG, B.H. - LIU, J.J. - XIE, S. - LI, T.J. - WANG, T.M. Improving the graphene distribution and mechanical properties of graphene/Al composites by aminopropyl triethoxysilane modification. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, JUN 2024, vol. 902. Dostupné na: <https://doi.org/10.1016/j.msea.2024.146624>, Registrované v: WOS
12. [1.1] ZHOU, T. - LEI, M. - XU, J. Recent progress in the development and properties of aluminum matrix composites reinforced with graphene: A review. In MATERIALS TODAY SUSTAINABILITY. ISSN 2589-2347, MAR 2024, vol. 25. Dostupné na: <https://doi.org/10.1016/j.mtsust.2024.100674>, Registrované v: WOS
13. [1.1] ZURNANSYAH - JAYANTI, P.D. - MAHARDHIKA, L.J. - KUSUMAH, H.P. - ARDIYANTI, H. - WIBOWO, N.A. - ISTIQOMAH, N.I. - ASRI, N.S. - ANGEL, J. - SUHARYADI, E. Real-time biomolecule detection using GMR chip-

based sensor with green-synthesized $\text{Fe}_3\text{O}_4/\text{rGO}$ nanocomposites as magnetic labels. In *SENSORS AND ACTUATORS A-PHYSICAL*. ISSN 0924-4247, SEP 1 2024, vol. 375. Dostupné na: <https://doi.org/10.1016/j.sna.2024.115493>, Registrované v: WOS

14. [1.2] LI, Xiaoliang - LI, Yuhua - DONG, Zhengxue - WAN, Zihan - REN, Kecong - DENG, Hailiang - YANG, Kang - WU, Cao. Reviews on formation and tailoring of interfacial Al_4C_3 phase in carbon/aluminum composites. In *Zhongguo Youse Jinshu Xuebao Chinese Journal of Nonferrous Metals*, 2024-05-01, 34, 5, pp. 1453-1474. ISSN 10040609. Dostupné na:

<https://doi.org/10.11817/j.ysxb.1004.0609.2023-44510>, Registrované v: SCOPUS

15. [1.2] MSOMI, Velaphi. Fabrication of Metal Matrix Composites using the Submerged Friction Stir Processing Technique: A Recent Progress Review. In *Engineering Technology and Applied Science Research*, 2024-10-01, 14, 5, pp. 17256-17260. ISSN 22414487. Dostupné na: <https://doi.org/10.48084/etasr.8255>, Registrované v: SCOPUS

16. [1.2] WANG, Hong Ding - HU, Ming Shuai - LIU, Hong. Effect of warm rolling and T6 heat treatment on mechanical and friction properties of $\text{Al}_2\text{O}_3/\text{RGO}$ particle reinforced 6061 aluminum matrix composites. In *Cailiao Rechuli Xuebao Transactions of Materials and Heat Treatment*, 2024-12-01, 45, 12, pp. 20-30. ISSN 10096264. Dostupné na: <https://doi.org/10.13289/j.issn.1009-6264.2024-0050>, Registrované v: SCOPUS

17. [1.2] YANG, Shuai - GAO, Xin - LI, Wentao - DAI, Yanjin - ZHANG, Jiahao - ZHANG, Xiaohua - YUE, Hongyan. Effects of the graphene content on mechanical properties and corrosion resistance of aluminum matrix composite. In *Journal of Materials Research and Technology*, 2024-01-01, 28, pp. 1900-1906. ISSN 22387854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2023.12.059>, Registrované v: SCOPUS

18. [1.2] ZAKAULLA, Mohamed - PASHA, Younus. Optimization of mechanical properties of $\text{Al}_7150/\text{Si}_3\text{N}_4/\text{C}$ composites using artificial neural network. In *International Journal of Advances in Applied Sciences*, 2024-09-01, 13, 3, pp. 556-565. ISSN 22528814. Dostupné na:

<https://doi.org/10.11591/ijaas.v13.i3.pp556-565>, Registrované v: SCOPUS

ADCA425 KIM, M.S. - BUŽEK, Vladimír. Schrodinger-cat states at finite temperature-influence of a finite-temperature heat bath on quantum interferences. In *Physical Review A*, 1992, vol. 46, no. 7, p. 4239-4251. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.46.4239>

Citácie:

1. [1.1] AKHTAR, Naeem - YANG, Xiaosen - ASJAD, Muhammad - PENG, Jia-Xin - XIANLONG, Gao - CHEN, Yuanping. Compasslike states in a thermal reservoir and fragility of their nonclassical features. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 5, art. no. 053718. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.109.053718>, Registrované v: WOS

ADCA426 KIM, M.S. - BUŽEK, Vladimír. Photon statistics of superposition states in phase-sensitive reservoirs. In *Physical Review A*, 1993, vol. 47, no. 1, p. 610-619. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.47.610>

Citácie:

1. [1.1] AKHTAR, Naeem - YANG, Xiaosen - ASJAD, Muhammad - PENG, Jia-Xin - XIANLONG, Gao - CHEN, Yuanping. Compasslike states in a thermal reservoir and fragility of their nonclassical features. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 5, art. no. 053718. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.109.053718>, Registrované v: WOS

ADCA427 KIM, M.S. - SON, W. - BUŽEK, Vladimír - KNIGHT, P.L. Entanglement by a beam

splitter: Nonclassicality as a prerequisite for entanglement. In *Physical Review A*, 2002, vol. 65, no. 3, art. no. 032323. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.65.032323>

Citácie:

1. [1.1] ALVES, Gabriel O. - SANTOS, Marcelo A. F. - LANDI, Gabriel T. Collisional thermometry for Gaussian systems. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 5, art. no. 052421. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.052421>, Registrované v: WOS
2. [1.1] AZUMA, Hiroo - MUNRO, William J. - NEMOTO, Kae. Heralded single-photon source based on superpositions of squeezed states. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 5, art. no. 053711. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.053711>, Registrované v: WOS
3. [1.1] BAZRAFKAN, M. R. - NAHVIFARD, E. Analytical and Phase Space Description of "Near" States. In *INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 9, art. no. 236. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05766-w>, Registrované v: WOS
4. [1.1] CARNEY, Daniel - DOMCKE, Valerie - RODD, Nicholas L. Graviton detection and the quantization of gravity. In *PHYSICAL REVIEW D*, 2024, vol. 109, no. 4, art. no. 044009. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.109.044009>, Registrované v: WOS
5. [1.1] DI FIDIO, Christian - ARES, Laura - SPERLING, Jan. Quantum walks and entanglement in cavity networks. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 1, art. no. 013705. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.013705>, Registrované v: WOS
6. [1.1] DIEZ, Guillermo - ARES, Laura - LUIS, Alfredo. Coherence via reiterated beam splitting. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 6, art. no. 063706. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.063706>, Registrované v: WOS
7. [1.1] FORSH, P. A. - STREMOUKHOV, S. Yu - FROLOVA, A. S. - KHABAROVA, K. Yu - KOLACHEVSKY, N. N. Quantum memristors: a new approach to neuromorphic computing. In *PHYSICS-USPEKHI*, 2024, vol. 67, no. 9, pp. 855-865. ISSN 1063-7869. Dostupné na: <https://doi.org/10.3367/UFNe.2024.06.039698>, Registrované v: WOS
8. [1.1] GERRY, Christopher C. - BIRRITTELLA, Richard J. - ALSING, Paul M. - MIMI, Jihane - KNIGHT, Peter L. Non-classicality and the effect of one photon. In *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES*, 2024, vol. 382, no. 2287, art. no. 20230331. ISSN 1364-503X. Dostupné na: <https://doi.org/10.1098/rsta.2023.0331>, Registrované v: WOS
9. [1.1] HONG, Seongjin. Quantum enhanced multiple transmission estimation with a bright squeezed light field. In *JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS*, 2024, vol. 41, no. 11, pp. 2495-2501. ISSN 0740-3224. Dostupné na: <https://doi.org/10.1364/JOSAB.534086>, Registrované v: WOS
10. [1.1] HUGHES, Paul R. B. - DIGNAM, Marc M. Analytic solution to the nonlinear generation of squeezed states in a thermal bath. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 6, art. no. 063718. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.063718>, Registrované v: WOS
11. [1.1] JABRI, H. - ELEUCH, H. Light squeezing enhancement by coupling nonlinear optical cavities. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 7753. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-58447-3>, Registrované v: WOS

12. [1.1] JAVED, Sunia - IQBAL, Shahid. Quantifying Nonclassicality of $su(1,1)$ Squeezed States by Quantum Fisher Information. In *JOURNAL OF RUSSIAN LASER RESEARCH*, 2024, vol. 45, no. 3, pp. 258-267. ISSN 1071-2836. Dostupné na: <https://doi.org/10.1007/s10946-024-10210-9>, Registrované v: WOS
13. [1.1] LI, Minghui - WANG, Wei - TANG, Zikang - TAN, Hou. Entanglement and classical nonseparability convertible from orthogonal polarizations. In *OPTICS EXPRESS*, 2024, vol. 32, no. 17, pp. 30114-30123. ISSN 1094-4087. Dostupné na: <https://doi.org/10.1364/OE.534088>, Registrované v: WOS
14. [1.1] LIU, Jiru - GE, Wenchao - ZUBAIRY, M. Suhail. Classical-Nonclassical Polarity of Gaussian States. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 24, art. no. 240201. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.240201>, Registrované v: WOS
15. [1.1] MISHRA, Karunesh K. - ATAMAN, Stefan. Optimizing States for Quantum-Enhanced Interferometry: Two Case Studies. In *31ST ANNUAL INTERNATIONAL LASER PHYSICS WORKSHOP*, 2024, vol. 2894, no., art. no. 012016. ISSN 1742-6588. Dostupné na: <https://doi.org/10.1088/1742-6596/2894/1/012016>, Registrované v: WOS
16. [1.1] ROHITH, M. - ANUPAMA, S. - SUDHEESH, C. Wave packet dynamics of entangled q -deformed states. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 7, art. no. 075111. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad56d3>, Registrované v: WOS
17. [1.1] TRUONG, Minh Duc - TRAN, Quang Dat. Enhancing quantum features and teleportation fidelity of two-mode non-Gaussian states using conditional measurements. In *LASER PHYSICS LETTERS*, 2024, vol. 21, no. 3, art. no. 035205. ISSN 1612-2011. Dostupné na: <https://doi.org/10.1088/1612-202X/ad1f4e>, Registrované v: WOS

ADCA428 KIRPLUKS, M. - GODINA, D. - ŠVAJDLENKOVÁ, Helena - ŠAUŠA, Ondrej - MODNIKS, J. - SIMAKOV, K. - ANDERSONS, J.**. Effect of crosslink density on thermal aging of bio-based rigid low-density closed-cell polyurethane foams. In *ACS Applied Polymer Materials*, 2023, vol. 5, no. 6, p. 4305-4315. (2022: 5 - IF, Q1 - JCR, 0.999 - SJR, Q1 - SJR). ISSN 2637-6105. Dostupné na: <https://doi.org/10.1021/acsapm.3c00470>

Citácie:

1. [1.1] LAN, Qiaoqiao - MAO, Xiaoyu - XIA, Chendong - ZHANG, Dandan - HUANG, Peipei - ZHANG, Weiyi - SHI, Shan - WANG, Zefeng. Curcumin based polyurethane materials and their functional applications: a review. In *MATERIALS RESEARCH EXPRESS*, 2024, vol. 11, no. 5, art. no. 052001.

Dostupné na: <https://doi.org/10.1088/2053-1591/ad48e1>, Registrované v: WOS

ADCA429 KITYK, Anna** - PAVLÍK, Viliam - BOČA, Miroslav - PANGALLO, Domenico - KAPUSTOVÁ, Magdaléna - HALAHOVETS, Yuriy. Electrochemical surface treatment to enhance corrosion resistance and bioresistance of medical-grade stainless steels. In *Journal of Materials Engineering and Performance*, 2020, vol. 29, no. 9, p. 5985-5994. (2019: 1.652 - IF, Q3 - JCR, 0.503 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1059-9495. Dostupné na: <https://doi.org/10.1007/s11665-020-05095-z>

Citácie:

1. [1.1] MARCZEWSKI, Marek - TYLUS, Włodzimierz - WINIARSKI, Juliusz. The effect of anodic polarization parameters of 316L steel in a propylene glycol: Choline chloride eutectic solvent on surface finishing, chemistry and corrosion resistance. In *APPLIED SURFACE SCIENCE*, 2024, vol. 652, no., art. no. 159335. ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2024.159335>, Registrované v: WOS

2. [1.1] ZHU, Q. Q. - LI, H. Y. - WANG, Y. - WANG, Z. W. - ZHOU, Z. Q. - SHU, C. H. Low current density electropolishing and corrosion resistance study of 304 stainless steel. In *SURFACE ENGINEERING*, 2024, vol. 40, no. 1, pp. 25-33. ISSN 0267-0844. Dostupné na: <https://doi.org/10.1177/02670844231224243>, Registrované v: WOS

3. [1.2] PROTSENKO, Vyacheslav. Application of choline chloride-based electrolytes to produce functional coatings on metal surfaces by electrochemical techniques. In *Advances in Materials Science Research*, 2024-05-17, 68, pp. 25-68. ISBN [9798891136861, 9798891137073]., Registrované v: SCOPUS

ADCA430 KITYK, Anna** - ŠVEC, Peter Jr. - ŠOLTÝS, Ján - PAVLÍK, Viliam - HNATKO, Miroslav. Deep inside of the mechanism of electrochemical surface etching of $\alpha + \beta$ Ti6Al4V alloy in room-temperature deep eutectic solvent Ethaline. In *Journal of Molecular Liquids*, 2023, vol. 375, no. 121316. (2022: 6 - IF, Q1 - JCR, 0.914 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 0167-7322. Dostupné na: <https://doi.org/10.1016/j.molliq.2023.121316>

Citácie:

1. [1.1] LIU, C. - YAN, Z.L. - YANG, J. - WEI, P.G. - ZHANG, D. - WANG, Q. - ZHANG, X. - HAO, Y.L. - YANG, D.H. Corrosion and Biological Behaviors of Biomedical Ti-24Nb-4Zr-8Sn Alloy under an Oxidative Stress Microenvironment. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, APR 3 2024, vol. 16, no. 15, p. 18503-18521. Dostupné na:

<https://doi.org/10.1021/acsami.4c00562>, Registrované v: WOS

2. [1.1] OKUNIEWSKI, W. - WALCZAK, M. - SZALA, M. Effects of Shot Peening and Electropolishing Treatment on the Properties of Additively and Conventionally Manufactured Ti6Al4V Alloy: A Review. In *MATERIALS*. FEB 2024, vol. 17, no. 4, art. no. 934. Dostupné na:

<https://doi.org/10.3390/ma17040934>, Registrované v: WOS

3. [1.1] TANG, C.B. - LI, X. - TANG, J.G. - REN, K. - XUE, J.Q. Electropolishing with Low Mass Loss for Additive Manufacturing of Ti6Al4V in Zinc Chloride-Urea Deep-Eutectic Solvent. In *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*. ISSN 0013-4651, MAY 1 2024, vol. 171, no. 5, art. no. 051504. Dostupné na: <https://doi.org/10.1149/1945-7111/ad4b60>, Registrované v: WOS

4. [1.1] YU, D.K. - JIANG, D.P. - XUE, Z.M. - MU, T.C. Deep eutectic solvents as green solvents for materials preparation. In *GREEN CHEMISTRY*. ISSN 1463-9262, JUL 1 2024, vol. 26, no. 13, p. 7478-7507. Dostupné na:

<https://doi.org/10.1039/D4GC00136B>, Registrované v: WOS

5. [1.1] ZHANG, L.J. - WANG, J.H. - LI, W. - YANG, P. - MA, T. - ZENG, M. - WANG, Q.W. Experimental study on the preparation of superalloy Inconel718 heat exchanger channels by electrochemical etching method. In *THERMAL SCIENCE AND ENGINEERING PROGRESS*. ISSN 2451-9049, AUG 2024, vol. 53, art. no. 102719. Dostupné na: <https://doi.org/10.1016/j.tsep.2024.102719>, Registrované v: WOS

6. [1.2] PROTSENKO, Vyacheslav. Application of choline chloride-based electrolytes to produce functional coatings on metal surfaces by electrochemical techniques. In *Advances in Materials Science Research*, 2024-05-17, 68, pp. 25-68. ISBN [9798891136861, 9798891137073]., Registrované v: SCOPUS

ADCA431 KITYK, Anna** - DANILOV, F.I. - PROTSENKO, V. - PAVLÍK, Viliam - BOČA, Miroslav - HALAHOVETS, Yuriy. Electropolishing of two kinds of bronze in a deep eutectic solvent (Ethaline). In *Surface & Coatings Technology*, 2020, vol. 397, art. no. 126060. (2019: 3.784 - IF, Q1 - JCR, 0.938 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0257-8972. Dostupné na: <https://doi.org/10.1016/j.surfcoat.2020.126060>

Citácie:

1. [1.1] BENRASHID, Amin - HABIBI, Davood - BEIRANVAND, Masoumeh. Deep eutectic solvent-immobilized magnetic nanoparticles as a capable catalyst for the green synthesis of triazolopyrimidines. In JOURNAL OF MOLECULAR LIQUIDS, 2024, vol. 409, no., art. no. 125504. ISSN 0167-7322. Dostupné na: <https://doi.org/10.1016/j.molliq.2024.125504>, Registrované v: WOS
2. [1.1] CHEN, Jiayao - CHEN, Shunhua - ZHANG, Junsheng - YUE, Xiaokang - TANG, Huohong - WU, Qiang. Enhancing the anodic dissolution uniformity of dendritic-structured refractory high entropy alloys using a split electrolytic cell with a deep eutectic solvent. In SURFACE & COATINGS TECHNOLOGY, 2024, vol. 494, no., art. no. 131460. ISSN 0257-8972. Dostupné na: <https://doi.org/10.1016/j.surfcoat.2024.131460>, Registrované v: WOS
3. [1.1] HAN, Zhao - FANG, Xiaolong - HAN, Xu - ZHANG, Jun - FENG, Yefei - WANG, Xuqing - ZHU, Di. Towards electrochemical machining of powder superalloy Reneacut accent 88DT with high surface integrity in different solvent-based electrolytes. In MATERIALS & DESIGN, 2024, vol. 246, no., art. no. 113359. ISSN 0264-1275. Dostupné na: <https://doi.org/10.1016/j.matdes.2024.113359>, Registrované v: WOS
4. [1.1] MARCZEWSKI, Marek - TYLUS, Włodzimierz - WINIARSKI, Juliusz. The effect of anodic polarization parameters of 316L steel in a propylene glycol: Choline chloride eutectic solvent on surface finishing, chemistry and corrosion resistance. In APPLIED SURFACE SCIENCE, 2024, vol. 652, no., art. no. 159335. ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2024.159335>, Registrované v: WOS
5. [1.1] NOGUEIRA, Francisca R. - PEDROSO, Andre F. V. - SILVA, Francisco J. G. - CAMPILHO, Raul D. S. G. - SALES-CONTINI, Rita C. M. - SEBBE, Naiara P. V. - CASAIS, Rafaela C. B. A Comparative Study on the Wear Mechanisms of Uncoated and TiAlTaN-Coated Tools Used in Machining AMPCO® Alloy. In COATINGS, 2024, vol. 14, no. 1, art. no. 4. Dostupné na: <https://doi.org/10.3390/coatings14010004>, Registrované v: WOS
6. [1.1] PEDROSO, Andre F. V. - SEBBE, Naiara P. V. - SILVA, Francisco J. G. - CAMPILHO, Raul D. S. G. - SALES-CONTINI, Rita C. M. - COSTA, Ruben D. F. S. - BARBOSA, Marta L. S. - NOGUEIRA, Francisca R. A Concise Review on Materials for Injection Moulds and Their Conventional and Non-Conventional Machining Processes. In MACHINES, 2024, vol. 12, no. 4, art. no. 255. Dostupné na: <https://doi.org/10.3390/machines12040255>, Registrované v: WOS
7. [1.1] ZHAN, Q. F. - LI, H. L. - WANG, Y. - WANG, Z. W. Effect of eco-friendly organic additives on copper electropolishing and process parameter optimization. In SURFACE ENGINEERING, 2024, vol. 40, no. 7-8, pp. 883-894. ISSN 0267-0844. Dostupné na: <https://doi.org/10.1177/02670844241285306>, Registrované v: WOS

ADCA432 KLBIK, Ivan** - ČECHOVÁ, Katarína - MILOVSKÁ, Stanislava - ŠVAJDLENKOVÁ, Helena - MAŤKO, Igor - LAKOTA, Ján - ŠAUŠA, Ondrej. Polyethylene glycol 400 enables plunge-freezing cryopreservation of human keratinocytes. In Journal of Molecular Liquids, 2023, vol. 379, art. no. 121711. (2022: 6 - IF, Q1 - JCR, 0.914 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 0167-7322. Dostupné na: <https://doi.org/10.1016/j.molliq.2023.121711>

Citácie:

1. [1.1] KANG, P.L. - KIM, S.J. - PARK, H. - KIM, I. - HAN, S.J. - YIM, J.H. Optimization of Culture Medium for the Production of an Exopolysaccharide (p-CY02) with Cryoprotective Activity by Pseudoalteromonas sp. RosPo-2 from the

ADCA433 *Antarctic Sea. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, MAY 2024, vol. 34, no. 5, p. 1135-1145., Registrované v: WOS*
KLBIK, Ivan** - ČECHOVÁ, Katarína - MILOVSKÁ, Stanislava - RUSNÁK, Jaroslav - VLASÁČ, Jozef - MELICHERČÍK, M. - MAŤKO, Igor - LAKOTA, Ján - ŠAUŠA, Ondrej. Cryoprotective mechanism of DMSO induced by the inhibitory effect on eutectic NaCl crystallization. In *Journal of Physical Chemistry Letters*, 2022, vol. 13, no. 48, p. 11153-11159. (2021: 6.888 - IF, Q1 - JCR, 2.009 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1948-7185. Dostupné na: <https://doi.org/10.1021/acs.jpcllett.2c03003>

Citácie:

1. [1.1] ROLLE, K. - OKOTRUB, K.A. - EVMENOVA, E.A. - KUZNETSOV, A.G. -

BABIN, S.A. - SUROVTSEV, N.V. Reversal of crystallization in cryoprotected samples by laser editing. In *JOURNAL OF CHEMICAL PHYSICS*. ISSN 0021-9606, MAY 14 2024, vol. 160, no. 18, art. no. 184506., Registrované v: WOS

2. [1.1] USACHEVA, T.R. - ALISTER, D.A. - KURANOVA, N.N. - VOLYNKIN, V.A. - LINDT, D.A. - PHAM, L.T. - D'ARIA, F. - GIANCOLA, C. Effect of water-dimethyl sulfoxide solvents on thermodynamic parameters of complex formation between benzoic acid and 2-hydroxypropyl- β -cyclodextrin. In *JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY*. ISSN 1388-6150, 2024, vol. , no., p., Registrované v: WOS

3. [1.2] YAN, Yuyue - ZHANG, Jiaqi - CHEN, Ligang - REN, Guanhua - ZHOU, Lu - LIU, Liyuan - ZHANG, Xueqian - OUYANG, Chunmei - WANG, Huabin - HAN, Jianguang. Interactions between ions and water-DMSO mixed solvent. In *Journal of Molecular Liquids*, 2024-11-15, 414, pp. ISSN 01677322. Dostupné na: <https://doi.org/10.1016/j.molliq.2024.126204>, Registrované v: SCOPUS

ADCA434 KLBIK, Ivan** - ČECHOVÁ, Katarína - MAŤKO, Igor - LAKOTA, Ján - ŠAUŠA, Ondrej. On crystallization of water confined in liposomes and cryoprotective action of DMSO. In *RSC Advances*, 2022, vol. 12, no. 4, p. 2300-2309. (2021: 4.036 - IF, Q2 - JCR, 0.667 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2046-2069. Dostupné na: <https://doi.org/10.1039/d1ra08935h>

Citácie:

1. [1.1] PAKHOMOV, O. - SHEVCHENKO, N. - CHERNOBAI, N. -

PROKOPIUK, V. - YERSHOV, S. - BOZHOK, G. Open-source hardware- and software-based cryomicroscopy system for investigation of phase transitions in cryobiological research. In *JOURNAL OF MICROSCOPY*. ISSN 0022-2720, FEB 2024, vol. 293, no. 2, p. 71-85., Registrované v: WOS

2. [1.1] ROLLE, K. - OKOTRUB, K.A. - EVMENOVA, E.A. - KUZNETSOV, A.G. - BABIN, S.A. - SUROVTSEV, N.V. Reversal of crystallization in cryoprotected samples by laser editing. In *JOURNAL OF CHEMICAL PHYSICS*. ISSN 0021-9606, MAY 14 2024, vol. 160, no. 18, art. no. 184506., Registrované v: WOS

3. [1.1] SPINELLI, C. - GHIONZOLI, M. - SAHLI, L.I. - VISINTAINER, S. - GUGLIELMO, C. - CORDOLA, C. - LAPI, S. - BIAGI, E. - PUCCI, A. - MORGANTI, R. - FERRARI, S.M. - ANTONELLI, A. Cryopreserved Thyroid Tissue Autotransplant in Pediatric Age Patients: A Feasibility Study and Literature Review. In *CANCERS*. JUN 2024, vol. 16, no. 11, art. no. 2112., Registrované v: WOS

4. [1.1] TAKEKIYO, T. - YAMADA, S. - UTO, T. - NAKAYAMA, M. - HIRATA, T. - ISHIZAKI, T. - KURODA, K. - YOSHIMURA, Y. Protein Cryoprotectant Ability of the Aqueous Zwitterionic Solution. In *JOURNAL OF PHYSICAL CHEMISTRY B*. ISSN 1520-6106, JAN 4 2024, vol. 128, no. 2, p. 526-535., Registrované v: WOS

5. [1.1] TORNACI, S. - ERGINER, M. - GÖKALSIN, B. - AYSAN, A. - ÇETIN, M. - SADAUKI, M. - FINDIKLI, N. - GENÇ, S. - SESAL, C. - ÖNER, E.T. Investigating

the cryoprotective efficacy of fructans in mammalian cell systems via a structure-functional perspective. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, MAR 15 2024, vol. 328, art. no. 121704., Registrované v: WOS

6. [1.2] PAKHOMOV, O. V. - GURINA, T. M. - POLYAKOVA, H. L. - MAZAEVA, V. S. - DENG, Bo - BOZHOK, G. A. Study of physical processes occurring in serum-containing and polymer-based serum-free cryoprotective media. In Biopolymers and Cell, 2024-01-01, 40, 1, pp. 37-46. ISSN 02337657. Dostupné na: <https://doi.org/10.7124/bc.000AAC>, Registrované v: SCOPUS

ADCA435 KLBIK, Ivan**. Is post-hypertonic lysis of human red blood cells caused by excessive cell volume regulation? In Cryobiology, 2024, vol. 114, art. no. 104795. (2023: 2.3 - IF, Q2 - JCR, 0.551 - SJR, Q2 - SJR). ISSN 0011-2240. Dostupné na: <https://doi.org/10.1016/j.cryobiol.2023.104795>

Citácie:

1. [1.1] ACKER, Jason P. Editorial: Advancing the cryopreservation of cells, tissues and organs using model biological systems. In CRYOBIOLOGY, 2024, vol. 117, no., art. no. 104975. ISSN 0011-2240. Dostupné na: <https://doi.org/10.1016/j.cryobiol.2024.104975>, Registrované v: WOS

2. [1.1] AZEVEDO, Nathalia C. L. - DE MEDEIROS, Aline M. Z. - DA SILVA, Gabriela H. - BRITO, Milena L. - FARIA, Joao M. L. - DELITE, Fabricio S. - PAULA, Amauri J. - MARTINEZ, Diego S. T. Biocorona Formation and Hemolytic Effects of Graphene Oxide-Silver Nanoparticles. In JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY, 2024, vol. 35, no. 12, art. no. e20240148. ISSN 0103-5053. Dostupné na: <https://doi.org/10.21577/0103-5053.20240148>, Registrované v: WOS

3. [1.1] PAKHOMOV, O. - LEGACH, E. I. - PROTSENKO, O. S. - CHERNOBAI, N. A. - BOZHOK, G. A. Contribution of extracellular solute transfer to testicular cell damage. In REGULATORY MECHANISMS IN BIOSYSTEMS, 2024, vol. 15, no. 4, pp. 728-732. ISSN 2519-8521. Dostupné na: <https://doi.org/10.15421/0224105>, Registrované v: WOS

4. [1.2] CHABANENKO, Olena O. - YERSHOVA, Natalia A. - ORLOVA, Nataliia V. - LAPTIY, Olena P. - SHPAKOVA, Nataliia M. Amphiphilic Compounds as Antihemolytic Agents: Problems and Prospects. In Problems of Cryobiology and Cryomedicine, 2024-05-19, 34, 1, pp. 19-32. ISSN 23076143. Dostupné na: <https://doi.org/10.15407/cryo34.01.019>, Registrované v: SCOPUS

ADCA436 KLIMO, Jozef** - VESELSKY, M.** - SOULIOTIS, G.A.** - BONASERA, A.**. Simulation of fusion and quasi-fission in nuclear reactions leading to production of superheavy elements using the Constrained Molecular Dynamics model. In Nuclear Physics A, 2019, vol. 992, art. no. 121640. (2018: 1.463 - IF, Q3 - JCR, 0.926 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0375-9474. Dostupné na: <https://doi.org/10.1016/j.nuclphysa.2019.121640>

Citácie:

1. [1.1] LEE, H. - MCGLYNN, P. - SIMENEL, C. Shell effects in quasifission in reactions forming the SUP226/SUP Th compound nucleus. In PHYSICAL REVIEW C, 2024, vol. 110, no. 2, art. no. 024606. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.024606>, Registrované v: WOS

ADCA437 KLINOVAJA, J. - STAÑO, Peter - LOSS, D. Transition from fractional to Majorana fermions in Rashba nanowires. In Physical Review Letters, 2012, vol. 109, no. 23, art. no. 236801. (2011: 7.370 - IF, Q1 - JCR, 6.314 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.109.236801>

Citácie:

1. [1.1] AMUNDSEN, Morten - LINDER, Jacob - ROBINSON, Jason W. A. -

ZUTIC, Igor - BANERJEE, Niladri. Colloquium: Spin-orbit effects in superconducting hybrid structures. In *REVIEWS OF MODERN PHYSICS*, 2024, vol. 96, no. 2, art. no. 021003. ISSN 0034-6861. Dostupné na: <https://doi.org/10.1103/RevModPhys.96.021003>, Registrované v: WOS

2. [1.1] ASSILI, Mohamed - KOTETES, Panagiotis. Dynamical chiral symmetry and symmetry-class conversion in Floquet topological insulators. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 18, art. no. 184307. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.184307>, Registrované v: WOS

3. [1.1] SARDINERO, Ignacio - SOUTO, Ruben Seoane - BURSET, Pablo. Topological superconductivity in a magnetic-texture coupled Josephson junction. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 6, art. no. L060505. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.L060505>, Registrované v: WOS

4. [1.1] THAMM, Matthias - ROSENOW, Bernd. Conductance based machine learning of optimal gate voltages for disordered Majorana wires. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 4, art. no. 045132. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.045132>, Registrované v: WOS

ADCA438 KLINOVAJA, J. - STAÑO, Peter - LOSS, D. Topological floquet phases in driven coupled Rashba nanowires. In *Physical Review Letters*, 2016, vol. 116, no. 17, art. no. 176401. (2015: 7.645 - IF, Q1 - JCR, 4.656 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.116.176401>

Citácie:

1. [1.1] ASSILI, Mohamed - KOTETES, Panagiotis. Dynamical chiral symmetry and symmetry-class conversion in Floquet topological insulators. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 18, art. no. 184307. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.184307>, Registrované v: WOS

ADCA439 KLINOVAJA, J. - STAÑO, Peter - YAZDANI, A. - LOSS, D. Topological superconductivity and majorana fermions in RKKY systems. In *Physical Review Letters*, 2013, vol. 111, no. 18, art. no. 186805. (2012: 7.943 - IF, Q1 - JCR, 6.292 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.111.186805>

Citácie:

1. [1.1] AWOGA, Oladunjoye A. - IOANNIDIS, Ioannis - MISHRA, Archana - LEIJNSE, Martin - TRIF, Mircea - POSSKE, Thore. Controlling Majorana hybridization in magnetic chain-superconductor systems. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 3, art. no. 033154. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.033154>, Registrované v: WOS

2. [1.1] CHATTERJEE, Pritam - GHOSH, Arnob Kumar - NANDY, Ashis K. - SAHA, Arijit. Second-order topological superconductor via noncollinear magnetic texture. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 4, art. no. L041409. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.L041409>, Registrované v: WOS

3. [1.1] CHINELLATO, Leandro M. - GAZZA, Claudio J. - LOBOS, Alejandro M. - ALIGIA, Armando A. Topological phases of strongly interacting time-reversal invariant topological superconducting chains under a magnetic field. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 6, art. no. 064503. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.064503>, Registrované v: WOS

4. [1.1] CUI NA-WEI - GAO JIA-XIN - DONG HUI-RU - LI CHUAN-QI - LUO XIAO-BING - XIAO JIN-PENG. Topological superconducting phase competition in magnetic atomic rings. In *ACTA PHYSICA SINICA*, 2024, vol. 73, no. 23, art.

no. 237301. ISSN 1000-3290. Dostupné na:

<https://doi.org/10.7498/aps.73.20241095>, Registrované v: WOS

5. [1.1] DING, Shuaibo - BAI, Yunfei - BULEKOV, A. A. - ZHANG, Wenhui - SHANENKO, A. A. - CHEN, Yajiang. Yu-Shiba-Rusinov States in s-Wave Kagome Superconductors: Self-Consistent Bogoliubov-de Gennes Calculations. In JOURNAL OF PHYSICAL CHEMISTRY LETTERS, 2024, vol. 15, no. 35, pp. 9084-9091. ISSN 1948-7185. Dostupné na:

<https://doi.org/10.1021/acs.jpcllett.4c02322>, Registrované v: WOS

6. [1.1] DMYTRUK, Olesia - SCHIRO, Marco. Hybrid light-matter states in topological superconductors coupled to cavity photons. In PHYSICAL REVIEW B, 2024, vol. 110, no. 7, art. no. 075416. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.110.075416>, Registrované v: WOS

7. [1.1] GENG, Li - HONG, Ding - ZI-QIANG, Wang - HONG-JUN, Gao. Majorana zero mode and its lattice construction in iron-based superconductors. In ACTA PHYSICA SINICA, 2024, vol. 73, no. 3, art. no. 030302. ISSN 1000-3290. Dostupné na: <https://doi.org/10.7498/aps.73.20232022>, Registrované v: WOS

8. [1.1] HOU, Jin-Xing - WESTSTROM, Alex - WANG, Rui - YANG, Wen-Li - LI, Jian. Embedded Majorana islands. In SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY, 2024, vol. 67, no. 9, art. no. 297212. ISSN 1674-7348. Dostupné na: <https://doi.org/10.1007/s11433-024-2418-2>, Registrované v: WOS

9. [1.1] HSU, Chen-Hsuan. Interaction- and phonon-induced topological phase transitions in double helical liquids. In NANOSCALE HORIZONS, 2024, vol. 9, no. 10. ISSN 2055-6756. Dostupné na: <https://doi.org/10.1039/d4nh00254g>, Registrované v: WOS

10. [1.1] HU, Jingnan - YU, Fei - LUO, Aiyun - PAN, Xiao-Hong - ZOU, Jinyu - LIU, Xin - XU, Gang. Chiral Topological Superconductivity in Superconductor-Obstructed Atomic Insulator-Ferromagnetic Insulator Heterostructures. In PHYSICAL REVIEW LETTERS, 2024, vol. 132, no. 3, art. no. 036601. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.036601>, Registrované v: WOS

11. [1.1] KESHARPU, Kaushal K. - KOCHETOV, Evgenii A. - FERRAZ, Alvaro. Proposal for realizing Majorana fermions without external magnetic field in strongly correlated nanowires. In PHYSICAL REVIEW B, 2024, vol. 109, no. 11, art. no. 115140. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.109.115140>, Registrované v: WOS

12. [1.1] LEGENDRE, Julian - ZSURKA, Eduard - DI MICELI, Daniele - SERRA, Llorenç - MOORS, Kristof - SCHMIDT, Thomas L. Topological properties of finite-size heterostructures of magnetic topological insulators and superconductors. In PHYSICAL REVIEW B, 2024, vol. 110, no. 7, art. no. 075426. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.075426>, Registrované v: WOS

13. [1.1] LI, Geng - LI, Meng - ZHOU, Xingtai - GAO, Hong-Jun. Toward large-scale, ordered and tunable Majorana-zero-modes lattice on iron-based superconductors. In REPORTS ON PROGRESS IN PHYSICS, 2024, vol. 87, no. 1, art. no. 016501. ISSN 0034-4885. Dostupné na: <https://doi.org/10.1088/1361-6633/ad0c5c>, Registrované v: WOS

14. [1.1] LIANG, Kun - SUN, Hong. Stretching-controlled structural evolution in phosphorene: Transferable and tunable twinning nanoarchitecture for construction of monatomic chains. In PHYSICAL REVIEW B, 2024, vol. 109, no. 10, art. no. 104105. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.109.104105>, Registrované v: WOS

15. [1.1] LO CONTE, Roberto - WIEBE, Jens - RACHEL, Stephan - MORR, Dirk

- K. - WIESENDANGER, Roland. Magnet-superconductor hybrid quantum systems: a materials platform for topological superconductivity. In *RIVISTA DEL NUOVO CIMENTO*, 2024, vol. 47, no. 8-9, pp. 453-554. ISSN 0393-697X. Dostupné na: <https://doi.org/10.1007/s40766-024-00060-1>, Registrované v: WOS
16. [1.1] MA, Meng-Ya - XU, Rui-Cong - GONG, Wei-Jiang - YI, Guang-Yu. Spin and orbital Yu-Shiba-Rusinov states and delocalization control of magnetic order in parallel double quantum dot Josephson junctions. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 12, art. no. 125105. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.125105>, Registrované v: WOS
17. [1.1] MULLINEAUXSANDERS, Harry - BRAUNECKER, Bernd. Topological classification of one-dimensional chiral symmetric interfaces. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 24, art. no. L241409. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.L241409>, Registrované v: WOS
18. [1.1] PLORIN, Cassian - POTTHOFF, Michael. Kondo screening and indirect magnetic exchange through a conventional superconductor studied by the density matrix renormalization group. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 8, art. no. 085119. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.085119>, Registrované v: WOS
19. [1.1] SARDINERO, Ignacio - SOUTO, Ruben Seoane - BURSET, Pablo. Topological superconductivity in a magnetic-texture coupled Josephson junction. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 6, art. no. L060505. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.L060505>, Registrované v: WOS
20. [1.1] SCHIRMER, Jonathan - JAIN, J. K. - LIU, C.X. Topological superconductivity induced by spin-orbit coupling, perpendicular magnetic field, and superlattice potential. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 13, art. no. 134518. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.134518>, Registrované v: WOS
21. [1.1] SCHRADE, Constantin - FU, Liang. Distinguishing Majorana from Andreev bound states with a Cooper pair transistor. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 16, art. no. 165414. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.165414>, Registrované v: WOS
22. [1.1] SHEN, Chenghao - HAN, Jong E. - VEZIN, Thomas - ALIDOUST, Mohammad - ZUTIC, Igor. Signatures of enhanced spin-triplet superconductivity induced by interfacial properties. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 10, art. no. 104514. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.104514>, Registrované v: WOS
23. [1.1] STRKALJ, Antonio - CHEN, Xi-Rong - CHEN, Wei - XING, D. Y. - ZILBERBERG, Oded. Tomesch Oscillations as Above-Gap Signature of Topological Superconductivity. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 6, art. no. 066301. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.066301>, Registrované v: WOS
24. [1.1] SUBHADARSHINI, Minakshi - PAL, Amartya - CHATTERJEE, Pritam - SAHA, Arijit. Multiple topological phase transitions unveiling gapless topological superconductivity in magnet/unconventional superconductor hybrid platform. In *APPLIED PHYSICS LETTERS*, 2024, vol. 124, no. 18, art. no. 183102. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0199275>, Registrované v: WOS
25. [1.1] SUN, Zi-Ting - HU, Jin-Xin - XIE, Ying-Ming - LAW, K. T. Anomalous $h/2e$ Periodicity and Majorana Zero Modes in Chiral Josephson Junctions. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 5, art. no. 056601. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.056601>,

Registrované v: WOS

26. [1.1] TANAKA, Yukio - TAMURA, Shun - CAYAO, Jorge. Theory of Majorana Zero Modes in Unconventional Superconductors. In *PROGRESS OF THEORETICAL AND EXPERIMENTAL PHYSICS*, 2024, vol. 2024, no. 8. ISSN 2050-3911. Dostupné na: <https://doi.org/10.1093/ptep/ptae065>, Registrované v: WOS

27. [1.1] THOMAS, S. M. - SEO, S. - ASABA, T. - ROSA, F. P. F. S. - BAUER, E. D. - THOMPSON, J. D. Probing quantum criticality in ferromagnetic CeRh6Ge4 In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 12, art. no. L121105. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.L121105>, Registrované v: WOS

28. [1.1] WANG, Jia-Ning - PENG, Tan - CHEN, Xiao-Dan - HOU, Yong-Dan - YANG, Jun-Tao - SHANG, Hao - NAN, Nan - XIONG, Yong-Chen - LIU, Wu-Ming. Review of Yu-Shiba-Rusinov bound state in quantum impurity structures: basic principle and current progress. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*, 2024, vol. 37, no. 12, art. no. 123002. ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad883c>, Registrované v: WOS

29. [1.1] WANG, Jia-Ning - XIONG, Yong-Chen - ZHOU, WangHuai - PENG, Tan - WANG, Ziyu. Secondary proximity effect in a side-coupled double quantum dot structure. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 6, art. no. 064518. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.064518>, Registrované v: WOS

30. [1.1] WINBLAD, Aidan - CHEN, Hua. Superconducting triangular islands as a platform for manipulating Majorana zero modes. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 20, art. no. 205158. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.205158>, Registrované v: WOS

31. [1.1] WU, Kunmin - KADIJANI, Sadeq S. - SCHMIDT, Thomas L. Braiding of Majorana bound states in a driven-dissipative Majorana box setup. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 12, art. no. 123007. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad96da>, Registrované v: WOS

32. [1.1] YANG, F. - WU, M. W. Diamagnetic property and optical absorption of conventional superconductors with magnetic impurities in linear response. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 6, art. no. 064508. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.064508>, Registrované v: WOS

33. [1.1] YANG, Yutong - QIN, Wei - CHEN, Yanru - ZHANG, Shunhong - CUI, Ping - ZHANG, Zhenyu. Endowing the Ising superconductor NbSe2 with nontrivial band topology via proximity coupling with the two-dimensional ferromagnet Fe3GeTe2. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 4, art. no. L041112. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.L041112>, Registrované v: WOS

34. [1.2] CHATTERJEE, Pritam - BANIK, Sayan - BERA, Sandip - GHOSH, Arnob Kumar - PRADHAN, Saurabh - SAHA, Arijit - NANDY, Ashis K. Topological superconductivity by engineering noncollinear magnetism in magnet/superconductor heterostructures: A realistic prescription for the two-dimensional Kitaev model. In *Physical Review B*, 2024-03-15, 109, 12, pp. ISSN 24699950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.L121301>, Registrované v: SCOPUS

ADCA440

KLOEFFEL, Ch. - TRIF, M. - STAÑO, Peter - LOSS, D. Circuit QED with hole-spin qubits in Ge/Si nanowire quantum dots. In *Physical Review B*, 2013, vol. 88, no. 24, art. no. 241405. (2012: 3.767 - IF, Q1 - JCR, 1.779 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 1550-235X.

Dostupné na: <https://doi.org/10.1103/PhysRevB.88.241405>

Citácie:

1. [1.1] BADAWY, Ghada - BAKKERS, Erik P. A. M. *Electronic Transport and Quantum Phenomena in Nanowires*. In *CHEMICAL REVIEWS*, 2024, vol. 124, no. 5, pp. 2419-2440. ISSN 0009-2665. Dostupné na:

<https://doi.org/10.1021/acs.chemrev.3c00656>, Registrované v: WOS

2. [1.1] LI, Rui. *Hole subband dispersions in a cylindrical Ge nanowire: exact results based on the axial Luttinger-Kohn Hamiltonian*. In *JOURNAL OF PHYSICS-CONDENSED MATTER*, 2024, vol. 36, no. 23, art. no. 235301. ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/1361-648X/ad2f57>, Registrované v: WOS

3. [1.1] LI, Rui. *Spin-photon interaction in a nanowire quantum dot with asymmetrical confining potential*. In *JOURNAL OF PHYSICS-CONDENSED MATTER*, 2024, vol. 36, no. 19, art. no. 195302. ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/1361-648X/ad22fa>, Registrované v: WOS

ADCA441 KOČÍ, M.** - IZSÁK, Tibor - VANKO, Gabriel - SOJKOVÁ, Michaela - HRDÁ, Jana - SZABÓ, O. - HUSÁK, M. - VÉGSŐ, Karol - VARGA, Marian - KROMKA, A. *Improved gas sensing capabilities of MoS₂/diamond heterostructures at room temperature*. In *ACS Applied Materials & Interfaces*, 2023, vol. 15, no. 28, p. 34206-34214. (2022: 9.5 - IF, Q1 - JCR, 2.178 - SJR, Q1 - SJR). ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.3c04438>

Citácie:

1. [1.1] DAS, S. - BANERJEE, A. - PAL, P. - RUDRA, S. - NANDI, U. - GHOSH, A. *Hydrothermally synthesized gadolinium doped molybdenum disulfide for electrochemical supercapacitor applications*. In *JOURNAL OF ENERGY STORAGE*. ISSN 2352-152X, OCT 1 2024, vol. 99, A, art. no. 113268. Dostupné na: <https://doi.org/10.1016/j.est.2024.113268>, Registrované v: WOS

2. [1.1] KUNDU, S. - GURUPRASAD, G. - GHOSH, R. *Room Temperature H₂S Sensing by rGO-MoS₂ Composite*. In *IEEE SENSORS LETTERS*. ISSN 2475-1472, APR 2024, vol. 8, no. 4, art. no. 4500504. Dostupné na: <https://doi.org/10.1109/LSENS.2024.3373237>, Registrované v: WOS

3. [1.1] LIM, Wei Yin - GOH, Choon-Hian - YAP, Keenan Zhihong - RAMAKRISHNAN, Narayanan. *Electrophoretically deposited graphene oxide/molybdenum disulfide composite on quartz crystal microbalance for ethyl acetate VOC detection*. In *JOURNAL OF MATERIALS SCIENCE*, 2024, vol. 59, no. 46, pp. 21277-21293. ISSN 0022-2461. Dostupné na: <https://doi.org/10.1007/s10853-024-10465-2>, Registrované v: WOS

4. [1.1] MIRZAEI, A. - ALIZADEH, M. - ANSARI, H.R. - MOAYEDI, M. - KORDROSTAMI, Z. - SAFAEIAN, H. - LEE, M.H. - KIM, T.U. - KIM, J.Y. - KIM, H.W. - KIM, S.S. *Resistive gas sensors for the detection of NH₃ gas based on 2D WS₂, WSe₂, MoS₂, and MoSe₂: a review*. In *NANOTECHNOLOGY*. ISSN 0957-4484, AUG 12 2024, vol. 35, no. 33, art. no. 332002. Dostupné na: <https://doi.org/10.1088/1361-6528/ad4b22>, Registrované v: WOS

5. [1.1] MUTHUMALAI, K. - MANOHARAN, M. - GOVINDHARAJ, K. - SARAVANAN, P. - HALDORAI, Y. - SOFER, Z. - KUMAR, R.T.R. *Development of Dual-Selective Chemiresistive Sensor for NH₃ and NO_x at Room Temperature Using MoS₂/MoO₂ Heterostructures*. In *ACS APPLIED NANO MATERIALS*. JUN 19 2024, vol. 7, no. 12, p. 14164-14173. Dostupné na: <https://doi.org/10.1021/acsanm.4c01701>, Registrované v: WOS

6. [1.1] RAWAT, S. - BAMOLA, P. - KARISHMA - RANI, C. - DHOUNDIYAL, H. - SHARMA, N. - DWIVEDI, C. - KUMAR, U. - SATYARTHI, P.S. - SHARMA, M. - KUMAR, R. - SHARMA, H. *Surface and Interface Investigation on MoS₂-rGO*

Hybrids for Room Temperature Gas Sensing. In IEEE SENSORS JOURNAL. ISSN 1530-437X, JUL 15 2024, vol. 24, no. 14, p. 22218-22226. Dostupné na: <https://doi.org/10.1109/JSEN.2024.3396630>, Registrované v: WOS

7. [1.1] WANG, M.Y. - ZHOU, C.X. - YANG, F.C. *Design and understanding of SnO₂ architecture decorated by MoS₂ quantum dots for enhancing triethylamine sensing ☆. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, NOV 20 2024, vol. 703, 1, art. no. 135222. Dostupné na: <https://doi.org/10.1016/j.colsurfa.2024.135222>, Registrované v: WOS*

8. [1.1] YAN, B. - CHEN, N. - XU, C. - WU, Y. - LI, L. - LEE, C. - HE, N. *Covalently Bonded Heterostructures with Mixed-Dimensional Carbons for Suppressing Mechanochemical Wear of Diamond under Heavy Loads. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, APR 6 2024, vol. 16, no. 15, p. 19751-19763. Dostupné na: <https://doi.org/10.1021/acsami.4c00032>, Registrované v: WOS*

9. [1.2] YOGASARASWATHI, R. - DHEEPA, J. *Effect of Zinc Doping and Porosity on Structural, Morphological and Gas Sensing Properties of Porous Zn:SnO₂ Bilayer Thin Film. In Asian Journal of Chemistry, 2024-01-01, 36, 7, pp. 1579-1586. ISSN 09707077. Dostupné na: <https://doi.org/10.14233/ajchem.2024.31471>, Registrované v: SCOPUS*

ADCA442 KOKKONEN, H.** - AURANEN, K. - UUSITALO, J. - EECKHAUDT, S. - GRAHN, T. - GREENLEES, P. T. - JONES, P. - JULIN, R. - JUUTINEN, S. - LEINO, M. - LEPPÄNEN, A.-P. - NYMAN, M. - PAKARINEN, J. - RAHKILA, P. - SARÉN, J. - SCHOLEY, C. - SORRI, J. - VENHART, Martin. *Properties of the new α -decaying isotope 190At. In Physical Review C, 2023, vol. 107, no. 6, art. no. 064312. (2022: 3.1 - IF, Q2 - JCR, 1.305 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.107.064312>*

Citácie:

1. [1.1] THOENNESSEN, M. *2023 update of the discoveries of nuclides. In INTERNATIONAL JOURNAL OF MODERN PHYSICS E, 2024, vol. 33, no. 03N04, art. no. 2430001. ISSN 0218-3013. Dostupné na: <https://doi.org/10.1142/S0218301324300017>, Registrované v: WOS*

2. [1.1] VESIC, Jelena - VENCELJ, Matjaz. *Nuclear Physics Opportunities at European Small-Scale Facilities. In QUANTUM BEAM SCIENCE, 2024, vol. 8, no. 1, art. no. 4. Dostupné na: <https://doi.org/10.3390/qubs8010004>, Registrované v: WOS*

3. [1.1] WANG, Zhen - REN, Zhongzhou. *Investigating α decays of recently discovered heavy and superheavy nuclei within the improved density-dependent cluster model. In PHYSICAL REVIEW C, 2024, vol. 110, no. 6, art. no. 064307. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.064307>, Registrované v: WOS*

ADCA443 KOLANO-BURIAN, A. - KULIK, T. - VLASÁK, Gabriel - FERENC, J. - VARGA, L.K. *Effect of Co addition on nanocrystallization and soft magnetic properties of (Fe_{1-x}Co_x)_{73.5}Cu₁Nb₃Si_{13.5}B₉ alloys. In Journal of Magnetism and Magnetic Materials, 2004, vol. 272, p. 1447-1448. (2003: 0.910 - IF, karentované - CCC). (2004 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2003.12.1349>*

Citácie:

1. [1.1] WARSKI, Tymon - PILSNIAK, Adam - WOJCIK, Anna - SZLEZYNGER, Maciej - DADIEL, Joseph Longji - KOLANO-BURIAN, Aleksandra - HAWELEK, Lukasz. *Annealing Optimization of High Induction (1.7 T) Fe₈₅-(x plus*

y)CoxCuyB15 Alloys With Enhanced Magnetic Properties. In METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, 2024, vol. 55, no. 4, pp. 1174-1182. ISSN 1073-5623.

ADCA444 Dostupné na: <https://doi.org/10.1007/s11661-024-07313-y>, Registrované v: WOS KOLESÍK, Miroslav - MOLONEY, J.V. - WRIGHT, E.M. Polarization dynamics of femtosecond pulses propagating in air. In Physical Review E, 2001, vol. 64, no. 4, art. no. 046607. (2000: 2.142 - IF, karentované - CCC). (2001 - Current Contents). ISSN 2470-0045.

Citácie:

1. [1.1] GEINTS, Ilia - KOSAREVA, Olga. Polarization-Dependent Formation of Extremely Compressed Femtosecond Wave Packets and Supercontinuum Generation in Fused Silica. In PHOTONICS, 2024, vol. 11, no. 7, art. no. 620.

Dostupné na: <https://doi.org/10.3390/photonics11070620>, Registrované v: WOS

2. [1.1] LI, Dongwei - HAO, Zuoqiang - LI, Jianghao - CAI, Yangjian - ZHANG, Lanzhi. Polarization of the third harmonic emission from the filamentation of femtosecond cylindrical vector beams. In OPTICS EXPRESS, 2024, vol. 32, no. 1, pp. 387-395. ISSN 1094-4087. Dostupné na: <https://doi.org/10.1364/OE.507793>, Registrované v: WOS

3. [1.1] NAKAMURA, Shin - FUJII, Takashi - SATO, Masahiro - KUMADA, Akiko - OISHI, Yuji. Polarization change of femtosecond laser pulses in air measured by electric-field-induced second-harmonic generation. In OPTICS LETTERS, 2024, vol. 49, no. 3, pp. 726-729. ISSN 0146-9592. Dostupné na:

<https://doi.org/10.1364/OL.511240>, Registrované v: WOS

4. [1.1] WANG, Guoyang - YANG, Bodong - ZHANG, Rui - ZHANG, Minghao - XIAO, Wen - ZHANG, Weihao - ZHAO, Haixu - ZHANG, Cunlin - ZHANG, Liangliang. Investigation of Polarization Effect on Terahertz-Enhanced Air Plasma Acoustic Emission. In IEEE TRANSACTIONS ON TERAHERTZ SCIENCE AND TECHNOLOGY, 2024, vol. 14, no. 6, pp. 851-856. ISSN 2156-342X. Dostupné na: <https://doi.org/10.1109/TTHZ.2024.3450196>, Registrované v: WOS

5. [1.2] TROPINA, Albina - POKHAREL, Sagar - TIDMORE, Haru - CREEL, James R. - SHNEIDER, Mikhail N. Laser pulse ellipticity and ionization effects. In AIAA Scitech Forum and Exposition 2024, 2024-01-01, pp. ISBN [9781624107115]. Dostupné na: <https://doi.org/10.2514/6.2024-2242>,

Registrované v: SCOPUS

ADCA445 KOLESÍK, Miroslav - SUZUKI, M. Accurate estimates of 3D ising critical exponents using the coherent-anomaly method. In Physica A - Statistical Mechanics and its Applications, 1995, vol. 215, no. 1-2, p. 138-151. (1995 - Current Contents, SCOPUS). ISSN 0378-4371. Dostupné na: [https://doi.org/10.1016/0378-4371\(94\)00302-A](https://doi.org/10.1016/0378-4371(94)00302-A)

Citácie:

1. [1.1] MARKINA, M. M. - BERDONOSOV, P. S. - VASILCHIKOVA, T. M. - ZAKHAROV, K. V. - MURTAZOEV, A. F. - DOLGIKH, V. A. - MOSKIN, A. V. - GLAZKOV, V. N. - SMIRNOV, A. I. - VASILIEV, A. N. Static and resonant properties of decorated square kagome lattice $KCu_7(TeO_4)(SO_4)_5Cl$. In MATERIALS CHEMISTRY AND PHYSICS, 2024, vol. 319, no., art. no. 129348. ISSN 0254-0584. Dostupné na:

<https://doi.org/10.1016/j.matchemphys.2024.129348>, Registrované v: WOS

ADCA446 KONIORCZYK, Mátyás - BUŽEK, Vladimír. Nonmaximally entangled bases and their application in entanglement purification via swapping. In Physical Review A, 2005, vol. 71, no. 3, art. no. 032331. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.71.032331>

Citácie:

1. [1.1] DEL SANTO, Flavio - CZARTOWSKI, Jakub - ZYCZKOWSKI, Karol - GISIN, Nicolas. Iso-entangled bases and joint measurements. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 2, art. no. 023085. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.023085>, Registrované v: WOS

ADCA447 KONSTANTINIDIS, Nikolaos - FOS, Alen - ŠVEC, Peter - PAPADOPOULOS, N. - VOURNA, P. - HRISTOFOROU, Evangelos**. Morphology and magnetic properties of rapidly quenched Fe-B alloys. In *Journal of Magnetism and Magnetic Materials*, 2022, vol. 564, art. no. 170054. (2021: 3.097 - IF, Q3 - JCR, 0.606 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2022.170054>

Citácie:

1. [1.1] DUDOROV, Maxim V. - DROZIN, Alexander D. - MOROZOV, Roman S. - ROSHCHIN, Vasiliy E. - ZHEREBTSOV, Dmitry A. The Degree of Metallic Alloys Crystallinity Formed under Various Supercooling Conditions. In *CRYSTALS*, 2024, vol. 14, no. 1, art. no. 48. Dostupné na: <https://doi.org/10.3390/cryst14010048>, Registrované v: WOS

2. [1.1] XU, Qin - GAO, Jiancun - YANG, Shengqiang - WU, Siyuan - JIA, Shaokang - SUI, Hongbin - HAO, Ruixuan. Spontaneous Combustion Characteristic Stages of Active FeS and Its Inhibition Effect by Gas-Phase Passivation. In *COMBUSTION SCIENCE AND TECHNOLOGY*, 2024, vol. 196, no. 15, pp. 3542-3558. ISSN 0010-2202. Dostupné na: <https://doi.org/10.1080/00102202.2023.2177511>, Registrované v: WOS

ADCA448 KOPANI, M. - MIKULA, M. - TAKAHASHI, M. - RUSNÁK, Jaroslav - PINČÍK, Emil. FT IR spectroscopy of silicon oxide layers prepared with perchloric acid. In *Applied Surface Science*, 2013, vol. 269, p. 106-109. (2012: 2.112 - IF, Q1 - JCR, 0.913 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2012.09.081>

Citácie:

1. [1.1] LI, An - HOSHII, Takuya - TSUTSUI, Kazuo - WAKABAYASHI, Hitoshi - KAKUSHIMA, Kuniyuki. Improved electrical characteristics of 4H-SiC (0001) MOS devices with atomic layer deposited SiO₂ gate dielectric with H₂O plasma. In *JAPANESE JOURNAL OF APPLIED PHYSICS*, 2024, vol. 63, no. 6, art. no. 066503. ISSN 0021-4922. Dostupné na: <https://doi.org/10.35848/1347-4065/ad52db>, Registrované v: WOS

2. [1.1] QIAN, Lewen - SUN, Xin - LIU, Tao - HUANG, Ziqiang - GUO, Xinlong - PAN, Maolin - WANG, Dawei - XU, Saisheng - XU, Min - WANG, Chen - WU, Chunlei - ZHANG, David Wei. Fabrication of the low-k films with tunable k value as spacers in advanced CMOS technology. In *JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A*, 2024, vol. 42, no. 2, art. no. 023423. ISSN 0734-2101. Dostupné na: <https://doi.org/10.1116/6.0003357>, Registrované v: WOS

3. [1.1] RADAA, C. - JALLAL, Z. - BOUGDOUR, N. - IDLAHCEN, A. - EL IBRAHIMI, B. - OUKHRIB, R. - EL HAYAOUI, W. - TAJAT, N. - QOURZAL, S. - TAMIMI, M. - ASSABBANE, A. - BAKAS, I. Removal of cadmium from phosphate industrial wastewater using pozzolan: characterization, experimental and Monte Carlo/SAA simulations studies. In *INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY*, 2024, vol. 21, no. 11, pp. 7667-7680. ISSN 1735-1472. Dostupné na: <https://doi.org/10.1007/s13762-024-05495-x>, Registrované v: WOS

4. [1.1] SARAVANAN, L. - GUPTA, Nanhe Kumar - MISHRA, Vireshwar - GARCIA, Carlos - CHAUDHARY, Sujeet. Impact of annealing on perpendicular

magnetic anisotropy in W/MgAl₂O₄/CoFeMnSi/W/CoFeMnSi/MgAl₂O₄/W double storage layers for upcoming MTJs. In JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, 2024, vol. 603, no., art. no. 172225. ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2024.172225>, Registrované v: WOS

5. [1.1] SEREDIN, Pavel - GOLOSHCHAPOV, Dmitry - EMELYANOVA, Anna - EREMEEV, Konstantin - PESHKOV, Yaroslav - SHIKHALIEV, Khidmet - POTAPOV, Andrey - IPPOLITOV, Yury - KASHKAROV, Vladimir - NESTEROV, Dmitry - SHAPIRO, Kirill - FREITAS, Raul O. - MAHDY, Iman. A. Rapid Deposition of the Biomimetic Hydroxyapatite-Polydopamine-Amino Acid Composite Layers onto the Natural Enamel. In ACS OMEGA, 2024, vol. 9, pp. 17012-17027. ISSN 2470-1343. Dostupné na:

<https://doi.org/10.1021/acsomega.3c08491>, Registrované v: WOS

6. [1.1] SHUMOVSKAYA, K. F. - KOMSHINA, M. E. - SUKHANOV, M. V. - PLEKHOVICH, S. D. - PLEKHOVICH, A. D. - OTOPKOVA, P. A. - TROSHIN, O. Yu. - BULANOV, A. D. Isotope Effect in IR Spectra of Highly Enriched Amorphous Silicon Dioxide SUPA/SUPSiO₂ (A=28, 29, 30). In RUSSIAN JOURNAL OF INORGANIC CHEMISTRY, 2024, vol. 69, no. 9, pp. 1309-1318. ISSN 0036-0236. Dostupné na: <https://doi.org/10.1134/S0036023624601788>, Registrované v: WOS

7. [1.1] WANG, Qi - WANG, Chu-Ya - ZHOU, Heng-Deng - XUE, Dong-Xin - XIONG, Xiao-Lu - ZHU, Guangcan. Simultaneous adsorption of ammonia nitrogen and phosphate on electro-assisted magnesium/aluminum-loaded sludge-based biochar and its utilization as a plant fertilizer. In PLOS ONE, 2024, vol. 19, no. 10, art. no. e0311430. ISSN 1932-6203. Dostupné na:

<https://doi.org/10.1371/journal.pone.0311430>, Registrované v: WOS

ADCA449 KOPANI, M. - MIKULA, M. - PINČÍK, Emil - KOBAYASHI, H. - TAKAHASHI, M. FT IR spectroscopy of nitric acid oxidation of silicon with hafnium oxide very thin layer. In Applied Surface Science, 2014, vol. 301, p. 24-27. (2013: 2.538 - IF, Q1 - JCR, 0.965 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2014.01.124>

Citácie:

1. [1.1] DEVI, Meenakshi - TOMER, Shweta - PATHI, Prathap - VANDANA. Effect of films thickness and hydrogen annealing on passivation performance of plasma ALD based Hafnium oxide films. In PHYSICA SCRIPTA, 2024, vol. 99, no. 5, art. no. 055969. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad3407>, Registrované v: WOS

2. [1.1] LIN, Xiangbao - ZHENG, Lei - XU, Ping - ZENG, Chen - LIAO, Mingdong - SU, Zhean - ZHANG, Mingyu - HUANG, Qizhong. The synthesis of high sinterability (Zr, Hf)C and SiC hybrid nanocrystalline particles by sol-gel method. In CERAMICS INTERNATIONAL, 2024, vol. 50, no. 19, pp. 35430-35440. ISSN 0272-8842. Dostupné na:

<https://doi.org/10.1016/j.ceramint.2024.06.354>, Registrované v: WOS

3. [1.1] ZHANG, Renjia - TUOKEDAERHAN, Kamale - DU, Hongguo - MAIMAITI, Ahemaitijiang - IBRAIMOV, Margulan. Exploring the influence of Al content on the optical and interface properties of HfAlO_x mixed gate dielectric thin films and their applications in MOS devices. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 2024, vol. 35, no. 28, art. no. 1838. ISSN 0957-4522. Dostupné na: <https://doi.org/10.1007/s10854-024-13616-y>, Registrované v: WOS

ADCA450 KOPANI, Martin** - MIKULA, Milan - KOSNAC, Daniel - VOJTEK, Pavol - GREGUS, Jan - VAVRINSKY, Erik - JERGEL, Matej - PINČÍK, Emil. Effect of etching time on structure of p-type porous silicon. In Applied Surface Science, 2018, vol. 461, p. 44-47. (2017: 4.439 - IF, Q1 - JCR, 1.093 - SJR, Q1 - SJR, karentované -

CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2018.04.228>

Citácie:

1. [1.1] RAZALI, Nurul Syuhadah Mohd - ABD RAHIM, Alhan Farhanah - HASSAN, Nur Sabrina Mohd - RADZALI, Rosfariza - MAHMOOD, Ainorkhilah - SABKI, Syarifah Norfaezah - HAMZAH, Irni Hamiza - IDRIS, Mohaiyedid - MOHAMED, Mohamed Fauzi Packeer. Hexagonal Enhanced Porous GaN with Delayed Integrated Pulse Electrochemical (iPEC) Etching. In INTERNATIONAL JOURNAL OF NANOELECTRONICS AND MATERIALS, 2024, vol. 17, no. 4, pp. 521-528. ISSN 1985-5761., Registrované v: WOS

2. [1.1] REBHI, Ameni - AMRI, Chohdi - KHEMISSI, Ines - ZAGHOUBANI, Rabia Benabderrahmane - GAIDI, Mounir - HAJJAJI, Anouar - CHOUBANI, Karim - ALMESHAAL, Mohammed A. - PAPATHI, Murugesan Palaniappan - BEN RABHA, Mohamed. Porous silicon layer decorated with PbS nanoparticles by SILAR method for enhanced photocatalytic degradation of amido black dye. In JOURNAL OF NANOPARTICLE RESEARCH, 2024, vol. 26, no. 3, art. no. 47. ISSN 1388-0764. Dostupné na: <https://doi.org/10.1007/s11051-024-05957-w>, Registrované v: WOS

ADCA451 KOPANI, Martin** - MIKULA, Milan - KOSNAC, Daniel - KOVAC, Jaroslav - TRNKA, Michal - GREGUS, Jan - JERIGOVA, Monika - JERGEL, Matej - VAVRINSKY, Erik - BAČOVÁ, Silvia - ZITTO, Peter - POLAK, Stefan - PINČÍK, Emil. Effect of etching time in hydrofluoric acid on the structure and morphology of n-type porous silicon. In Applied Surface Science, 2020, vol. 532, art. no. 147463. (2019: 6.182 - IF, Q1 - JCR, 1.230 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2020.147463>

Citácie:

1. [1.1] CUI, Licong - LIU, Renxing - CHEN, Tingting - HE, Wang - QIAN, Linmao - YU, Bingjun. Site-Controlled Preparation of Au Micro/Nanostructures Toward Enhancing Raman Scattering. In ACS APPLIED NANO MATERIALS, 2024, vol. 7, no. 3, pp. 3138-3146. Dostupné na:

<https://doi.org/10.1021/acsanm.3c05468>, Registrované v: WOS

ADCA452 KORYTÁR, Dušan** - ZÁPRAŽNÝ, Zdenko - FERRARI, C. - FRIGERI, C. - JERGEL, Matej - MATKO, Igor - KEČKÉŠ, Jozef. Cross-sectional TEM study of subsurface damage in SPDT machining of germanium optics. In Applied Optics, 2018, vol. 57, no. 8, p. 1940-1943. (2017: 1.791 - IF, Q3 - JCR, 0.715 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0003-6935. Dostupné na: <https://doi.org/10.1364/AO.57.001940>

Citácie:

1. [1.1] SHI, Fangyuan - LV, Qixin - ZHOU, Ping - BAI, Qian. Polarized laser scattering detection of low-density and micron-scale subsurface cracks in silicon wafer. In PRECISION ENGINEERING-JOURNAL OF THE INTERNATIONAL SOCIETIES FOR PRECISION ENGINEERING AND NANOTECHNOLOGY, 2024, vol. 86, no., pp. 75-81. ISSN 0141-6359. Dostupné na:

<https://doi.org/10.1016/j.precisioneng.2023.11.007>, Registrované v: WOS

ADCA453 KOSCHNY, T. - MARKOŠ, Peter - SMITH, D.R. - SOUKOULIS, C.M. Resonant and antiresonant frequency dependence of the effective parameters of metamaterials. In Physical Review E, 2003, vol. 68, no. 6, art. no. 065602. (2002: 2.397 - IF, karentované - CCC). (2003 - Current Contents, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.68.065602>

Citácie:

1. [1.1] ANKIT - KISHOR, Kamal - SINHA, Ravindra Kumar. Design, fabrication,

and characterization of epsilon negative and near-zero index metasurface. In *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING*, 2024, vol. 130, no. 2, art. no. 98. ISSN 0947-8396. Dostupné na: <https://doi.org/10.1007/s00339-023-07239-z>, Registrované v: WOS

2. [1.1] HOU, Enzhu - LIANG, Zhongzhu - SHI, Xiaoyan - YANG, Fuming - ZHANG, Xiqing - DAI, Rui - ZHANG, Shoutao - LIU, Weizhen - JIA, Yan. Polarization-sensitive metamaterial absorber based on the composite grating structure in the long-wave infrared band. In *OPTICS AND LASER TECHNOLOGY*, 2024, vol. 175, no., art. no. 110676. ISSN 0030-3992. Dostupné na: <https://doi.org/10.1016/j.optlastec.2024.110676>, Registrované v: WOS

3. [1.1] LIU, Bo - LI, Lun - LI, Kewei - WANG, Xiaoqiong - TAN, Yukun - ZHAO, Shifeng - ZHOU, Wenping - XING, Shuya - YANG, Wenyun - LIU, Shunquan - CHANG, Hong. Strong microwave absorption of Fe-deficient $\text{SrFe}_{9.4}\text{Cu}_{0.8}\text{Sn}_{0.5}\text{O}_{19-d}$ with enhanced permittivity and ferromagnetic resonance by high annealing temperature. In *APPLIED PHYSICS LETTERS*, 2024, vol. 125, no. 1, art. no. 012401. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0217446>, Registrované v: WOS

4. [1.1] LOU, Qun - YIN, Jiexi - NING CHEN, Zhi. Effective Epsilon-Mu-Near-Zero Photonic Crystal With Low-Permittivity Substrate for Broadside-Beam Leaky Wave Antenna. In *IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION*, 2024, vol. 72, no. 12, pp. 9197-9207. ISSN 0018-926X. Dostupné na: <https://doi.org/10.1109/TAP.2024.3472277>, Registrované v: WOS

5. [1.1] UDDIN, Jasim - PLATTS, Jon - RAJAN, Ginu - FUNG, Wai-keung - ISLAM, Syed Zahurul - ISLAM, Muhammad Usama. Resonance Effects in Periodic and Aperiodic Lattice Structures. In *IEEE MICROWAVE MAGAZINE*, 2024, vol. 25, no. 7, pp. 63-78. ISSN 1527-3342. Dostupné na: <https://doi.org/10.1109/MMM.2023.3334598>, Registrované v: WOS

6. [1.1] VARSHNEY, Gaurav - SHREE, Shambhavi. Behavioral Resonance Alteration Using Phase Transitions in VO_2 Resonator for Thermal-Brewster Operated THz Absorber. In *IEEE TRANSACTIONS ON PLASMA SCIENCE*, 2024, vol. 52, no. 6, pp. 2377-2381. ISSN 0093-3813. Dostupné na: <https://doi.org/10.1109/TPS.2024.3406032>, Registrované v: WOS

ADCA454 KOSCHNY, Th. - MARKOŠ, Peter - ECONOMOU, E.N. - SMITH, D.R. - VIER, D.C. - SOUKOULIS, C.M. Impact of inherent periodic structure on effective medium description of left-handed and related metamaterials. In *Physical Review B*, 2005, vol. 71, no. 24, art. no. 245105. (2004: 3.075 - IF, karentované - CCC). (2005 - Current Contents). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.71.245105>

Citácie:

1. [1.1] ALI, Mohd Farman - SINGH, Anushka - GIRI, Pushpa - VARSHNEY, Gaurav. Graphene Supported Ultrathin VO_2 Resonators for Multifunctional THz Absorption. In *IEEE TRANSACTIONS ON PLASMA SCIENCE*, 2024, vol. 52, no. 2, pp. 545-552. ISSN 0093-3813. Dostupné na: <https://doi.org/10.1109/TPS.2023.3342115>, Registrované v: WOS

2. [1.1] AMIRI, Majid - ABOLHASAN, Mehran - SHARIATI, Negin - LIPMAN, Justin. Highly Efficient Polarization-Insensitive EM Energy Harvester. In *2024 18TH EUROPEAN CONFERENCE ON ANTENNAS AND PROPAGATION, EUCAP : 18th European Conference on Antennas and Propagation (EuCAP)*, 2024, vol., no. Dostupné na: <https://doi.org/10.23919/EuCAP60739.2024.10501112>, Registrované v: WOS

3. [1.1] JIANG, Xuxian - XIAO, Zhongyin - WANG, Xinwen - ZHENG, Qi. Integrated Design of a Dynamically Switchable Multi-narrowband and Wideband

Absorber. In *JOURNAL OF ELECTRONIC MATERIALS*, 2024, vol. 53, no. 6, pp. 3231-3239. ISSN 0361-5235. Dostupné na: <https://doi.org/10.1007/s11664-024-11069-x>, Registrované v: WOS

4. [1.1] MODI, Keshav Samrat - SINGH, Satya Pratap - SINHA, Ravindra Kumar - TIWARI, Umesh. Flexible Metal-Dielectric metasurface for 3-Tesla MRI image enhancement. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*, 2024, vol. 590, no., art. no. 171650. ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2023.171650>, Registrované v: WOS

5. [1.1] QIAO, Mengke - LI, Xiangcheng - CHEN, Pingan - ZHU, Yingli. Bionic Metamaterial Microwave Blackbody with Temperature Insensitivity for $C \sim Ku$ Bands. In *PLASMONICS*, 2024, vol. 19, no. 5, pp. 2537-2543. ISSN 1557-1955. Dostupné na: <https://doi.org/10.1007/s11468-023-02176-2>, Registrované v: WOS

6. [1.1] QIAO, Mengke - LI, Xiangcheng - CHEN, Pingan - ZHU, Yingli. Enhanced microwave absorption of refractory SiBCN metamaterials. In *JOURNAL OF THE AMERICAN CERAMIC SOCIETY*, 2024, vol. 107, no. 5, pp. 3360-3367. ISSN 0002-7820. Dostupné na: <https://doi.org/10.1111/jace.19661>, Registrované v: WOS

ADCA455 KOSIK, J. - MISZCZAK, J.A. - BUŽEK, Vladimír. Quantum Parrondo's game with random strategies. In *Journal of Modern Optics*, 2007, vol. 54, no. 13-15, p. 2275-2287. (2006: 1.189 - IF, Q2 - JCR, 0.570 - SJR, Q2 - SJR). ISSN 0950-0340. Dostupné na: <https://doi.org/10.1080/09500340701408722>

Citácie:

1. [1.1] MITTAL, Vikash - HUANG, Yi-Ping. Parrondo's paradox in quantum walks with inhomogeneous coins. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 5, art. no. 052440. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.110.052440>, Registrované v: WOS

2. [1.1] WALCZAK, Zbigniew - BAUER, Jaroslaw H. Parrondo's paradox in quantum walks with different shift operators. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 12, art. no. 408. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04614-4>, Registrované v: WOS

3. [1.1] XIMENES, J. J. - PIRES, M. A. - VILLAS-BOAS, J. M. Parrondo's effect in continuous-time quantum walks. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 3, art. no. 032417. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.109.032417>, Registrované v: WOS

ADCA456 KOSTIUK, Dmytro - BODIK, Michal - ŠIFFALOVIČ, Peter - JERSEL, Matej - HALAHOVETS, Yuriy - HODAS, Martin - PELLETTA, Marco - PELACH, Michal - HULMAN, Martin - ŠPITÁLSKY, Zdenko - OMASTOVÁ, Mária - MAJKOVÁ, Eva. Reliable determination of the few - layer graphene oxide thickness using Raman spectroscopy. In *Journal of Raman Spectroscopy*, 2016, vol. 47, no. 4, p. 391-394. (2015: 2.395 - IF, Q2 - JCR, 1.020 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0377-0486. Dostupné na: <https://doi.org/10.1002/jrs.4843>

Citácie:

1. [1.1] GE, Xiangyu - ZHANG, Linghao - SHI, Qiuyu - XING, Yuhao - LIU, Yanfei - CAO, Zhengfeng - WANG, Wenzhong. Facilitating macroscopic superlubricity through electric stimulation with graphene oxide nanosheet additives for steel surface lubrication. In *APPLIED SURFACE SCIENCE*, 2024, vol. 661, no., art. no. 160039. ISSN 0169-4332. Dostupné na:

<https://doi.org/10.1016/j.apsusc.2024.160039>, Registrované v: WOS

2. [1.1] JAVIDI, Mahbobeh - ENTEZARI, Mohammad H. The effect of ultrasonic waves on the structure, morphology, and thermal conductivity of graphene oxide as nanofluids for direct absorption solar collector application. In *RENEWABLE ENERGY*, 2024, vol. 237, no., art. no. 121683. ISSN 0960-1481. Dostupné na:

<https://doi.org/10.1016/j.renene.2024.121683>, Registrované v: WOS

3. [1.1] ZHANG, Linghao - SHI, Qiuyu - GE, Xiangyu. Comparative Study of the Friction Behavior of Functionalized Graphene Oxide Additives Under Electric Stimulations. In LUBRICANTS, 2024, vol. 12, no. 12, art. no. 455. Dostupné na: <https://doi.org/10.3390/lubricants12120455>, Registrované v: WOS

4. [1.2] NUAYI, A. W. - NOOR, F. A. - SUSTINI, E. - IRZAMAN - WINATA, T. Enhancing Growth of Multi-Layer Graphene Synthesis on Glass Substrate through Ni Catalyst Annealing Using Hot Wire in Plasma Very High-Frequency PECVD Method. In Journal of Physics Conference Series, 2024-01-01, 2734, 1, pp. ISSN 17426588. Dostupné na: <https://doi.org/10.1088/1742-6596/2734/1/012039>, Registrované v: SCOPUS

ADCA457 KOŠÍK, Jozef - BUŽEK, Vladimír - HILLERY, M. Quantum walks with random phase shifts. In Physical Review A, 2006, vol. 74, no. 2, art. no. 022310. (2005: 2.997 - IF, Q1 - JCR, 1.394 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, SCOPUS). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.74.022310>

Citácie:

1. [1.1] DE ALMEIDA, Graca R. M. - AMARAL, N. - BUARQUE, A. R. C. - DIAS, W. S. Noise correlations behind superdiffusive quantum walks. In PHYSICAL REVIEW E, 2024, vol. 109, no. 6, art. no. 064151. ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.109.064151>, Registrované v: WOS

2. [1.1] HAN, Qi - BAI, Ning - GOU, Lijie - WANG, Shuai - ZHANG, Rong. Quantum walk of two particles on the graphene structure graph with interaction. In PHYSICA SCRIPTA, 2024, vol. 99, no. 6, art. no. 065122. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad4bd5>, Registrované v: WOS

3. [1.1] HAN, Qi - BAI, Ning - GOU, Lijie - WANG, Shuai - ZHANG, Rong. Two-particle quantum walk on graphene structure graph. In PHYSICS LETTERS A, 2024, vol. 493, no., art. no. 129257. ISSN 0375-9601. Dostupné na: <https://doi.org/10.1016/j.physleta.2023.129257>, Registrované v: WOS

4. [1.1] LONGHI, Stefano. Incoherent non-Hermitian skin effect in photonic quantum walks. In LIGHT-SCIENCE & APPLICATIONS, 2024, vol. 13, no. 1, art. no. 95. ISSN 2095-5545. Dostupné na: <https://doi.org/10.1038/s41377-024-01438-w>, Registrované v: WOS

5. [1.1] LONGHI, Stefano. Subdiffusive dynamics in photonic random walks probed with classical light. In OPTICS LETTERS, 2024, vol. 49, no. 20, pp. 5989-5992. ISSN 0146-9592. Dostupné na: <https://doi.org/10.1364/OL.535082>, Registrované v: WOS

ADCA458 KOTOROVÁ, Soňa** - VÁRY, Tomáš - CHLPÍK, Juraj - TOUŠEK, Jiří - TOUŠKOVÁ, Jana - RUTSCH, Radka - VÉGSÖ, Karol - ŠIFFALOVIČ, Peter - NÁDAŽDY, Vojtech - MAJKOVÁ, Eva - CIRÁK, Július. The influence of surface roughness on the presence of polymorphs and defect states in P3HT layers. In Applied Surface Science, 2022, vol. 573, art. no. 151539. (2021: 7.392 - IF, Q1 - JCR, 1.147 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, CCC). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2021.151539>

Citácie:

1. [1.1] CRIADO-GONZALEZ, Miryam - MARZUOLI, Camilla - BONDI, Luca - GUTIERREZ-FERNANDEZ, Edgar - TULLI, Gabriele - LAGONEGRO, Paola - SANZ, Oihane - CRAMER, Tobias - ANTOGNAZZA, Maria Rosa - MECERREYES, David. Porous Semiconducting Polymer Nanoparticles as Intracellular Biophotonic Mediators to Modulate the Reactive Oxygen Species Balance. In NANO LETTERS, 2024, vol. 24, no. 24, pp. 7244-7251. ISSN 1530-6984. Dostupné na: <https://doi.org/10.1021/acs.nanolett.4c01195>, Registrované v:

WOS

2. [1.1] GONG, Guodong - ZHOU, You - XIONG, Ziyu - SUN, Tao - LI, Huaxin - LI, Qingxiu - ZHAO, Wenyu - ZHANG, Guohua - ZHAI, Yongbiao - LV, Ziyu - TAN, Hongwei - ZHOU, Ye - HAN, Su-Ting. An Antagonistic Photovoltaic Memristor for Bioinspired Active Contrast Adaptation. In *ADVANCED MATERIALS*, 2024, vol. 36, no. 50. ISSN 0935-9648. Dostupné na:

<https://doi.org/10.1002/adma.202409844>, Registrované v: WOS

3. [1.1] MOLEFE, Fokotsa - MOTHUDI, Bakang M. - DHLAMINI, Mokhotjwa S. The effect of deposition method and thickness dependence on the growth of P3HT for organic photovoltaic devices. In *RESULTS IN OPTICS*, 2024, vol. 16, no., art. no. 100684. Dostupné na: <https://doi.org/10.1016/j.rio.2024.100684>, Registrované v: WOS

ADCA459 KOTULIČ BUNTA, Juraj - G MUCA, Štefan. Asymmetric nuclear matter in the relativistic mean-field approach with vector cross interaction. In *Physical Review C. Nuclear physics*, 2003, vol. 68, no. 5, art. no. 054318. (2002: 2.848 - IF, karentované - CCC). (2003 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.68.054318>

Citácie:

1. [1.1] GAU, Ephraim - HAJKARIM, Fazlollah - HARRIS, Steven P. - DEV, P. S. Bhupal - FORTIN, Jean-Francois - KRAWCZYNSKI, Henric - SINHA, Kuver. New constraints on axion-like particles from IXPE polarization data for magnetars. In *PHYSICS OF THE DARK UNIVERSE*, 2024, vol. 46, no., art. no. 101709. Dostupné na: <https://doi.org/10.1016/j.dark.2024.101709>, Registrované v: WOS

2. [1.1] REED, Brendan T. - FATTOYEV, F. J. - HOROWITZ, C. J. - PIEKAREWICZ, J. Density dependence of the symmetry energy in the post-PREX-CREX era. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 3, art. no. 035803. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.035803>, Registrované v: WOS

3. [1.1] SUN, Boyang - BHATTIPROLU, Saketh - LATTIMER, James M. Compiled properties of nucleonic matter and nuclear and neutron star models from nonrelativistic and relativistic interactions. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 5, art. no. 055801. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.055801>, Registrované v: WOS

4. [1.1] THAKUR, Prashant - SHARMA, B. K. - ASHIKA, A. - SRIVISHNU, S. - JHA, T. K. Influence of the symmetry energy and σ -cut potential on the properties of pure nucleonic and hyperon-rich neutron star matter. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 2, art. no. 025805. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.025805>, Registrované v: WOS

ADCA460 KOTULIČ BUNTA, Juraj - G MUCA, Štefan. Hyperons in a relativistic mean-field approach to asymmetric nuclear matter. In *Physical Review C*, 2004, vol. 70, no. 5, art. no. 054309. (2003: 2.708 - IF, karentované - CCC). (2004 - Current Contents, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.70.054309>

Citácie:

1. [1.1] ABHISHEK, Aman - SHARMA, Sayantan. Toward a universal description of hadronic phase of QCD. In *PHYSICAL REVIEW D*, 2024, vol. 109, no. 1, art. no. 014007. ISSN 2470-0010. Dostupné na:

<https://doi.org/10.1103/PhysRevD.109.014007>, Registrované v: WOS

ADCA461 KOULOURIS, S. - SOULIOTIS, G. A. - CAPPUZZELLO, F. - CARBONE, D. - PAKOU, A. - AGODI, C. - BRISCHETTO, G. A. - CALABRES, S. - CAVALLARO, M. - CIRALDO, I. - FASOULA, O. - KLIMO, Jozef - SGOUROS, O. - SOUKERA, V. - SPATAFORA, A. - TORRESI, D. - VESELSKY, M.

Multinucleon transfer channels from ^{70}Zn (15 MeV/nucleon)+ ^{64}Ni collisions. In *Physical Review C*, 2023, vol. 108, no. 4, art. no. 044612. (2022: 3.1 - IF, Q2 - JCR, 1.305 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na:
<https://doi.org/10.1103/PhysRevC.108.044612>

Citácie:

1. [1.1] KUMAR, D. - DICKEL, T. - ZADVORNAYA, A. - BELIUSKINA, O. - KANKAINEN, A. - CONSTANTIN, P. - PURUSHOTHAMAN, S. - SPATARU, A. - STRYJCZYK, M. - AL AYOUBI, L. - BRUNET, M. - CANETE, L. - DELAFOSSE, C. - DE ROUBIN, A. - DE ROUBIN, A. - ERONEN, T. - GE, Z. - GINS, W. - HORNUNG, C. - HUKKANEN, M. - ILLANA, A. - JOKINEN, A. - KAHL, D. - KINDLER, B. - LOMMEL, B. - MARDOR, I. - MOORE, I. D. - NESTERENKO, D. A. - NICHITA, D. - NIKAS, S. - ORTIZ-CORTES, A. - PENTTILA, H. - PODOLYAK, Zs. - POHJALAINEN, I. - RAGGIO, A. - REPONEN, M. - RINTA-ANTILA, S. - ROMERO, J. - SAREN, J. - VILEN, M. - VIRTANEN, V. - WEAVER, A. - WINFIELD, J. First investigation on the isomeric ratio in multinucleon transfer reactions: Entrance channel effects on the spin distribution. In *PHYSICS LETTERS B*, 2024, vol. 853, no., art. no. 138654. ISSN 0370-2693. Dostupné na:
<https://doi.org/10.1016/j.physletb.2024.138654>, Registrované v: WOS
2. [1.1] LI, Cheng - LI, Tao - ZHANG, Xin-Rui - TIAN, Junlong - WANG, Ning - GUO, Chenchen - ZHANG, Feng-Shou. Inverse transfer mechanisms in multinucleon transfer reactions. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 4, art. no. 044615. ISSN 2469-9985. Dostupné na:
<https://doi.org/10.1103/PhysRevC.110.044615>, Registrované v: WOS

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KOVÁČOVÁ, Mária - KLEINOVÁ, Angela - VAJĎÁK, Ján - HUMPOLÍČEK, Petr - KUBÁT, Pavel - BODIK, Michal - MARKOVIČ, Zoran M. - ŠPITÁLSKY, Zdenko**. Photodynamic-active smart biocompatible material for an antibacterial surface coating. In *Journal of Photochemistry and Photobiology. B: Biology*, 2020, vol. 211, art. no. 112012, [8] p. (2019: 4.383 - IF, Q1 - JCR, 0.835 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1011-1344. Dostupné na:
<https://doi.org/10.1016/j.jphotobiol.2020.112012>

Citácie:

1. [1.1] EFIMOV, Alexander - MORDON, Serge. Photoantimicrobial and Photoantiviral Textiles: Underestimated Potential. In *PHARMACEUTICALS*, 2024, vol. 17, no. 9, art. no. 1164. Dostupné na:
<https://doi.org/10.3390/ph17091164>, Registrované v: WOS
2. [1.1] LATIF, Zeeshan - SHAHID, Kinza - ANWER, Hassan - SHAHID, Raghisa - ALI, Mumtaz - LEE, Kang Hoon - ALSHAREEF, Mubark. Carbon quantum dots (CQDs)-modified polymers: a review of non-optical applications. In *NANOSCALE*, 2024, vol. 16, no. 5, pp. 2265-2288. ISSN 2040-3364. Dostupné na: <https://doi.org/10.1039/d3nr04997c>, Registrované v: WOS

ADCA463

KOVAL, Vladimír - ŠKORVÁNEK, Ivan - ĎURIŠIN, Juraj - VIOLA, Giusuppe - KOVALČÍKOVÁ, Alexandra - ŠVEC, Peter Jr. - SAKSL, Karel - YAN, Haixue. Terbium-induced phase transitions and weak ferromagnetism in multiferroic bismuth ferrite ceramics. In *Journal of Materials Chemistry C*, 2017, vol. 5, no. 10, p. 2669-2685. (2016: 5.256 - IF, Q1 - JCR, 1.825 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2050-7526. Dostupné na:
<https://doi.org/10.1039/c6tc04060h>

Citácie:

1. [1.1] HE, J. - XIAO, S.B. - SUI, H.T. - WU, F.L. - LI, X. - YANG, C. - GONG, P.Y. - ZHU, J.N. - LIU, X.F. - SUN, H.J. Tuning ferroelectric domains and polarization properties of flexible BiFeO_3 thin films by phase transition

engineering. In *JOURNAL OF ALLOYS AND COMPOUNDS*. ISSN 0925-8388, DEC 15 2024, vol. 1008. Dostupné na:

<https://doi.org/10.1016/j.jallcom.2024.176756>, Registrované v: WOS

2. [1.1] LU, Z.Y. - LI, Z. - YANG, J.B. - WU, Y.R. - GAO, K.Y. - LIU, M.

Elucidating the Mn-Doping Induced Phase Transition from Orthorhombic Pnma to Rhombohedral R3c in LaFeO3: Insights from Mo^{<spacing>}ssbauer Spectroscopy. In *JOURNAL OF MOLECULAR STRUCTURE*. ISSN 0022-2860, APR 5 2024, vol. 1301. Dostupné na:

<https://doi.org/10.1016/j.molstruc.2023.137444>, Registrované v: WOS

3. [1.1] WU, X.F. - LUO, H. - GUO, H.Y. - LIU, J.J. - BAI, Y.L. - ZHAO, S.F.

Tuning of multiferroic traits in BiFeO3 ceramics by electronic structure. In *CERAMICS INTERNATIONAL*. ISSN 0272-8842, JUN 1 2024, vol. 50, no. 11, A, p. 18853-18867. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.02.375>, Registrované v: WOS

4. [1.2] YU, Xin Yu - WANG, Qian - LI, Hui Lin - WAN, Yi Jun - LIANG, En Meng - WANG, Chun Ming. Rare-earth praseodymium-substituted Bi5Ti3FeO15 exhibiting enhanced piezoelectric properties for high-temperature application. In *ChemPhysMater*, 2024-10-01, 3, 4, pp. 431-439. ISSN 27725715. Dostupné na:

<https://doi.org/10.1016/j.chphma.2024.06.007>, Registrované v: SCOPUS

ADCA464

KOVARICEK, Petr** - NÁDAŽDY, Peter - PLUHAROVA, Eva - BRUNOVÁ, Alica - SUBAIR, Riyas - VÉGSÖ, Karol - GUERRA, Valentino Libero Pio - VOLOCHANSKYI, Oleksandr - KALBAC, Martin - KRASNANSKY, Alexander - PANDIT, Pallavi - ROTH, Stephan Volker - HINDERHOFER, Alexander - MAJKOVÁ, Eva - JERGEL, Matej - TIAN, Jianjun - SCHREIBER, Frank - ŠIFFALOVIČ, Peter**. Crystallization of 2D Hybrid Organic-Inorganic Perovskites Templated by Conductive Substrates. In *Advanced Functional Materials*, 2021, vol. 31, no. 13, art. no. 2009007. (2020: 18.808 - IF, Q1 - JCR, 6.069 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202009007>

Citácie:

1. [1.1] KIM, Hongki - CHOI, Wonbin - KIM, Yu Jin - KIM, Jihoon - AHN, Jaeyong - SONG, Inho - KWAK, Minjoon - KIM, Jongchan - PARK, Jonghyun - YOO, Dongwon - PARK, Jungwon - KWAK, Sang Kyu - OH, Joon Hak. Giant chiral amplification of chiral 2D perovskites via dynamic crystal reconstruction. In *SCIENCE ADVANCES*, 2024, vol. 10, no. 34, art. no. eado5942. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.ado5942>, Registrované v: WOS

2. [1.1] WANG, Hailiang - SONG, Yongfa - LIN, Zedong - LI, Weiping - LIU, Huicong - WEI, Xiaozhen - ZHANG, Qixian - LV, Chunyu - ZHU, Liqun - WANG, Kexiang - LAN, Yisha - WANG, Lan - LIN, Changqing - YIN, Penggang - SONG, Tinglu - BAI, Yang - CHEN, Qi - YANG, Shihe - CHEN, Haining. In Situ Growth of a Robust 1D Capping Layer for Stable and Efficient CsPbI3 Perovskite Solar Cells Without Hole Transporter. In *ADVANCED ENERGY MATERIALS*, 2024, vol. 14, no. 16. ISSN 1614-6832. Dostupné na:

<https://doi.org/10.1002/aenm.202304038>, Registrované v: WOS

3. [1.1] YANG, Kun - KANG, Yuchong - MENG, Sheng - ZHANG, Jin - MA, Wei. Interlayer Carrier Dynamics in Two-Dimensional Perovskites Determined by the Length of Conjugated Organic Cations. In *NANO LETTERS*, 2024, vol. 24, no. 16, pp. 5057-5065. ISSN 1530-6984. Dostupné na:

<https://doi.org/10.1021/acs.nanolett.4c00851>, Registrované v: WOS

4. [1.1] ZHANG, Yongqi - KHAN, Shahbaz Ahmed - LUO, Dongxiang - LI, Guijun. Flexible perovskite light-emitting diodes for display applications and beyond. In *JOURNAL OF SEMICONDUCTORS*, 2024, vol. 45, no. 5, art. no.

051601. ISSN 1674-4926. Dostupné na: <https://doi.org/10.1088/1674-4926/45/5/051601>, Registrované v: WOS

ADCA465

KOZAK, Andrii** - SOJKOVÁ, Michaela - GUCMANN, Filip - BODIK, Michal - VÉGSÖ, Karol - DOBROČKA, Edmund - PÍŠ, I. - BONDINO, F. - HULMAN, Martin - ŠIFFALOVÍČ, Peter - ĽAPAJNA, Milan**. Effect of the crystallographic c-axis orientation on the tribological properties of the few-layer PtSe₂. In *Applied Surface Science*, 2022, vol. 605, art. no. 154883. (2021: 7.392 - IF, Q1 - JCR, 1.147 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, CCC). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2022.154883>

Citácie:

1. [1.1] MINEV, Nikolay - BUCHKOV, Krastyo - TODOROVA, Nadia - TODOROV, Rosen - VIDEVA, Vladimira - STEFANOVA, Maria - RAFAILOV, Peter - KARASHANOVA, Daniela - DIKOV, Hristosko - STRIJKOVA, Velichka - TRAPALIS, Christos - LIN, Shiuan Huei - DIMITROV, Dimitre - MARINOVA, Vera. Synthesis of 2D PtSe₂ Nanolayers on Glass Substrates and Their Integration in Near-Infrared Light Shutters. In *ACS OMEGA*, 2024, vol. 9, no. 13, pp. 14874-14886. ISSN 2470-1343. Dostupné na:

<https://doi.org/10.1021/acsomega.3c08235>, Registrované v: WOS

2. [1.1] ZENG, Shiyang - ZHAO, Minmin - LI, Fang - YANG, Zhihao - WU, Haijuan - TAN, Chao - SUN, Qiang - YANG, Lei - LEI, Li - WANG, Zegao. Crystalline Orientation-Tunable Growth of Hexagonal and Tetragonal 2H-PtSe₂ Single-Crystal Flakes. In *ADVANCED FUNCTIONAL MATERIALS*, 2024, vol. 34, no. 6. ISSN 1616-301X. Dostupné na:

<https://doi.org/10.1002/adfm.202308681>, Registrované v: WOS

ADCA466

KOZAK, Andrii** - HOFBAUEROVÁ, Monika, Benkovičová - HALAHOVETS, Yuriy - PRIBUSOVÁ SLUŠNÁ, Lenka - PRECNER, Marián - MIČUŠÍK, Matej - OROVČÍK, Ľubomír - HULMAN, Martin - STEPURA, Anastasiia - OMASTOVÁ, Mária - ŠIFFALOVÍČ, Peter - ĽAPAJNA, Milan**. Nanofriction properties of mono- and double-layer Ti₃C₂T_x MXenes. In *ACS Applied Materials & Interfaces*, 2022, vol. 14, no. 32, p. 36815-36824. (2021: 10.383 - IF, Q1 - JCR, 2.143 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.2c08963>

Citácie:

1. [1.1] FAN, X.J. - XING, Y.Q. - WU, Z. - LI, B.J. - HUANG, P. - LIU, L. Controllable interface-tailored strategy to reduce the nanotribological properties of Ti₃C₂T_x by depositing MoS₂ using atomic layer deposition. In *NANOTECHNOLOGY*. ISSN 0957-4484, FEB 12 2024, vol. 35, no. 7, art. no. 075706. Dostupné na: <https://doi.org/10.1088/1361-6528/ad0d23>, Registrované v: WOS

2. [1.1] HUSSAIN, I. - SAJJAD, U. - KEWATE, O.J. - AMARA, U. - BIBI, F. - HANAN, A. - POTPHODE, D. - AHMAD, M. - JAVED, M.S. - ROSAIAH, P. - HUSSAIN, S. - KHANJ, K. - AJMAL, Z. - PUNNIYAKOTI, S. - ALARFAJI, S.S. - KANG, J.H. - AL ZOUBI, W. - SAHOO, S. - ZHANG, K.L. Double transition-metal MXenes: Classification, properties, machine learning, artificial intelligence, and energy storage applications. In *MATERIALS TODAY PHYSICS*. ISSN 2542-5293, MAR 2024, vol. 42, art. no. 101382. Dostupné na:

<https://doi.org/10.1016/j.mtphys.2024.101382>, Registrované v: WOS

3. [1.1] SUN, L.C. - CHE, L.X. - LI, M. - CHEN, K. - LENG, X. - LONG, Y.J. - GUO, X.X. - PALMA, M. - LU, Y. Reinforced Nacre-Like MXene/Sodium Alginate Composite Films for Bioinspired Actuators Driven by Moisture and Sunlight. In *SMALL*. ISSN 1613-6810, DEC 2024, vol. 20, no. 51. Dostupné na:

<https://doi.org/10.1002/smll.202406832>, Registrované v: WOS

4. [1.2] WANG, Junhai - KAN, Yu - YAN, Tingting - LIANG, Wenfeng - ZHANG, Lixiu - LI, Xinran - GAO, Siyang. Carbon Dots@Ti3C2Tx-MXene 0D/2D Hybrid Composites toward High-Performance Lubricating Additives under Varying Temperatures. In ACS Sustainable Chemistry and Engineering, 2024-01-08, 12, 1, pp. 96-110. Dostupné na: <https://doi.org/10.1021/acssuschemeng.3c04843>, Registrované v: SCOPUS

ADCA467

KOZULIN, E.M. - KNYAZHEVA, G.N. - ITKIS, I.M. - ITKIS, M.G. - BOGACHEV, A.A. - KRUPA, Ľuboš - LOKTEV, T.A. - SMIRNOV, S.V. - ZAGREBAEV, V.I. - AYSTO, J. - TRZASKA, W.H. - RUBCHENYA, V.A. - VARDACI, E. - STEFANINI, A.M. - CINAUSERO, M. - CORRADI, L. - FIORETTO, E. - MASON, P. - PRETE, G.F. - SILVESTRI, R. - BEGNINI, S. - MONTAGNOLI, G. - SCARLASSARA, F. - HANAPPE, F. - KHLEBNIKOV, S.V. - KLIMAN, Ján - BRONDI, A. - DI NITTO, A. - MORO, R. - GELLI, N. - SZILNER, S. Investigation of the reaction $64\text{Ni} + 238\text{U}$ being an option of synthesizing element 120. In Physics Letters B, 2010, vol. 686, no. 4-5, p. 227-232. (2009: 5.083 - IF, 2.886 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2010.02.041>

Citácie:

1. [1.1] DENISOV, V. Yu. Production of superheavy nuclei in hot-fusion reactions. In PHYSICAL REVIEW C, 2024, vol. 109, no. 4, art. no. 044618. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.044618>, Registrované v: WOS

2. [1.1] LI, Liang - GUO, Lu - GODBEY, K. - UMAR, A. S. Impact of tensor forces on quasifission product yield distributions. In PHYSICAL REVIEW C, 2024, vol. 110, no. 6, art. no. 064607. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.064607>, Registrované v: WOS

3. [1.1] MAEKAWA, Hokuto - AMANO, Shota - TAKAGI, Shinya - ARITOMO, Yoshihiro. Analysis of the shell effect of fission fragments in the quasi-fission process. In INTERNATIONAL CONFERENCE ON HEAVY-ION COLLISIONS AT NEAR-BARRIER ENERGIES, FUSION 2023 : 8th International Conference on Heavy-Ion Collisions at Near-Barrier Energies (FUSION), 2024, vol. 306, no., art. no. 01039. ISSN 2100-014X. Dostupné na: <https://doi.org/10.1051/epjconf/202430601039>, Registrované v: WOS

4. [1.1] SIMENELL, Cedric - BERNARD, R. - BLANCHON, G. - GODBEYS, K. - LEEL, H. - MCGLYNN, P. - UMAR, A. S. Shell effects in fission and quasi-fission. In INTERNATIONAL CONFERENCE ON HEAVY-ION COLLISIONS AT NEAR-BARRIER ENERGIES, FUSION 2023 : 8th International Conference on Heavy-Ion Collisions at Near-Barrier Energies (FUSION), 2024, vol. 306, no., art. no. 01019. ISSN 2100-014X. Dostupné na: <https://doi.org/10.1051/epjconf/202430601019>, Registrované v: WOS

5. [1.1] VIKAS, T. K. - KAVITA, K. S. - GHOSH, T. K. - GOLDA, K. S. - JHINGAN, A. - SUGATHAN, P. - CHATTERJEE, A. - MOHIT, N. - YADAV, Abhishek - YADAV, C. - SANEESH, N. - BEHERA, B. R. - KUMAR, Ashok - RANI, Kavita - APPANNABABU, S. - DALAL, Ranjeet - THAKUR, Meenu - DUBEY, Rakesh - DUGGI, S. K. - KUMAR, Neeraj - BANERJEE, A. - RANI, A. - KUMAR, Rakesh - KAJAL - NOOR, Shoaib - ACHARYA, Jaimin - SINGH, Hardev. Investigating fusion-fission and quasifission in reaction populating SUP188/SUPPt compound nucleus. In EUROPEAN PHYSICAL JOURNAL A, 2024, vol. 60, no. 10, art. no. 202. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01416-1>, Registrované v: WOS

ADCA468

KRAJČÍ, Marián - HAFNER, Jürgen - MIHALKOVIČ, Marek. Atomic and

electronic structure of decagonal Al-Ni-Co alloys and approximant phases. In *Physical Review B*, 2000, vol. 62, no. 1, p. 243-255. (1999: 3.008 - IF, karentované - CCC). (2000 - Current Contents). ISSN 1550-235X.

Citácie:

1. [1.1] COATES, Sam - BURNIE, Dominic - SHARMA, Hem Raj - MCGRATH, Ronan. *Scanning Tunnelling Microscopy Studies of Tsai-Type Quasicrystal Approximants*. In *ISRAEL JOURNAL OF CHEMISTRY*, 2024, vol. 64, no. 10-11. ISSN 0021-2148. Dostupné na: <https://doi.org/10.1002/ijch.202300116>, Registrované v: WOS

ADCA469 KRAJČÍ, Marián - HAFNER, Jürgen. Covalent bonding and band-gap formation in ternary transition-metal di-aluminides: Al₄MnCo and related compounds. In *Journal of Physics: Condensed Matter*, 2002, vol. 14, no. 30, p. 7201-7219. (2001: 1.611 - IF, karentované - CCC). (2002 - Current Contents, WOS, SCOPUS). ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/0953-8984/14/30/310>

Citácie:

1. [1.1] KHADIM, Bazgha - MAJID, Abdul - BATOOL, Hira - ALKHEDHER, Mohammad - HAIDER, Sajjad - AKHTAR, Muhammad Saeed. *The first-principles study on electronic transport mechanism in palladium decorated graphene for inert gas sensing*. In *OPTICAL AND QUANTUM ELECTRONICS*, 2024, vol. 56, no. 3, art. no. 392. ISSN 0306-8919. Dostupné na: <https://doi.org/10.1007/s11082-023-05934-y>, Registrované v: WOS

ADCA470 KRAJČÍ, Marián - HAFNER, Jürgen. Covalent bonding and bandgap formation in intermetallic compounds:: a case study for Al₃V. In *Journal of Physics: Condensed Matter*, 2002, vol. 14, no. 8, p. 1865-1879. (2001: 1.611 - IF, karentované - CCC). (2002 - Current Contents, WOS, SCOPUS). ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/0953-8984/14/8/314>

Citácie:

1. [1.1] BOULECHFAR, R. - SAYAD, D. - KHENIOUI, Y. - MERADJI, H. - GHEMID, S. - KHENATA, R. - BIN-OMRAN, S. - BOUHEMADOU, A. - GOUMRI-SAID, Souraya. *Theoretical investigations of Zr-concentration influence on the thermodynamic, elastic, electronic, and structural stability of D0₂₂/L1₂-Al₃Ti*. In *EUROPEAN PHYSICAL JOURNAL B*, 2024, vol. 97, no. 1, art. no. 1. ISSN 1434-6028. Dostupné na: <https://doi.org/10.1140/epjb/s10051-023-00643-7>, Registrované v: WOS

2. [1.1] MNISI, B. O. - BENECHA, E. M. - TIBANE, M. M. *Investigation of the thermodynamic, structural, electronic, mechanical and phonon properties of D0_c Ru-based intermetallic alloys: an ab-initio study*. In *MATERIALS RESEARCH EXPRESS*, 2024, vol. 11, no. 4, art. no. 046506. Dostupné na: <https://doi.org/10.1088/2053-1591/ad3a40>, Registrované v: WOS

ADCA471 KRAJČÍ, Marián - HAFNER, Jürgen. Semiconducting Al-transition-metal quasicrystals. In *Physical Review B*, 2003, vol. 68, no. 16, art. no. 165202. (2002: 3.327 - IF, karentované - CCC). (2003 - Current Contents). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.68.165202>

Citácie:

1. [1.1] NAGAI, Yuki - IWASAKI, Yutaka - KITAHARA, Koichi - TAKAGIWA, Yoshiki - KIMURA, Kaoru - SHIGA, Motoyuki. *High-Temperature Atomic Diffusion and Specific Heat in Quasicrystals*. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 19, art. no. 196301. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.196301>, Registrované v: WOS

ADCA472 KRAJČÍ, Marián - WINDISCH, M. - HAFNER, J. - KRESSE, G. - MIHALKOVIČ, Marek. Atomic and electronic-structure of icosahedral al-pd-mn alloys and approximant phases. In *Physical Review B*, 1995, vol. 51, no. 24, p. 17355-17378.

(1994: 3.187 - IF, karentované - CCC). (1995 - Current Contents). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.51.17355>

Citácie:

1. [1.1] COATES, Sam - BURNIE, Dominic - SHARMA, Hem Raj - MCGRATH, Ronan. Scanning Tunnelling Microscopy Studies of Tsai-Type Quasicrystal Approximants. In ISRAEL JOURNAL OF CHEMISTRY, 2024, vol. 64, no. 10-11. ISSN 0021-2148. Dostupné na: <https://doi.org/10.1002/ijch.202300116>,

Registrované v: WOS

2. [1.1] NAGAI, Yuki - IWASAKI, Yutaka - KITAHARA, Koichi - TAKAGIWA, Yoshiki - KIMURA, Kaoru - SHIGA, Motoyuki. High-Temperature Atomic Diffusion and Specific Heat in Quasicrystals. In PHYSICAL REVIEW LETTERS, 2024, vol. 132, no. 19, art. no. 196301. ISSN 0031-9007. Dostupné na:

<https://doi.org/10.1103/PhysRevLett.132.196301>, Registrované v: WOS

ADCA473 KRAJČÍ, Marián - HAFNER, J. - MIHALKOVIČ, Marek. Atomic and electronic structure of decagonal Al-Pd-Mn alloys and approximant phases. In Physical Review B : condensed matter and materials physics, 1997, vol. 55, no. 2, p. 843-855. (1996: 2.975 - IF, karentované - CCC). (1997 - Current Contents). ISSN 1550-235X.

Citácie:

1. [1.1] COATES, Sam - BURNIE, Dominic - SHARMA, Hem Raj - MCGRATH, Ronan. Scanning Tunnelling Microscopy Studies of Tsai-Type Quasicrystal Approximants. In ISRAEL JOURNAL OF CHEMISTRY, 2024, vol. 64, no. 10-11. ISSN 0021-2148. Dostupné na: <https://doi.org/10.1002/ijch.202300116>,

Registrované v: WOS

ADCA474 KRAJČÍ, Marián - HAFNER, Jürgen. Fermi surfaces and electronic transport properties of quasicrystalline approximants. In Journal of Physics: Condens.Matter., 2001, vol. 13, no. 17, p. 3817-3830. (2000: 1.608 - IF, karentované - CCC). (2001 - Current Contents, WOS, SCOPUS). ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/0953-8984/13/17/302>

Citácie:

1. [1.1] SPONZA, Lorenzo - VU, Van Binh - RICHAUD, Elisa Serrano - AMARA, Hakim - LATIL, Sylvain. Emergence of flat bands in the quasicrystal limit of boron nitride twisted bilayers. In PHYSICAL REVIEW B, 2024, vol. 109, no. 16, art. no. L161403. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.109.L161403>, Registrované v: WOS

ADCA475 KRAJČÍ, Marián - HAFNER, J. Pseudomorphic quasiperiodic alkali metal monolayers on an i-Al-Pd-Mn surface. In Physical Review B, 2007, vol. 75, no. 22, art. no. 224205. (2006: 3.107 - IF, Q1 - JCR, 2.620 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.75.224205>

Citácie:

1. [1.1] SHARMA, Hem Raj - NUGENT, Peter John - COATES, Sam - MCGRATH, Ronan. Quasicrystalline Antimony Thin Films. In ISRAEL JOURNAL OF CHEMISTRY, 2024, vol. 64, no. 10-11. ISSN 0021-2148. Dostupné na:

<https://doi.org/10.1002/ijch.202300135>, Registrované v: WOS

ADCA476 KRAJČÍ, Marián - HAFNER, J. Topologically induced semiconductivity in icosahedral Al-Pd-Re and its approximants. In Physical Review B, 2007, vol. 75, no. 2, art. no. 024116. (2006: 3.107 - IF, Q1 - JCR, 2.620 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.75.024116>

Citácie:

1. [1.1] NAGAI, Yuki - IWASAKI, Yutaka - KITAHARA, Koichi - TAKAGIWA, Yoshiki - KIMURA, Kaoru - SHIGA, Motoyuki. High-Temperature Atomic

- Diffusion and Specific Heat in Quasicrystals. In PHYSICAL REVIEW LETTERS, 2024, vol. 132, no. 19, art. no. 196301. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.196301>, Registrované v: WOS*
- ADCA477 KRAJČÍ, Marián - KAMEOKA, Satoshi - TSAI, An-Pang. Understanding the catalytic activity of nanoporous gold: Role of twinning in fcc lattice. In Journal of Chemical Physics, 2017, vol. 147, no. 4, art. no. 044713. (2016: 2.965 - IF, Q2 - JCR, 1.486 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/1.4994701>
- Citácie:
1. [1.1] LASEMI, Niusha - WICHT, Thomas - BERNARDI, Johannes - LIEDL, Gerhard - RUPPRECHTER, Guenther. Defect-Rich CuZn Nanoparticles for Model Catalysis Produced by Femtosecond Laser Ablation. In ACS APPLIED MATERIALS & INTERFACES, 2024, vol. 16, no. 29, pp. 38163-38176. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.4c07766>, Registrované v: WOS
- ADCA478 KRAJČÍ, Marián - HAFNER, J. The (210) surface of intermetallic B20 compound GaPd as a selective hydrogenation catalyst: A DFT study. In Journal of Catalysis, 2012, vol. 295, p. 70-80. (2011: 6.002 - IF, Q1 - JCR, 3.092 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0021-9517. Dostupné na: <https://doi.org/10.1016/j.jcat.2012.07.025>
- Citácie:
1. [1.2] SICIUS, Hermann. Handbook of the chemical elements. In Handbook of the Chemical Elements, 2024-10-28, pp. 1-1136. ISBN [9783662689202, 9783662689219]. Dostupné na: <https://doi.org/10.1007/978-3-662-68921-9>, Registrované v: SCOPUS
- ADCA479 KRAJČÍ, Marián - HAFNER, J. Selective semi-hydrogenation of acetylene: Atomistic scenario for reactions on the polar threefold surfaces of GaPd. In Journal of Catalysis, 2014, vol. 312, p. 232-248. (2013: 6.073 - IF, Q1 - JCR, 2.560 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0021-9517. Dostupné na: <https://doi.org/10.1016/j.jcat.2014.02.001>
- Citácie:
1. [1.1] DENG, Yujie - LI, Fengquan - MA, Xinyuan - XIANG, Yanping - TANG, Liuqing - WU, Yajuan. Pd-doped Ni nanocatalyst with high Pd utilization for semi-hydrogenation of phenylacetylene at ambient conditions. In MOLECULAR CATALYSIS, 2024, vol. 553, no., art. no. 113734. ISSN 2468-8231. Dostupné na: <https://doi.org/10.1016/j.mcat.2023.113734>, Registrované v: WOS
- ADCA480 KRAJČÍ, Marián - TSAI, A.-P. - HAFNER, J. Understanding the selectivity of methanol steam reforming on the (111) surfaces of NiZn, PdZn and PtZn: Insights from DFT. In Journal of Catalysis, 2015, vol. 330, p. 6-18. (2014: 6.921 - IF, Q1 - JCR, 2.688 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0021-9517. Dostupné na: <https://doi.org/10.1016/j.jcat.2015.06.020>
- Citácie:
1. [1.1] CHEN, Bin - WANG, Zonghua. Research Progress on Characteristics of On-Line Hydrogen Production by Methanol Steam Reforming. In ENERGY TECHNOLOGY, 2024, vol. 12, no. 12. ISSN 2194-4288. Dostupné na: <https://doi.org/10.1002/ente.202400987>, Registrované v: WOS
2. [1.1] IWAMURA, Kazuya - OTANI, Yusuke - TAKAHASHI, Yuki - ISHII, Yasushi - NOZAWA, Kazuki. First-Principles Study of Adsorption of Atomic Oxygen on PdZn(111) Surface. In MATERIALS TRANSACTIONS, 2024, vol. 65, no. 9, pp. 1126-1130. ISSN 1345-9678. Dostupné na: <https://doi.org/10.2320/matertrans.MT-M2024060>, Registrované v: WOS
3. [1.1] JIANG, Tao - LI, Yuting - TANG, Yu - ZHANG, Shiran - LE, Duy -

RAHMAN, Talat S. - TAO, Franklin. *Breaking Continuously Packed Bimetallic Sites to Singly Dispersed on Nonmetallic Support for Efficient Hydrogen Production*. In ACS APPLIED MATERIALS & INTERFACES, 2024, vol. 16, no. 17, pp. 21757-21770. ISSN 1944-8244. Dostupné na:

<https://doi.org/10.1021/acsami.3c18160>, Registrované v: WOS

4. [1.1] JIANG, Yongjie - HUANG, Yucheng - GUO, Hui - ZHU, Hong - CHEN, Zhao-Xu. *Comparative simulations of methanol steam reforming on PdZn alloy using kinetic Monte Carlo and mean-field microkinetic model*. In JOURNAL OF CHEMICAL PHYSICS, 2024, vol. 161, no. 2, art. no. 024701. ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/5.0206139>, Registrované v: WOS

5. [1.1] TANG, Xincheng - WU, Yanxiao - FANG, Zhenchang - DONG, Xinyu - DU, Zhongxuan - DENG, Bica - SUN, Chunhua - ZHOU, Feng - QIAO, Xinqi - LI, Xinling. *Syntheses, catalytic performances and DFT investigations: A recent review of copper-based catalysts of methanol steam reforming for hydrogen production*. In ENERGY, 2024, vol. 295, no., art. no. 131091. ISSN 0360-5442. Dostupné na: <https://doi.org/10.1016/j.energy.2024.131091>, Registrované v: WOS

6. [1.1] WANG, Huimin - FANG, Zhaolin - WANG, Yaxin - MENG, Kong - SUN, Shaorui. *The study of strong metal-support interaction enhanced PdZn alloy nanocatalysts for methanol steam reforming*. In JOURNAL OF ALLOYS AND COMPOUNDS, 2024, vol. 986, no., art. no. 174006. ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.174006>, Registrované v: WOS

7. [1.1] WANG, Yueming - MEN, Yong - LIAO, Lini - FU, Lijie - LU, Zaiwei - XU, Shuyi - WANG, Jinguo - YAN, Zhenrong - MIAO, Xuelong. *Oxygen vacancy engineering in ZnO/ZrO₂ composite catalysts for highly enhanced hydrogen production by methanol steam reforming*. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, 2024, vol. 701, no., art. no. 134924. ISSN 0927-7757. Dostupné na:

<https://doi.org/10.1016/j.colsurfa.2024.134924>, Registrované v: WOS

ADCA481

KRAJČÍ, Marián - KAMEOKA, S. - TSAI, An-Pang. *Twinning in fcc lattice creates low-coordinated catalytically active sites in porous gold*. In Journal of Chemical Physics, 2016, vol. 145, no. 8, art. no. 084703. (2015: 2.894 - IF, Q2 - JCR, 1.255 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/1.4961508>

Citácie:

1. [1.1] MONDAL, Imran - SAMANTA, Dipanjan - SHAIK, Md Abdus Salam - SHAW, Manisha - BHATTACHARYA, Angana - BASU, Rajarshi - PATHAK, Amita. *Influence of Nitrogen-Doped Carbon Dots on HSUP•/SUP Radical-Mediated Au-H Formation in the Hydrogenation of 4-Nitrophenol Using NCDs-Au Nanohybrids*. In LANGMUIR, 2024, vol. 40, no. 36, pp. 19228-19238. ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.4c02422>, Registrované v: WOS

ADCA482

KRAJČÍ, Marián - HAFNER, J. *Intermetallic compounds as selective heterogeneous catalysts: insights from DFT*. In ChemCatChem, 2016, vol. 8, no. 1, p. 34-48. (2015: 4.724 - IF, Q1 - JCR, 1.731 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1867-3880. Dostupné na: <https://doi.org/10.1002/cctc.201500733>

Citácie:

1. [1.1] HE, Zhengda - OUYANG, Bin. *Charting the electronic structure for discovering low-cost intermetallic catalysts*. In JOURNAL OF MATERIALS CHEMISTRY A, 2024, vol. 12, no. 33, pp. 21987-21996. ISSN 2050-7488. Dostupné na: <https://doi.org/10.1039/d4ta03880k>, Registrované v: WOS

2. [1.1] LOWE, M. - AL-MAHBOOB, A. - IVARSSON, D. - ARMBRUESTER, M. - ARDINI, J. - HELD, G. - MACCHEROZZI, F. - BAYER, A. - FOURNEE, V. -

LEDIEU, J. - SADOWSKI, J. T. - MCGRATH, R. - SHARMA, H. R. Atomic structure of different surface terminations of polycrystalline ZnPd. In *PHYSICAL REVIEW MATERIALS*, 2024, vol. 8, no. 10, art. no. 105801. ISSN 2475-9953. Dostupné na: <https://doi.org/10.1103/PhysRevMaterials.8.105801>, Registrované v: WOS

3. [1.1] SHARMA, Unnatti - NGUYEN, Angela - KITCHIN, John R. - ULISSI, Zachary W. - JANIK, Michael J. Enumeration of surface site nuclearity and shape in a database of intermetallic low-index surface facets. In *JOURNAL OF CATALYSIS*, 2024, vol. 440, no., art. no. 115795. ISSN 0021-9517. Dostupné na: <https://doi.org/10.1016/j.jcat.2024.115795>, Registrované v: WOS

4. [1.2] GAO, Biao - WEN, Zhang - WANG, Yifu - CHEN, Donghang - YANG, Bin - ISHIHARA, Tatsumi - GUO, Limin. Recent Advances in Alloy Catalysts for CO₂ Hydrogenation to Methanol. In *Chemcatchem*, 2024-10-07, 16, 19, pp. ISSN 18673880. Dostupné na: <https://doi.org/10.1002/cctc.202400814>, Registrované v: SCOPUS

ADCA483 KRAJČÍ, Marián - HAFNER, J. Semihydrogenation of acetylene on the (010) surface of GaPd₂: Ga enrichment improves selectivity. In *Journal of Physical Chemistry C*, 2014, vol. 118, no. 23, p. 12285-12301. (2013: 4.835 - IF, Q1 - JCR, 2.134 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/jp5025075>

Citácie:

1. [1.1] WONGLAKHON, Tanakorn - MAISEL, Sven - GOERLING, Andreas - ZAHN, Dirk. Local Charge Distribution in GaxPdy Intermetallics: Characterizing Catalyst Surfaces from Large-Scale Molecular Mechanics Simulations. In *CRYSTALS*, 2024, vol. 14, no. 7, art. no. 592. Dostupné na: <https://doi.org/10.3390/cryst14070592>, Registrované v: WOS

ADCA484 KRAJČÍ, Marián - HAFNER, J. Structure and chemical reactivity of the polar three-fold surfaces of GaPd: A density-functional study. In *Journal of Chemical Physics*, 2013, vol. 138, no. 12, art. no. 124703. (2012: 3.164 - IF, Q1 - JCR, 1.832 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/1.4795435>

Citácie:

1. [1.1] ROBLES, Roberto - LORENTE, Nicolas. Asymmetric Energy Barriers in Unidirectional Molecule-Rotors. In *CROSSROAD OF MAXWELL DEMON*, 2024, vol., no., pp. 159-177. ISSN 2193-9691. Dostupné na: https://doi.org/10.1007/978-3-031-57904-2_8, Registrované v: WOS

ADCA485 KRAJČÍ, Marián - HAFNER, J. Intermetallic compound AlPd as a selective hydrogenation catalyst: A DFT study. In *Journal of Physical Chemistry C*, 2012, vol. 116, no. 10, p. 6307-6319. (2011: 4.805 - IF, Q1 - JCR, 2.339 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/jp212317u>

Citácie:

1. [1.1] LIU, Huibin - CHEN, Xiao - LIU, Shiyao - DU, Yan - ZHU, Wenjun - HU, Zhengwen - ARMBRUESTER, Marc - LIANG, Changhai. Catalysts Derived from Al-Ni Intermetallic Compounds for Efficient Selective Semihydrogenation of Phenylacetylene. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*, 2024, vol. 63, no. 8, pp. 3608-3620. ISSN 0888-5885. Dostupné na: <https://doi.org/10.1021/acs.iecr.3c04134>, Registrované v: WOS

2. [1.1] WANG, Jiayi - XU, Haoxiang - WU, Jianguo - ZHANG, Fengyu - CHE, Chunxia - ZHU, Jiqin - FENG, Juntong - CHENG, Daojian. Rational Design of Alloy Catalysts for Alkyne Semihydrogenation via Descriptor-Based High-Throughput Screening. In *ACS CATALYSIS*, 2024, vol. 14, no. 2, pp. 1220-1230.

ISSN 2155-5435. Dostupné na: <https://doi.org/10.1021/acscatal.3c02398>,

Registrované v: WOS

ADCA486

KRAJČÍ, Marián - HAFNER, J. Complex intermetallic compounds as selective hydrogenation catalysts - A case study for the (100) surface of Al₁₃Co₄. In *Journal of Catalysis*, 2011, vol. 278, no. 2, p. 200-207. (2010: 5.415 - IF, Q1 - JCR, 3.380 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0021-9517. Dostupné na: <https://doi.org/10.1016/j.jcat.2010.12.004>

Citácie:

1. [1.1] SONG, Yuan-Jun - GUO, Sijie - XIA, Peng - SUN, Fei - CHEN, Ze-Xian - YANG, Shi-Han - ZHANG, Xiao-Yang - ZHANG, Tong. Development of supported intermetallic compounds: advancing the Frontiers of heterogeneous catalysis. In *NANOSCALE HORIZONS*, 2024, vol. 10, no. 1, pp. 16-37. ISSN 2055-6756.

Dostupné na: <https://doi.org/10.1039/d4nh00337c>, Registrované v: WOS

2. [1.1] ZIEBA, Amelia - STAN-GLOWINSKA, Katarzyna - DURACZYNSKA, Dorota - LITYNSKA-DOBRZYNSKA, Lidia. Rapidly solidified Al-Cu-Co quasicrystalline alloy: microstructure and catalytic properties. In *ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING*, 2024, vol. 24, no. 2, art. no. 127. ISSN 1644-9665. Dostupné na: <https://doi.org/10.1007/s43452-024-00904-x>,

Registrované v: WOS

3. [1.1] ZIEBA, Amelia - STAN-GLOWINSKA, Katarzyna - DURACZYNSKA, Dorota - MARZEC, Mateusz - GORAL, Anna - CZAJA, Pawel - ROGAL, Lukasz - LITYNSKA-DOBRZYNSKA, Lidia. Al-Ni-Co decagonal quasicrystal application as an energy-effective catalyst for phenylacetylene hydrogenation. In *SUSTAINABLE MATERIALS AND TECHNOLOGIES*, 2024, vol. 41, no., art. no. e01055. ISSN 2214-9937. Dostupné na:

<https://doi.org/10.1016/j.susmat.2024.e01055>, Registrované v: WOS

ADCA487

KRAJŇÁK, Tomáš** - MINÁRIK, Peter - STRÁSKÝ, Josef - MÁTHIS, Kristián - JANEČEK, Miloš. Mechanical properties of ultrafine-grained AX41 magnesium alloy at room and elevated temperatures. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing*, 2018, vol. 731, p. 438-445. (2017: 3.414 - IF, Q1 - JCR, 1.694 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2017.10.076>

Citácie:

1. [1.1] LI, Ming - YAO, Mengling - YANG, Yuhang - ZHAO, Gaozhan - WANG, Yongxiang - SHU, Dayu - CHAI, Shuxin - ZHANG, Feiyue - XIA, Xiangsheng - WAN, Yuanyuan - WANG, Hongxia. Effect of Hot Extrusion on Microstructure, Texture, and Mechanical Properties of Mg-Zn-Mn-0.5Ca Alloy. In *METALS*, 2024, vol. 14, no. 10, art. no. 1112. Dostupné na: <https://doi.org/10.3390/met14101112>, Registrované v: WOS

2. [1.1] NIU, Enci - ZHANG, Kunmin - TONG, Jun - OUYANG, Sihui - TANG, Aitao - CHEN, Xianhua - QIAO, Liying - WANG, Yong - SHE, Jia - PAN, Fusheng. Study on the microstructure and properties of AZ31 alloy by hot die forging extrusion. In *JOURNAL OF MATERIALS RESEARCH*, 2024, vol. 39, no. 11, pp. 1622-1632. ISSN 0884-2914. Dostupné na: <https://doi.org/10.1557/s43578-024-01333-5>, Registrované v: WOS

3. [1.1] ULLMANN, Madlen - KITTNER, Kristina - PRAHL, Ulrich. Cold Formability of Twin-Roll Cast, Rolled and Annealed Mg Strips. In *METALS*, 2024, vol. 14, no. 1, art. no. 121. Dostupné na: <https://doi.org/10.3390/met14010121>, Registrované v: WOS

ADCA488

KRAJŇÁK, Tomáš** - MINÁRIK, P. - STRÁSKÁ, J. - GUBICZA, J. - MÁTHIS, K. - JANEČEK, M. Influence of equal channel angular pressing temperature on

texture, microstructure and mechanical properties of extruded AX41 magnesium. In Journal of Alloys and Compounds, 2017, vol. 705, p. 273-282. (2016: 3.133 - IF, Q1 - JCR, 0.954 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2017.02.061>

Citácie:

1. [1.1] KHALEGHI, A. A. - SALEVATI, M. A. - SABBAGHIAN, M. - FEKETE-HORVATH, K. - DROZDENKO, D. - MATHIS, K. - AKBARIPANAH, F. Comparing the microstructural and mechanical improvements of AZ80/SiC nanocomposite using DECLE and MDF processes. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 2024, vol. 892, no., art. no. 146020. ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2023.146020>, Registrované v: WOS

2. [1.1] TOLOUIE, Ebrahim - JAMAATI, Roohollah. Effect of Initial $\langle 0001 \rangle$ RD Orientation on the Rolling Texture of AZ91 Alloy. In METALLOGRAPHY MICROSTRUCTURE AND ANALYSIS, 2024, vol. 13, no. 2, pp. 332-338. ISSN 2192-9262. Dostupné na: <https://doi.org/10.1007/s13632-024-01071-4>, Registrované v: WOS

3. [1.1] WU, Fan - SONG, Bo - CHEN, Ya-nan - LIU, Tingting - QIU, Risheng - GUO, Ning - GUO, Shengfeng. Regulating precipitate characteristics in a rolled AZ80 alloy based on twinning and de-twinning deformation. In MATERIALS CHARACTERIZATION, 2024, vol. 217, no., art. no. 114363. ISSN 1044-5803. Dostupné na: <https://doi.org/10.1016/j.matchar.2024.114363>, Registrované v: WOS

4. [1.1] ZHANG, Ling - LI, Yinglong. Dynamic recrystallization mechanism, texture evolution development and mechanical characteristics of a Mg-8.7Gd-4.18Y-0.42Zr magnesium alloy by ECAP. In PROGRESS IN NATURAL SCIENCE-MATERIALS INTERNATIONAL, 2024, vol. 34, no. 2, pp. 376-388. ISSN 1002-0071. Dostupné na: <https://doi.org/10.1016/j.pnsc.2024.04.002>, Registrované v: WOS

ADCA489 KRAUS, L. - ZAVETA, K. - HECZKO, O. - DUHAJ, Pavol - VLASÁK, Gabriel - SCHNEIDER, J. Magnetic-anisotropy in as-quenched and stress-annealed amorphous and nanocrystalline Fe_{73.5}Cu₁Nb₃Si_{13.5}b₉ alloys. In Journal of Magnetism and Magnetic Materials, 1992, vol. 112, no. 1-3, p. 275-277. ISSN 0374-4884. Dostupné na: [https://doi.org/10.1016/0304-8853\(92\)91172-P](https://doi.org/10.1016/0304-8853(92)91172-P)

Citácie:

1. [1.1] MU, Chunyang - HU, Limeng - ZHU, Fangliang - CUI, Zhen - HE, Aina - DONG, Yaqiang - MAN, Qikui - MA, Haoran - LI, Jiawei. Effects of drawing and tension stress annealing on the structure and magnetic properties of Co-based amorphous wire. In JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, 2024, vol. 589, no., art. no. 171569. ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2023.171569>, Registrované v: WOS

2. [1.2] HAN, Yu - YANG, Fuyao - LIU, Yang - WANG, Cong - GAO, Jie - SUN, Hao - LIU, Chengyu. Development Status and Prospect of High Frequency Transformers and Core Materials for Large-scale Renewable Energy Consumption. In Gaodianya Jishu High Voltage Engineering, 2024-09-30, 50, 9, pp. 3965-3977. ISSN 10036520. Dostupné na: <https://doi.org/10.13336/j.1003-6520.hve.20231627>, Registrované v: SCOPUS

ADCA490 KRČMÁR, Roman - GENZOR, Jozef - LEE, Yoju - VARGOVÁ, Hana - NISHINO, Tomotoshi - GENDIAR, Andrej. Tensor-network study of a quantum phase transition on the Sierpinski fractal. In Physical Review E, 2018, vol. 98, no. 6, art. no. 062114. (2017: 2.284 - IF, Q1 - JCR, 0.979 - SJR, Q1 - SJR, karentované - CCC). (2018 -

Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na:

<https://doi.org/10.1103/PhysRevE.98.062114>

Citácie:

1. [1.1] AKIMENKO, S. S. - MYSHLYAVTSEV, A. Tensor networks for hierarchical lattices. In *EPL*, 2024, vol. 148, no. 6, art. no. 61001. ISSN 0295-5075. Dostupné na: <https://doi.org/10.1209/0295-5075/ad994b>, Registrované v: WOS

2. [1.1] KOCH, Georg - POSAZHENNIKOVA, Anna. Loop current states and their stability in small fractal lattices of Bose-Einstein condensates. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 3, art. no. 033301. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.033301>, Registrované v: WOS

3. [1.1] MANNA, Sourav - JAWOROWSKI, Blazej - NIELSEN, Anne E. B. Many-body localization on finite generation fractal lattices. In *JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT*, 2024, vol. 2024, no. 5, art. no. 053301. ISSN 1742-5468. Dostupné na: <https://doi.org/10.1088/1742-5468/ad4538>, Registrované v: WOS

4. [1.1] ROJO-FRANCAS, Abel - PANSARI, Priyanshu - BHATTACHARYA, Utso - JULIA-DIAZ, Bruno - GRASS, Tobias. Anomalous quantum transport in fractal lattices. In *COMMUNICATIONS PHYSICS*, 2024, vol. 7, no. 1, art. no. 259. ISSN 2399-3650. Dostupné na: <https://doi.org/10.1038/s42005-024-01747-x>, Registrované v: WOS

ADCA491 KRČMÁR, Roman** - GENDIAR, Andrej - NISHINO, T. Entanglement-Entropy Study of Phase Transitions in Six-State Clock Model. In *Acta Physica Polonica A*, 2020, vol. 137, no. 5, p. 598-600. (2019: 0.579 - IF, Q4 - JCR, 0.214 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 1898-794X. Dostupné na: <https://doi.org/10.12693/APhysPolA.137.598>

Citácie:

1. [1.1] CHATELAIN, C. CTMRG study of the critical behavior of an interacting-dimer model. In *JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT*, 2024, vol. 2024, no. 8, art. no. 083201. ISSN 1742-5468.

Dostupné na: <https://doi.org/10.1088/1742-5468/ad5c5d>, Registrované v: WOS

ADCA492 KRČMÁR, Roman - GENDIAR, Andrej - NISHINO, T. Phase diagram of a truncated tetrahedral model. In *Physical Review E*, 2016, vol. 94, no. 2, art. no. 022134. (2015: 2.252 - IF, Q1 - JCR, 1.183 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.94.022134>

Citácie:

1. [1.1] ASSI, Benoit - LAMM, Henry. Digitization and subduction of SU(N) gauge theories. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 7, art. no. 074511. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.074511>, Registrované v: WOS

2. [1.1] GUSTAFSON, Erik J. - LAMM, Henry - LOVELACE, Felicity. Primitive quantum gates for an SU(2) discrete subgroup: Binary octahedral. In *PHYSICAL REVIEW D*, 2024, vol. 109, no. 5, art. no. 054503. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.109.054503>, Registrované v: WOS

ADCA493 KRIŠTIÁKOVÁ, Katarína - ŠAUŠA, Ondrej - KRIŠTIÁK, Jozef - JÁNOŠ, S. Positron-annihilation anomaly in the high-temperature superconductor YBA2CU3O7-X. In *Zeitschrift für Physik B. Condensed Matter*, 1989, vol. 77, no. 2, p. 197-199. ISSN 0722-3277. Dostupné na: <https://doi.org/10.1007/BF01313663>

Citácie:

1. [1.1] LI, Yao - HUANG, Liupiao - ZHOU, Shujing - LI, Jinjing - QI, Chenze - TAO, Hongyu. Synthesis and investigation of sustainable long-chain branched

poly(lactic acid-r-malic acid) copolymer as toughening agent for PLA blends. In POLYMER, 2024, vol. 293, no., art. no. 126634. ISSN 0032-3861. Dostupné na: <https://doi.org/10.1016/j.polymer.2023.126634>, Registrované v: WOS

2. [1.1] ZHOU, Shujing - YU, Haoyun - LI, Yao - QI, Chenze - LI, Jinjing. Preparation and characterization of PLA/PBAT blends toughened by poly(lactic acid-r-malic acid) copolymer. In COLLOID AND POLYMER SCIENCE, 2024, vol. 302, no. 8, pp. 1201-1207. ISSN 0303-402X. Dostupné na: <https://doi.org/10.1007/s00396-024-05252-z>, Registrované v: WOS

ADCA494 KRÍŽIK, Peter - BALOG, Martin - ILLEKOVÁ, Emília - ŠVEC, Peter - MAŤKO, Igor - ŠTĚPÁNEK, Matěj - NOSKO, Martin - SIMANČÍK, František. The oxidation behavior of gas-atomized Al and Al alloy powder green compacts during heating before hot extrusion and the suggested heating process. In Journal of Materials Processing Technology, 2014, vol. 214, no. 6, p. 1165-1172. (2013: 2.041 - IF, Q1 - JCR, 1.717 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0924-0136. Dostupné na: <https://doi.org/10.1016/j.jmatprotec.2014.01.003>

Citácie:

1. [1.1] REN, Jian - MENG, Hao - SONG, Guangsheng - SUN, Yuehua - WANG, Richu - FENG, Yan. Characteristics and Microstructure of 7055 Al Alloy Powder Prepared by Nitrogen Atomization. In TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS, 2024, vol. 77, no. 2, pp. 503-511. ISSN 0972-2815. Dostupné na: <https://doi.org/10.1007/s12666-023-03134-6>, Registrované v: WOS

2. [1.1] YAN, Shuaijiang - WANG, Richu - PENG, Chaoqun - CAI, Zhiyong - PENG, Xiang - LV, Pinhui - LI, Xinxing. Microstructural evolution and mechanical properties of the rapidly-solidified and hot-extruded 2196 Al-Li alloy. In JOURNAL OF ALLOYS AND COMPOUNDS, 2024, vol. 988, no., art. no. 174285. ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.174285>, Registrované v: WOS

ADCA495 KRÍŽIK, Peter - BALOG, Martin - MAŤKO, Igor - ŠVEC, Peter - ČAVOJSKÝ, Miroslav - SIMANČÍK, František. The effect of a particle-matrix interface on the Young's modulus of Al-SiC composites. In Journal of Composite Materials, 2016, vol. 50, no. 1, p. 99-108. (2015: 1.242 - IF, Q2 - JCR, 0.573 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0021-9983. Dostupné na: <https://doi.org/10.1177/0021998315571028>

Citácie:

1. [1.1] NAYAK, K.C. - CHOI, H. - LEE, K.B. Thermal expansion behavior of nitrogen-processed Al6061/SiC composites. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, 2024 OCT 7 2024. Dostupné na: <https://doi.org/10.1007/s10853-024-10170-0>, Registrované v: WOS

2. [1.2] KUMAR, Jatinder - SINGH, Dilbag - KALSI, Nirmal S. A critical review of fabrication techniques and possible interfacial reactions of silicon carbide reinforced aluminium metal matrix composites. In Metal Matrix Composites A Modern Approach to Manufacturing, 2024-03-28, pp. 42-90. ISBN [9789815223446, 9789815223439]. Dostupné na: <https://doi.org/10.2174/9789815223439124010005>, Registrované v: SCOPUS

ADCA496 KROH, Daniel - ATHANASOPOULOS, Stavros - NÁDAŽDY, Vojtech - KAHLE, Frank-Julian - BÄSSLER, Heinz - KÖHLER, Anna. An Impedance Study of the Density of States Distribution in Blends of PM6:Y6 in Relation to Barrierless Dissociation of CT States. In Advanced Functional Materials, 2024, vol. 34, no. 50, art. no. 2302520. (2023: 18.5 - IF, Q1 - JCR, 5.496 - SJR, Q1 - SJR). ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202302520>

Citácie:

1. [1.1] KUMARI, Tanya - VYALIH, Irina - LUNA, Miguel Angel Leon - AHMED,

Hamsa - AHMAD, Mariam - ATAJOV, Rovshen - JAYARAMAN, Eswaran - MANIKANDAN, Suraj - PACI, Barbara - DI CARLO, Aldo - ANDREASEN, Jens Wenzel - TURKOVIC, Vida - MADSEN, Morten. Bilayer layer-by-layer structures for enhanced efficiency and stability of organic photovoltaics beyond bulk heterojunctions. In *CELL REPORTS PHYSICAL SCIENCE*, 2024, vol. 5, no. 6, art. no. 102027. Dostupné na: <https://doi.org/10.1016/j.xcrp.2024.102027>, Registrované v: WOS

2. [1.2] CHANDEL, Anjali - CHANG, Sheng Hsiung. Light-Material Interactions and Applications in Optoelectronic Devices. In *Lightmaterial Interactions and Applications in Optoelectronic Devices*, 2024-01-01, pp. 1-157. ISBN [9780750360975, 9780750361019]. Dostupné na: <https://doi.org/10.1088/978-0-7503-6099-9>, Registrované v: SCOPUS

ADCA497

KRONEKOVÁ, Zuzana* - PELACH, Michal* - MAZANCOVÁ, Petra* - UHELSKÁ, Lucia - TRELOVÁ, Dušana - RÁZGA, Filip - NÉMETHOVÁ, Veronika - SZALAI, Szabolcs - CHORVÁT, Dušan Jr. - MCGARRIGLE, James J. - OMAMI, Mustafa - ISA, Douglas - GHANI, Sofia - MAJKOVÁ, Eva - OBERHOLZER, José - RAUS, Vladimír - ŠIFFALOVIČ, Peter* - LACÍK, Igor**. Structural changes in alginate-based microspheres exposed to in vivo environment as revealed by confocal Raman microscopy. In *Scientific Reports*, 2018, vol. 8, art. no. 1637. (2017: 4.122 - IF, Q1 - JCR, 1.533 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-018-20022-y>

Citácie:

1. [1.1] ACAR, Ozge Karabiyik - NOZHATZADEH, G. Delal - TUNCER, A. Alperen - KOSE, Gamze Torun - AYSAN, Erhan. EFFECT OF DIFFERENT SODIUM ALGINATE COMPOSITIONS ON 3D MICROCAPSULE STRUCTURE AND CELL VIABILITY. In *JOURNAL OF MECHANICS IN MEDICINE AND BIOLOGY*, 2024, vol. 24, no. 01, art. no. 2350048. ISSN 0219-5194. Dostupné na: <https://doi.org/10.1142/S0219519423500483>, Registrované v: WOS

2. [1.1] JAMROZY, Mateusz - KUDLACIK-KRAMARCZYK, Sonia - DRABCZYK, Anna - KRZAN, Marcel. Advanced Drug Carriers: A Review of Selected Protein, Polysaccharide, and Lipid Drug Delivery Platforms. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2024, vol. 25, no. 2, art. no. 786. ISSN 1661-6596. Dostupné na: <https://doi.org/10.3390/ijms25020786>, Registrované v: WOS

3. [1.1] ROJAS-MUNOZ, Yesica Vanesa - DE JESUS PEREA-FLORES, Maria - QUINTANILLA-CARVAJAL, Maria Ximena. Probiotic Encapsulation: Bead Design Improves Bacterial Performance during In Vitro Digestion (Part 2: Operational Conditions of Vibrational Technology). In *POLYMERS*, 2024, vol. 16, no. 17, art. no. 2492. Dostupné na: <https://doi.org/10.3390/polym16172492>, Registrované v: WOS

4. [1.1] WANG, Mengdi - WANG, Shan - ZHANG, Changhao - MA, Ming - YAN, Bohua - HU, Xinming - SHAO, Tianjiao - PIAO, Yan - JIN, Lili - GAO, Jing. Microstructure Formation and Characterization of Long-Acting Injectable Microspheres: The Gateway to Fully Controlled Drug Release Pattern. In *INTERNATIONAL JOURNAL OF NANOMEDICINE*, 2024, vol. 19, no., pp. 1571-1595. ISSN 1178-2013. Dostupné na: <https://doi.org/10.2147/IJN.S445269>, Registrované v: WOS

ADCA498

KRUPA, Dalibor - MESHCHERYAKOV, V.A. - SUROVTSEV, Y.S. Multichannel approach to studying scalar resonances. In *Il Nuovo Cimento A*, 1996, vol. 109, no. 3, p. 281-299.

Citácie:

1. [1.1] GANBOLD, Gurjav - IVANOV, M. A. Strong decays of charmonium-like state $Y(4230)$. In *EUROPEAN PHYSICAL JOURNAL A*, 2024, vol. 60, no. 1, art. no. 13. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01234-5>, Registrované v: WOS

ADCA499 KUBIČÁR, Ľudovít - BOHÁČ, Vlastimil - VRETENÁR, Viliam. Transient methods for the measurement of thermophysical properties: The pulse transient method. In *High Temperatures-High Pressures*, 2002, vol. 34, no. 5, p. 505-514. ISSN 0018-1544. Dostupné na: <https://doi.org/10.1068/htjr053>

Citácie:

1. [1.1] LEDEVIN, T. - COURTY, L. - WILLIAM-LOUIS, M. - FABRE, D. - FAGET, L. A new method for thermal conductivity measurement: application to complex heterogeneous materials used in thermal batteries. In *HEAT AND MASS TRANSFER*, 2024, vol. 60, no. 12, pp. 2017-2023. ISSN 0947-7411. Dostupné na: <https://doi.org/10.1007/s00231-022-03291-2>, Registrované v: WOS

2. [1.2] JANNOT, Yves - DEGIOVANNI, Alain. Thermal Properties Measurement of Materials. In *Thermal Properties Measurement of Materials*, 2024-01-01, pp. 1-416. ISBN [9781394325535, 9781394335084]. Dostupné na: <https://doi.org/10.1002/9781394335084>, Registrované v: SCOPUS

ADCA500 KUBIČÁR, Ľudovít - BOHÁČ, Vlastimil. A step-wise method for measuring thermophysical parameters of materials. In *Measurement Science and Technology*, 2000, vol. 11, no. 3, p. 252-258. (1999: 0.850 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0957-0233. Dostupné na: <https://doi.org/10.1088/0957-0233/11/3/312>

Citácie:

1. [1.1] MALINARIC, Svetozar - BOKES, Peter - BULATOVIC, Goran. A New Numerically Improved Transient Technique for Measuring Thermal Properties of Anisotropic Materials. In *THERMO*, 2024, vol. 4, no. 3, pp. 394-406. Dostupné na: <https://doi.org/10.3390/thermo4030021>, Registrované v: WOS

2. [1.1] MALINARIC, Svetozar. The Application of the Finite Elements Method in the Transient Measurements of Thermophysical Parameters. In *INTERNATIONAL JOURNAL OF THERMOPHYSICS*, 2024, vol. 45, no. 2, art. no. 22. ISSN 0195-928X. Dostupné na: <https://doi.org/10.1007/s10765-023-03311-1>, Registrované v: WOS

3. [1.2] JANNOT, Yves - DEGIOVANNI, Alain. Thermal Properties Measurement of Materials. In *Thermal Properties Measurement of Materials*, 2024-01-01, pp. 1-416. ISBN [9781394325535, 9781394335084]. Dostupné na: <https://doi.org/10.1002/9781394335084>, Registrované v: SCOPUS

4. [1.2] MALINARIČ, S. The application of the finite elements method in the step wise transient method. In *Journal of Physics Conference Series*, 2024-01-01, 2911, 1, pp. ISSN 17426588. Dostupné na: <https://doi.org/10.1088/1742-6596/2911/1/012001>, Registrované v: SCOPUS

ADCA501 KUBIČÁR, Ľudovít - BOHÁČ, Vlastimil - VRETENÁR, Viliam - BARTA, Š. - NEUER, G. - BRANDT, R. Thermophysical properties of heterogeneous structures measured by pulse transient method. In *International Journal of Thermophysics*, 2005, vol. 26, no. 6, p. 1949-1962. ISSN 0195-928X. Dostupné na: <https://doi.org/10.1007/s10765-005-8607-2>

Citácie:

1. [1.1] LEDEVIN, T. - COURTY, L. - WILLIAM-LOUIS, M. - FABRE, D. - FAGET, L. A new method for thermal conductivity measurement: application to complex heterogeneous materials used in thermal batteries. In *HEAT AND MASS TRANSFER*, 2024, vol. 60, no. 12, pp. 2017-2023. ISSN 0947-7411. Dostupné na: <https://doi.org/10.1007/s00231-022-03291-2>, Registrované v: WOS

- ADCA502 KULIK, T. - VLASÁK, Gabriel - ZUBEREK, R. Correlation between microstructure and magnetic properties of amorphous and nanocrystalline Fe_{73.5}Cu₁Nb₃Si_{16.5}B₆. In Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing, 1997, vol. 226, p. 701-705. (1996: 0.852 - IF, karentované - CCC). (1997 - Current Contents, WOS, SCOPUS). ISSN 0921-5093. Dostupné na: [https://doi.org/10.1016/s0921-5093\(97\)80074-3](https://doi.org/10.1016/s0921-5093(97)80074-3)
- Citácie:
- [1.1] ARANDA, Rosa Maria - ASTACIO, Raquel - URBAN, Petr - ARANDA, Beatriz - CUEVAS, Francisco G. Milling amorphous FeSiB ribbons with vibratory ball and disc mills. In POWDER TECHNOLOGY, 2024, vol. 441, no., art. no. 119816. ISSN 0032-5910. Dostupné na: <https://doi.org/10.1016/j.powtec.2024.119816>, Registrované v: WOS
 - [1.1] SUNBUL, S. E. - AKYOL, S. - ICIN, K. - UMICEVIC, A. - IVANOVSKI, V. - BATALOVIC, K. Investigating oxidation behavior of Fe₃₈Co₃₈Mo₈B₁₅Cu₁ alloy ribbons structural, magnetic and Mossbauer study. In JOURNAL OF NON-CRYSTALLINE SOLIDS, 2024, vol. 627, no., art. no. 122836. ISSN 0022-3093. Dostupné na: <https://doi.org/10.1016/j.jnoncrysol.2024.122836>, Registrované v: WOS
- ADCA503 KUMAR, Vinay - KUMAR, Deepak - CHAVAN, Rohit D. - KUMAR, Kodali Phani - YADAGIRI, Bommaramoni - ANS, Muhammad - KRUSZYNSKA, Joanna - MAHAPATRA, Apurba - NAWROCKI, Jan - NIKIFOROW, Kostiantyn - MRKÝVKOVÁ, Nad'a, Tesařová - ŠIFFALOVIČ, Peter - YADAV, Pankaj - AKIN, Seckin - SINGH, Surya Prakash - PROCHOWICZ, Daniel. Molecular modification of spiro[fluorene-9,9'-xanthene]-based dopant-free hole transporting materials for perovskite solar cells. In Journal of Materials Chemistry A, 2024, vol. 12, no. 14, p. 8370-8380. (2023: 10.7 - IF, Q1 - JCR, 2.804 - SJR, Q1 - SJR). ISSN 2050-7488. Dostupné na: <https://doi.org/10.1039/d3ta07851e>
- Citácie:
- [1.1] RABHI, Selma - HAMEED, Talaat A. - MAYARAMBAKAM, Sasikumar - HOSSAIN, M. Khalid - SEKAR, Karthick. The impact of CBz-PAI interlayer in various HTL-based flexible perovskite solar cells: A drift-diffusion numerical study. In HELIYON, 2024, vol. 10, no. 10, art. no. e31138. Dostupné na: <https://doi.org/10.1016/j.heliyon.2024.e31138>, Registrované v: WOS
 - [1.1] SULTANA, Basra - ISLAM, A. T. M. Saiful - MAMOON, Iqra - HAQUE, Md. Dulal - BADI, Nacer - IRFAN, Ahmad - RAHMAN, Md. Ferdous. Simulating High-Efficiency, Lead-Free Inorganic-Organic Perovskite Tandem Solar Cells with over 46% Efficiency. In CHEMISTRYSELECT, 2024, vol. 9, no. 45, art. no. e202404116. ISSN 2365-6549. Dostupné na: <https://doi.org/10.1002/slct.202404116>, Registrované v: WOS
 - [1.2] MIAO, Yawei - XUE, Tingting - ZHOU, Xue - JIA, Shaoyun - GU, Chuantao. Enhanced performance of perovskite solar cells via construction of benzothiadiazole-based hole transport materials utilizing an asymmetric strategy. In Journal of Materials Chemistry C, 2024-11-06, 13, 2, pp. 876-883. ISSN 20507526. Dostupné na: <https://doi.org/10.1039/d4tc03915g>, Registrované v: SCOPUS
 - [1.2] XIE, Gang - CHEN, Ling - LIU, Jiaxin - YU, Jianxin - YIN, Haoran - LI, Huiyu - YANG, Yonglong - LIANG, Aihui - CHEN, Yiwang. Recent progress in spiro-type hole transport materials for efficient and stable perovskite solar cells. In Journal of Materials Chemistry C, 2024-12-23, 13, 5, pp. 2040-2057. ISSN 20507526. Dostupné na: <https://doi.org/10.1039/d4tc04672b>, Registrované v: SCOPUS
- ADCA504 KUMARI, Anjali - ABRAHAM, Jisha Annie - SREELEKSHMI, C. - MANZOOR,

Mumtaz - KUMAR, Abhinav - MISHRA, Abhishek Kumar - FOUAD, Dalia - KUMAR, Yedluri Anil - SHARMA, Ramesh. Ab-initio investigation of novel lead-free halide based Rb_2CsXI_6 ($X = \text{Ga}, \text{In}$) double perovskites: Mechanical, structural, thermoelectric, and optoelectronic potential for photovoltaics and green energy applications. In *Materials Science and Engineering B - Solid-State Materials for Advanced Technology*, 2024, vol. 310, no. 11, art. no. 117708. (2023: 3.9 - IF, Q2 - JCR, 0.647 - SJR, Q2 - SJR, karentované - CCC). (2024 - Current Contents). ISSN 0921-5107. Dostupné na: <https://doi.org/10.1016/j.mseb.2024.117708>

Citácie:

1. [1.2] SHAKIL, M. - MAQSOOD, Sania - MUDASSIR, M. - GADHI, M. Asghar - GILLANI, S. S. - EL AZAB, Islam H. First-principle's calculations to investigate structural, electronic, mechanical, optical, and thermoelectric properties of halide double perovskites K_2InScX_6 ($X = \text{Cl}, \text{Br}, \text{and I}$) for thermoelectric and optoelectronic applications. In *Computational and Theoretical Chemistry*, 2024-12-01, 1242, pp. ISSN 2210271X. Dostupné na:

<https://doi.org/10.1016/j.comptc.2024.114970>, Registrované v: SCOPUS

ADCA505 KUMBHAKAR, Jaidev - ABRAHAM, Jisha Annie - SRIVASTAVA, Anshuman - MEENA, K. L. - MANZOOR, Mumtaz - GHFAR, Ayman A. - SHARMA, Ramesh. Synergistic modulation of SLME and thermal transport toward promising p-type lead-free halide semiconductors In_2TiX_6 ($X = \text{Br}, \text{I}$) via first principles analysis. In *International Journal of Quantum Chemistry*, 2024, vol. 124, no. 11, art. no. e27424. (2023: 2.3 - IF, Q2 - JCR, 0.393 - SJR, Q3 - SJR). ISSN 0020-7608. Dostupné na: <https://doi.org/10.1002/qua.27424>

Citácie:

1. [1.1] IDRISSI, S. - JABAR, A. - BAHMAD, L. A DFT study of the CaMg_2As_2 material for photovoltaic applications. In *SOLID STATE COMMUNICATIONS*, 2024, vol. 392, no., art. no. 115655. ISSN 0038-1098. Dostupné na:

<https://doi.org/10.1016/j.ssc.2024.115655>, Registrované v: WOS

ADCA506 KUNCA, Branislav** - MARCIN, Jozef - PARSONS, Richard - ŠVEC, Peter Jr. - ŠVEC, Peter - SUZUKI, Kiyonori - ŠKORVÁNEK, Ivan**. Soft magnetic performance of ultra-rapidly annealed high-B-s Fe-(Co)-B nanocrystalline alloys at elevated temperatures. In *Journal of Alloys and Compounds*, 2022, vol. 911, art. no. 165033. (2021: 6.371 - IF, Q1 - JCR, 0.667 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2022.165033>

Citácie:

1. [1.1] KANG, Shujie - CHEN, Zhe - ZHU, Qianke - ZHANG, Kewei - AMIN, Mohammed A. - ALSHAMMARI, Anoud Saud - QIU, Hua - YAN, Zhijie - HE, Mukun - JIANG, Yong - ALQARNI, Nawal D. - WU, Zijian. Modulating magnetic properties of high entropy soft FeSiB(P)Cu alloys with excellent GFA via $\alpha\text{-Fe(Si)}$ grain preferential growth mechanism. In *ADVANCED COMPOSITES AND HYBRID MATERIALS*, 2024, vol. 7, no. 5, art. no. 166. ISSN 2522-0128. Dostupné na: <https://doi.org/10.1007/s42114-024-00952-0>, Registrované v: WOS

2. [1.1] LI, Jian - SHAO, Liliang - BAI, Rongsheng - ZHOU, Jing - TONG, Xing - LIN, Huai-Jun - ZHANG, Meng - KE, Hai-Bo - WANG, Wei-Hua. Ultrahigh saturation magnetization in FeCoB powders with controllable amorphous-nanocrystalline structure via the synergism of deformation and energy injection. In *SCIENCE CHINA-MATERIALS*, 2024, vol. 67, no. 6, pp. 1985-1993. ISSN 2095-8226. Dostupné na: <https://doi.org/10.1007/s40843-024-2919-6>, Registrované v: WOS

3. [1.1] MUNIR, Muhammad Adnan - NAZ, Muhammad Yasin - SHUKRULLAH, Shazia - NAZ, Ahmad - IRFAN, Muhammad - RAHMAN, Saifur - MURSAL, Salim

Nasar Faraj. Tailoring properties of $\text{Ni}_{0.50}\text{Co}_{0.50}\text{Dy}_x\text{Fe}_{2-x}\text{O}_4$ ceramics using microwave non-thermal plasma for high-frequency devices. In *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING*, 2024, vol. 130, no. 8, art. no. 563. ISSN 0947-8396. Dostupné na: <https://doi.org/10.1007/s00339-024-07716-z>, Registrované v: WOS

4. [1.1] REN, Yi - BU, Fan - WU, Yuhao - WANG, Long - HE, Yixuan - WANG, Haifeng. Simultaneously enhancing mechanical and tribological performance in undercooled Co-18.5 at. % B alloys. In *MATERIALS CHEMISTRY AND PHYSICS*, 2024, vol. 325, no., art. no. 129722. ISSN 0254-0584. Dostupné na: <https://doi.org/10.1016/j.matchemphys.2024.129722>, Registrované v: WOS

5. [1.1] SUNBUL, S. E. - AKYOL, S. - ICIN, K. - UMICEVIC, A. - IVANOVSKI, V. - BATALOVIC, K. Investigating oxidation behavior of $\text{Fe}_{38}\text{Co}_{38}\text{Mo}_8\text{B}_{15}\text{Cu}_1$ alloy ribbons structural, magnetic and Mossbauer study. In *JOURNAL OF NON-CRYSTALLINE SOLIDS*, 2024, vol. 627, no., art. no. 122836. ISSN 0022-3093. Dostupné na: <https://doi.org/10.1016/j.jnoncrysol.2024.122836>, Registrované v: WOS

6. [1.1] XI, Guo-Guo - SUN, Cheng - HAN, Min-Hao - LI, Hai-Guang - CUI, Jia-Li - ZHANG, Tao. Ultra-high annealing stability via the synergistic homogenization mechanism of Cu-P clusters in Fe-P-based nanocrystalline alloy. In *JOURNAL OF NON-CRYSTALLINE SOLIDS*, 2024, vol. 633, no., art. no. 122951. ISSN 0022-3093. Dostupné na:

<https://doi.org/10.1016/j.jnoncrysol.2024.122951>, Registrované v: WOS

7. [1.1] XU, Xueping - ZHAO, Zhenkai - LIU, Wei - YE, Fengyang - ZHU, Tao - LI, Xianhong. Magnetic noise modeling and calculation of Fe-based nanocrystalline in the SERF magnetometer considering temperature effects. In *SENSORS AND ACTUATORS A-PHYSICAL*, 2024, vol. 373, no., art. no. 115431. ISSN 0924-4247. Dostupné na: <https://doi.org/10.1016/j.sna.2024.115431>, Registrované v: WOS

ADCA507 KUNDRACIK, F. - HARTMANOVÁ, Mária - MÜLLEROVÁ, J. - JERGEL, Matej - KOSTIČ, Ivan - TUCOULOU, R. Ohmic resistance of thin yttria stabilized zirconia film and electrode-electrolyte contact area. In *Materials Science and Engineering*, 2001, vol. 84, no. 3, p. 167-175. (2000: 0.592 - IF, karentované - CCC). (2001 - Current Contents, SCOPUS). ISSN 0921-5107. Dostupné na: [https://doi.org/10.1016/S0921-5107\(01\)00515-3](https://doi.org/10.1016/S0921-5107(01)00515-3)

Citácie:

1. [1.1] UECKER, Jan - UNACHUKWU, Ifeanyichukwu D. - VIBHU, Vaibhav - VINKE, Izaak C. - DE HAART, L. G. J. (Bert) - EICHEL, Ruediger-A. Gadolinium Doped Ceria as Nickel-Free Fuel Electrode in High Temperature CO_2 -Electrolysis. In *CHEMELECTROCHEM*, 2024, vol. 11, no. 7. ISSN 2196-0216. Dostupné na: <https://doi.org/10.1002/celc.202300617>, Registrované v: WOS

2. [1.1] WOLF, Stephanie E. - VIBHU, Vaibhav - CHAKRABORTY, Pritam K. - BASAK, Shibabrata - VINKE, Izaak C. - DE HAART, L. G. J. (Bert) - EICHEL, Ruediger-A. Long-term electrochemical characterization of novel $\text{Sr}_2\text{FeMo}_{0.65}\text{Ni}_{0.35}\text{O}_{6-\delta}$ fuel electrode for high-temperature steam electrolysis in solid oxide cells. In *ELECTROCHEMISTRY COMMUNICATIONS*, 2024, vol. 167, no., art. no. 107799. ISSN 1388-2481. Dostupné na: <https://doi.org/10.1016/j.elecom.2024.107799>, Registrované v: WOS

ADCA508 KUNDRÁT, V. - LOKAJÍČEK, M. - KRUPA, Dalibor. Impact parameter structure derived from elastic collisions. In *Physics Letters B : nuclear, elementary particle and high-energy physics*, 2002, vol. 544, no. 1-2, p. 132-138. (2001: 4.377 - IF, karentované - CCC). (2002 - Current Contents, WOS, SCOPUS). ISSN 0370-2693. Dostupné na: [https://doi.org/10.1016/S0370-2693\(02\)02481-4](https://doi.org/10.1016/S0370-2693(02)02481-4)

Citácie:

1. [1.1] PASECHNIK, Roman - TASEVSKY, Marek. Multi-dimensional hadron structure through the lens of gluon Wigner distribution. In *PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS*, 2024, vol. 1084, no., pp. 3-57. ISSN 0370-1573. Dostupné na: <https://doi.org/10.1016/j.physrep.2024.06.004>, Registrované v: WOS

ADCA509

KVASIL, J. - NESTERENKO, V.O. - REPKO, Anton - KLEINIG, W. - REINHARD, P.-G. Deformation-induced splitting of the isoscalar E0 giant resonance: Skyrme random-phase-approximation analysis. In *Physical Review C. Nuclear Physics*, 2016, vol. 94, no. 6, art. no. 064302. (2015: 3.146 - IF, Q2 - JCR, 1.993 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.94.064302>

Citácie:

1. [1.1] ABDULLAH, M. - BAGCHI, S. - AKIMUNE, H. - DAS, D. - DOI, T. - DONALDSON, L. M. - FUJIKAWA, Y. - FUJIWARA, M. - FURUNO, T. - GARG, U. - GUPTA, Y. K. - HOWARD, K. B. - HIJIKATA, Y. - INABA, K. - ISHIDA, S. - ITOH, M. - KALANTAR-NAYESTANAKI, N. - KAR, D. - KAWABATA, T. - KAWASHIMA, S. - KHOKHAR, K. - KITAMURA, K. - KOBAYASHI, N. - MATSUDA, Y. - NAKAGAWA, A. - NAKAMURA, S. - OTA, S. - PRAMANIK, R. - OKAMOTO, S. - PAL, S. - ROY, S. - WEYHMILLER, S. - YANG, Z. - ZAMORA, J. C. Effect of ground-state deformation on the isoscalar giant monopole resonance and the first observation of overtones of the isoscalar giant quadrupole resonance in rare-Earth Nd isotopes. In *PHYSICS LETTERS B*, 2024, vol. 855, no., art. no. 138852. ISSN 0370-2693. Dostupné na:

<https://doi.org/10.1016/j.physletb.2024.138852>, Registrované v: WOS

2. [1.1] EL ADRI, M. - EL BASSEM, Y. - EL BATOUL, A. - OULNE, M. Probing isoscalar giant monopole resonance in axially and triaxially deformed zirconium isotopes. In *EUROPEAN PHYSICAL JOURNAL PLUS*, 2024, vol. 139, no. 1, art. no. 75. ISSN 2190-5444. Dostupné na: <https://doi.org/10.1140/epjp/s13360-024-04887-9>, Registrované v: WOS

3. [1.1] EL ADRI, M. - EL BASSEM, Y. - EL BATOUL, A. - OULNE, M. Shape isomeric states effects on the giant monopole resonances in even-even molybdenum isotopes. In *EUROPEAN PHYSICAL JOURNAL A*, 2024, vol. 60, no. 5, art. no. 110. ISSN 1434-6001. Dostupné na:

<https://doi.org/10.1140/epja/s10050-024-01321-7>, Registrované v: WOS

4. [1.1] PAN, Feng - DAI, Lianrong - DRAAYER, Jerry P. - KEKEJIAN, David. Extended interacting boson model with configuration mixing description for 98Mo. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 5, art. no. 054306. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.054306>, Registrované v: WOS

5. [1.1] PAN, Feng - ZHANG, Yu - DAI, Lianrong - DRAAYER, Jerry P. - KEKEJIAN, David. A multi-shell extension of the interacting boson model. In *PHYSICS LETTERS B*, 2024, vol. 848, no., art. no. 138340. ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2023.138340>, Registrované v: WOS

6. [1.1] TAQI, A. H. - MANSOUR, W. A. ISOSCALAR GIANT QUADRUPOLE RESONANCE OF EVEN-EVEN 112-124Sn ISOTOPES USING BCS-QRPA. In *NUCLEAR PHYSICS AND ATOMIC ENERGY*, 2024, vol. 25, no. 1, pp. 26-35. ISSN 1818-331X. Dostupné na: <https://doi.org/10.15407/jnpae2024.01.026>, Registrované v: WOS

7. [1.1] WASHIYAMA, Kouhei - EBATA, Shuichiro - YOSHIDA, Kenichi. Evolution of the giant monopole resonance with triaxial deformation. In

PHYSICAL REVIEW C, 2024, vol. 109, no. 2, art. no. 024317. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.024317>, Registrované v: WOS

8. [1.2] ZHAO, Jie. Multipole modes of excitation in tetrahedrally deformed neutron-rich Zr isotopes. In *Physical Review C*, 2024-07-01, 110, 1, pp. ISSN 24699985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.L011301>, Registrované v: SCOPUS

ADCA510 LAI, W.K. - BUŽEK, Vladimír - KNIGHT, P.L. Nonclassical fields in a linear directional coupler. In *Physical Review A*, 1991, vol. 43, no. 11, p. 6323-6336. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.43.6323>

Citácie:

1. [1.1] BEDER, I. - BRANDAO, P. A. Quantum state transfer in a ring geometry of optical waveguides having nonuniform couplings. In *PHYSICS LETTERS A*, 2024, vol. 525, no., art. no. 129926. ISSN 0375-9601. Dostupné na:

<https://doi.org/10.1016/j.physleta.2024.129926>, Registrované v: WOS

2. [1.1] EHRHARDT, Max - DITTEL, Christoph - HEINRICH, Matthias - SZAMEIT, Alexander. Topological Hong-Ou-Mandel interference. In *SCIENCE*, 2024, vol. 384, no. 6702, pp. 1340-1344. ISSN 0036-8075. Dostupné na:

<https://doi.org/10.1126/science.ado8192>, Registrované v: WOS

3. [1.1] GERRY, Christopher C. - BIRRITTELLA, Richard J. - ALSING, Paul M. - MIMI, Jihane - KNIGHT, Peter L. Non-classicality and the effect of one photon. In *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES*, 2024, vol. 382, no. 2287, art. no. 20230331. ISSN 1364-503X. Dostupné na:

<https://doi.org/10.1098/rsta.2023.0331>, Registrované v: WOS

ADCA511 LÁNYI, Štefan - PISANI, M. A high-input-impedance buffer. In *IEEE Transactions on Circuits and Systems*, 2002, vol. 49, no. 8, p. 1209-1211. ISSN 0098-4094. Dostupné na: <https://doi.org/10.1109/TCSI.2002.801287>

Citácie:

1. [1.1] JAFARI, Gholamreza - QOUCHANI, Mohammad Tavakkoli - SABERI, Mehdi - SCHMID, Alexandre. A Two-Wired High Input Impedance and High CMRR Active Electrode Insensitive to Component Mismatch. In *IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT*, 2024, vol. 73, no., art. no. 2000908. ISSN 0018-9456. Dostupné na:

<https://doi.org/10.1109/TIM.2023.3342233>, Registrované v: WOS

2. [1.1] KHALILI, Matin - GHOLAMHOSSEINI, Hamid - LOWE, Andrew - KUO, Matthew M. Y. Motion artifacts in capacitive ECG monitoring systems: a review of existing models and reduction techniques. In *MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING*, 2024, vol. 62, no. 12, pp. 3599-3622. ISSN 0140-0118. Dostupné na: <https://doi.org/10.1007/s11517-024-03165-1>,

Registrované v: WOS

ADCA512 LÁNYI, Štefan - HRUŠKOVIČ, M. The resolution limit of scanning capacitance microscopes. In *Journal of Physics D: Applied Physics*, 2003, vol. 36, no. 5, p. 598-602. (2003 - Current Contents, SCOPUS). ISSN 0022-3727. Dostupné na: <https://doi.org/10.1088/0022-3727/36/5/326>

Citácie:

1. [1.1] LIU, Xirui - LU, Xiaoyi - LANG, Xiting - LI, Minghui - GOU, Yangyang - JIANG, Yongjie - ZHANG, Junchuan - TIAN, Hao - ZHANG, Yueying - XI, Herui - CHEN, Chen - WANG, Changlei - LIU, Chang - KONG, Xiangyang - YE, Jichun - XIAO, Chuanxiao. Direct Measurement of Carrier Distribution in Perovskite by Scanning Capacitance Microscopy. In *JOURNAL OF PHYSICAL CHEMISTRY C*, 2024, vol. 129, no. 1, pp. 648-657. ISSN 1932-7447. Dostupné na:

<https://doi.org/10.1021/acs.jpcc.4c06178>, Registrované v: WOS

2. [1.1] SARAF, S. - BUCHMAN, S. - LUI, C. Y. - WANG, S. - LIPA, J. Noise and thermal performance of a sub-attofarad capacitance sensor for precision measurements, with applications in gravitational wave detectors. In REVIEW OF SCIENTIFIC INSTRUMENTS, 2024, vol. 95, no. 3, art. no. 034503. ISSN 0034-6748. Dostupné na: <https://doi.org/10.1063/5.0198159>, Registrované v: WOS

3. [1.2] LIU, Xiaomeng - WANG, Xiangsheng - LIU, Xinyou - SONG, Yanpeng - ZHANG, Yiwen - WANG, Hailing - ZHANG, Ying - WANG, Guilei - ZHAO, Chao. Application of atomic force microscopy technology in doping characterization of semiconductor materials and devices. In Microelectronic Engineering, 2024-01-15, 297, pp. ISSN 01679317. Dostupné na:

<https://doi.org/10.1016/j.mee.2024.112310>, Registrované v: SCOPUS

ADCA513

LÁNYI, Štefan. On the lateral resolution of scanning capacitance microscope based C-V measurements. In Ultramicroscopy, 2010, vol. 110, no. 10, p. 1343-1348. (2009: 2.067 - IF, Q2 - JCR, 1.755 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0304-3991. Dostupné na:

<https://doi.org/10.1016/j.ultramic.2010.06.011>

Citácie:

1. [1.1] LIU, Xirui - LU, Xiaoyi - LANG, Xiting - LI, Minghui - GOU, Yangyang - JIANG, Yongjie - ZHANG, Junchuan - TIAN, Hao - ZHANG, Yueying - XI, Herui - CHEN, Chen - WANG, Changlei - LIU, Chang - KONG, Xiangyang - YE, Jichun - XIAO, Chuanxiao. Direct Measurement of Carrier Distribution in Perovskite by Scanning Capacitance Microscopy. In JOURNAL OF PHYSICAL CHEMISTRY C, 2024, vol. 129, no. 1, pp. 648-657. ISSN 1932-7447. Dostupné na:

<https://doi.org/10.1021/acs.jpcc.4c06178>, Registrované v: WOS

ADCA514

LARSEN, A.C. - GUTTORMSEN, M. - KRTIČKA, M. - BĚTÁK, Emil - BURGER, A. - GORGEN, A. - NYHUS, H.T. - REKSTAD, J. - SCHILLER, A. - SIEM, S. - TOFT, H.K. - TVETEN, G.M. - VOINOV, A.V. - WIKAN, K. Analysis of possible systematic errors in the Oslo method. In Physical Review C, 2011, vol. 83, no. 3, art. no. 34315. (2010: 3.416 - IF, 2.409 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 2469-9985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.83.034315>

Citácie:

1. [1.1] ANH, Nguyen Ngoc - HUAN, Phan Nhut - HUNG, Nguyen Quang - HAI, Nguyen Xuan. Enhanced capability of model fitting to nuclear level density and heat capacity: testing on SUP93-98/SUPMo nuclei. In PHYSICA SCRIPTA, 2024, vol. 99, no. 10, art. no. 105315. ISSN 0031-8949. Dostupné na:

<https://doi.org/10.1088/1402-4896/ad7aaa>, Registrované v: WOS

2. [1.1] KROMER, Kathrin - LYU, Chunhai - BIERON, Jacek - DOOR, Menno - ENZMANN, Lucia - FILIANIN, Pavel - GAIGALAS, Gediminas - HARMAN, Zoltan - HERKENHOFF, Jost - HUANG, Wenjia - KEITEL, Christoph H. - ELISEEV, Sergey - BLAUM, Klaus. Atomic mass determination of uranium-238. In PHYSICAL REVIEW C, 2024, vol. 109, no. 2, art. no. L021301. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.L021301>, Registrované v: WOS

3. [1.1] SPYROU, A. - MUECHER, D. - DENISSEKOV, P. A. - HERWIG, F. - GOOD, E. C. - BALK, G. - BERG, H. C. - BLEUEL, D. L. - CLARK, J. A. - DEMBSKI, C. - DEYOUNG, P. A. - GREAVES, B. - GUTTORMSEN, M. - HARRIS, C. - LARSEN, A. C. - LIDDICK, S. N. - LYONS, S. - MARKOVA, M. - MOGANNAM, M. J. - NIKAS, S. - OWENS-FRYAR, J. - PALMISANO-KYLE, A. - PERDIKAKIS, G. - POGLIANO, F. - QUINTIERI, M. - RICHARD, A. L. - SANTIAGO-GONZALEZ, D. - SAVARD, G. - SMITH, M. K. - SWEET, A. -

TSANTIRI, A. - WIEDEKING, M. First Study of the $^{139}\text{Ba} (n, \gamma) ^{140}\text{Ba}$ Reaction to Constrain the Conditions for the Astrophysical r Process. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 20, art. no. 202701. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.202701>, Registrované v: WOS

4. [1.1] SWEET, A. - BLEUEL, D. L. - SCIELZO, N. D. - BERNSTEIN, L. A. - DOMBOS, A. C. - GOLDBLUM, B. L. - HARRIS, C. M. - LAPLACE, T. A. - LARSEN, A. C. - LEWIS, R. - LIDDICK, S. N. - LYONS, S. M. - NAQVI, F. - PALMISANO-KYLE, A. - RICHARD, A. L. - SMITH, M. K. - SPYROU, A. - VUJIC, J. - WIEDEKING, M. Nuclear level density and γ -decay strength of ^{93}Sr . In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 5, art. no. 054305. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.054305>, Registrované v: WOS

5. [1.1] TRAN, Vu Dong - PHAN, Nhut Huan - NGUYEN, Quang Hung - NGUYEN, Xuan Hai - LE, Thi Quynh Huong - NGUYEN, Ngoc Anh. Systematic investigation on semi-empirical thermodynamic quantities of excited nuclei using canonical ensemble. In *JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS*, 2024, vol. 51, no. 6, art. no. 065105. ISSN 0954-3899. Dostupné na: <https://doi.org/10.1088/1361-6471/ad3662>, Registrované v: WOS

6. [1.2] KAUR, Amandeep - YÜKSEL, Esra - PAAR, Nils. Finite-temperature effects in magnetic dipole transitions. In *Physical Review C*, 2024-02-01, 109, 2, pp. ISSN 24699985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.024305>, Registrované v: SCOPUS

ADCA515 LEDIEU, J. - KRAJČÍ, Marián - HAFNER, J. - LEUNG, L. - WEARING, L.H. - MCGRATH, R. - LOGRASSO, T.A. - WU, D. - FOURNEE, V. Nucleation of Pb starfish clusters on the five-fold Al-Pd-Mn quasicrystal surface. In *Physical Review B*, 2009, vol. 79, no. 16, art. no. 165430. (2008: 3.322 - IF, Q1 - JCR, 2.923 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.79.165430>

Citácie:

1. [1.1] BOULANGEOT, Nathan - BRIX, Florian - SUR, Frederic - GAUDRY, Emilie. Hydrogen, Oxygen, and Lead Adsorbates on $\text{Al}_{13}\text{Co}_4(100)$: Accurate Potential Energy Surfaces at Low Computational Cost by Machine Learning and DFT-Based Data. In *JOURNAL OF CHEMICAL THEORY AND COMPUTATION*, 2024, vol. 20, no. 16, pp. 7287-7299. ISSN 1549-9618. Dostupné na: <https://doi.org/10.1021/acs.jctc.4c00367>, Registrované v: WOS

2. [1.2] SINGH, Vipin Kumar - BHAKUNI, Pramod - BATABYAL, Rajib - BARMAN, Sudipta Roy. Local electronic structure of Sn white flower motifs on five-fold Al-Pd-Mn surface using scanning tunneling spectroscopy. In *Aip Conference Proceedings*, 2024-08-19, 3149, 1, pp. ISSN 0094243X. Dostupné na: <https://doi.org/10.1063/5.0224701>, Registrované v: SCOPUS

ADCA516 LEE, Y. - VERSTRAETE, F. - GENDIAR, Andrej. Boundary-field-driven control of discontinuous phase transitions on hyperbolic lattices. In *Physical Review E*, 2016, vol. 94, no. 2, art. no. 022133. (2015: 2.252 - IF, Q1 - JCR, 1.183 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.94.022133>

Citácie:

1. [1.2] OKUNISHI, Kouichi - NISHINO, Tomotoshi. Holographic Analysis of Boundary Correlation Functions for the Hyperbolic-Lattice Ising Model. In *Progress of Theoretical and Experimental Physics*, 2024-09-01, 2024, 9, pp. Dostupné na: <https://doi.org/10.1093/ptep/ptae137>, Registrované v: SCOPUS

2. [1.2] OKUNISHI, Kouichi - TAKAYANAGI, Tadashi. Statistical mechanics

approach to the holographic renormalization group: Bethe lattice Ising model and p-adic AdS/CFT. In Progress of Theoretical and Experimental Physics, 2024-01-01, 2024, 1, pp. Dostupné na: <https://doi.org/10.1093/ptep/ptad156>, Registrované v: SCOPUS

- ADCA517 LEFAIX, H. - PRIMA, F. - ZANNA, S. - VERMAUT, P. - DUBOT, P. - MARCUS, P. - JANIČKOVIČ, Dušan - ŠVEC, Peter. Surface properties of a nano-quasicrystalline forming Ti based system. In Materials Transactions, 2007, vol. 48, no. 3, p. 278-286. (2006: 0.927 - IF, Q1 - JCR, 0.885 - SJR, Q1 - SJR). ISSN 1345-9678. Dostupné na: <https://doi.org/10.2320/matertrans.48.278>
Citácie:
1. [1.1] CZUB, Joanna - TAKASAKI, Akito - HOSER, Andreas - REEHUIS, Manfred - GONDEK, Lukasz. Hydrogenation Properties of the $\text{Ti}_{45}\text{Zr}_{38-x}\text{Y}_x\text{Ni}_{17}$ ($5 \leq x \leq 10$) and the $\text{Ti}_{45-x}\text{Y}_x\text{Zr}_{38}\text{Ni}_{17}$ ($5 \leq x \leq 15$) Mechanically Alloyed Materials. In MATERIALS, 2024, vol. 17, no. 20, art. no. 4946. Dostupné na: <https://doi.org/10.3390/ma17204946>, Registrované v: WOS
2. [1.1] YIGIT, Kaan - WANG, Jie - SI, Qingyu - DU, Xin - SUN, Qiuyu - ZHANG, Yinqiao - LI, Zhifeng - WANG, Sheng. Investigation on activation characterization, secondary electron yield, and surface resistance of novel quinary alloy Ti-Zr-V-Hf-Cu non-evaporable getters. In REVIEW OF SCIENTIFIC INSTRUMENTS, 2024, vol. 95, no. 6, art. no. 063908. ISSN 0034-6748. Dostupné na: <https://doi.org/10.1063/5.0198398>, Registrované v: WOS
- ADCA518 LENGYEL, Krisztián - TICHY-RÁCS, Éva - TIMPMANN, Kőu - VIELHAUER, Sebastian - ROMET, Ivo - KOVÁCS, László - CORRADI, Gábor - BUTKUS, Rytis - VENGRIS, Mikas - SILDOS, Ilmo - KIISK, Valter - PUUST, Laurits - NAGIRNYI, Vitali**. Cooperative luminescence of Yb^{3+} ion pairs in $\text{Li}_6\text{Y}(\text{BO}_3)_3\text{:Yb}$ single crystals. In Journal of Luminescence, 2021, vol. 230, no. 5, art. no. 117732. (2020: 3.599 - IF, Q1 - JCR, 0.652 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0022-2313. Dostupné na: <https://doi.org/10.1016/j.jlumin.2020.117732>
Citácie:
1. [1.1] KACZKAN, M. - MALINOWSKI, M. - SUCHOCKI, A. - TURCZYNSKI, S. Cooperative luminescence of Yb^{3+} ions in multisite YAM crystal. In JOURNAL OF LUMINESCENCE, 2024, vol. 265, no., art. no. 120162. ISSN 0022-2313. Dostupné na: <https://doi.org/10.1016/j.jlumin.2023.120162>, Registrované v: WOS
- ADCA519 LEPPÄJÄRVI, Leevi** - SEDLÁK, Michal**. Incompatibility of quantum instruments. In Quantum : the open journal for quantum science, 2024, vol. 8, art. no. 1246. (2023: 5.1 - IF, Q1 - JCR, 2.562 - SJR, Q1 - SJR). ISSN 2521-327X. Dostupné na: <https://doi.org/10.22331/q-2024-02-12-1246>
Citácie:
1. [1.1] RAGINI, Nidhin Sudarsanan - SAZIM, Sk. Higher-order incompatibility improves distinguishability of causal quantum networks. In NEW JOURNAL OF PHYSICS, 2024, vol. 26, no. 12, art. no. 123003. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad93f6>, Registrované v: WOS
2. [1.1] RICO, Albert - ZYCZKOWSKI, Karol. Discrete dynamics in the set of quantum measurements. In JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, 2024, vol. 57, no. 43, art. no. 435302. ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/ad7dc2>, Registrované v: WOS
- ADCA520 LI, Bo* - WANG, Mengru* - SUBAIR, Riyas* - CAO, Guozhong* - TIAN, Jianjun. Significant Stability Enhancement of Perovskite Solar Cells by Facile Adhesive Encapsulation. In Journal of Physical Chemistry C, 2018, vol. 122, no. 44, p. 25260-25267. (2017: 4.484 - IF, Q1 - JCR, 2.135 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1932-7447. Dostupné na:

<https://doi.org/10.1021/acs.jpcc.8b09595>

Citácie:

1. [1.1] CHENG, Zhendong - ZHANG, Meng - ZHANG, Yan - QI, Wenjing - WANG, Zhaoyi - LIU, Bo - DI, Dawei. Stable wide-bandgap perovskite solar cells for tandem applications. In *NANO ENERGY*, 2024, vol. 127, no., art. no. 109708. ISSN 2211-2855. Dostupné na: <https://doi.org/10.1016/j.nanoen.2024.109708>, Registrované v: WOS
2. [1.1] GRABOWSKA, Adrianna - PINEDA, Rosinda Fuentes - SPINELLI, Pierpaolo - PEREZ, German Soto - PACHECO, Felipe Andres Vinocour - BABU, Vivek. Development of Lightweight and Flexible Perovskite Solar Cells on Ultrathin Colorless Polyimide Foils. In *ACS APPLIED MATERIALS & INTERFACES*, 2024, vol. 16, no. 36, pp. 48676-48684. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.4c11355>, Registrované v: WOS
3. [1.1] HAN, Nara - HAN, Songyeon - EOM, Ji-Ho - CHO, Tae-Yeon - YOUNG OH, Joon - JIN CHOI, Woo - CHO, Seong-Keun - HAM, Dong Seok. Simple Encapsulation Method for Flexible Perovskite Solar Cells with Transparent Electrode-Integrated Barrier Films. In *SOLAR RRL*, 2024, vol. 8, no. 14. ISSN 2367-198X. Dostupné na: <https://doi.org/10.1002/solr.202400243>, Registrované v: WOS
4. [1.1] KAHANDAL, Suman S. - TUPKE, Rameshwar S. - BOBADE, Dinesh S. - KIM, Hansol - PIAO, Guanghai - SANKAPAL, Babasaheb R. - SAID, Zafar - PAGAR, Balasaheb P. - PAWAR, Anuradha C. - KIM, Ji Man - BULAKHE, Ravindra N. Perovskite solar cells: Fundamental aspects, stability challenges, and future prospects. In *PROGRESS IN SOLID STATE CHEMISTRY*, 2024, vol. 74, no., art. no. 100463. ISSN 0079-6786. Dostupné na: <https://doi.org/10.1016/j.progsolidstchem.2024.100463>, Registrované v: WOS
5. [1.1] MADANI, Mahdi - HEYDARI, Zahra - POURSAFAR, Jafar - SHARIFPOUR, Nafiseh - KOLAHDOUZ, Mohammadreza - ASL-SOLEIMANI, Ebrahim - AGHABABA, Hossein. A study of kapton as a flexible substrate for perovskite solar cells; advantages and disadvantages. In *OPTICAL MATERIALS*, 2024, vol. 154, no., art. no. 115697. ISSN 0925-3467. Dostupné na: <https://doi.org/10.1016/j.optmat.2024.115697>, Registrované v: WOS
6. [1.1] XING, Ruofei - LI, Ziqing - ZHAO, Wenxiao - WANG, Dong - XIE, Ranran - CHEN, Yanxue - WU, Limin - FANG, Xiaosheng. Waterproof and Flexible Perovskite Photodetector Enabled By P-type Organic Molecular Rubrene with High Moisture and Mechanical Stability. In *ADVANCED MATERIALS*, 2024, vol. 36, no. 13. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202310248>, Registrované v: WOS

ADCA521 LI, Yan Jun - BRNDIAR, Ján - NAITOH, Y. - SUGAWARA, Y. - ŠTICH, Ivan. Atomic force microscopy identification of Al-sites on ultrathin aluminum oxide film on NiAl(110). In *Nanotechnology*, 2015, vol. 26, no. 50, art. no. 505704. (2014: 3.821 - IF, Q1 - JCR, 1.497 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0957-4484. Dostupné na: <https://doi.org/10.1088/0957-4484/26/50/505704>

Citácie:

1. [1.1] KOSHIDA, H. - WILDE, M. - FUKUTANI, K. Coverage-dependent desorption kinetics of water on a well-ordered alumina thin film surface. In *JOURNAL OF CHEMICAL PHYSICS*, 2024, vol. 160, no. 3, art. no. 034703. ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/5.0183443>, Registrované v: WOS

ADCA522 LIANG, X.B. - KULIK, T. - KOWALCZYK, M. - VLASÁK, Gabriel - SUN, W.S. - XU, B.S. Influence of structure on coercivity in nanocrystalline (Fe_{1-x}Cox)

(86)Hf7B6Cu1 alloys. In *Physica B*, 2005, vol. 370, no. 1-4, p. 151-157. ISSN 0921-4526. Dostupné na: <https://doi.org/10.1016/j.physb.2005.09.005>

Citácie:

1. [1.1] HOU, Long - WANG, Benjun - LIU, Li - MAO, Xinhao - ZHANG, Mingya - YUAN, Chenchen - LI, Zhong - JU, Wenwei - FENG, Hanchen - TANG, Chengying - XIA, Ailin - LI, Weihuo. Tailoring magnetic softness of Fe-based amorphous alloys with superior magnetization by magnetic field annealing. In *JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY*, 2024, vol. 200, no., pp. 27-37. ISSN 1005-0302. Dostupné na: <https://doi.org/10.1016/j.jmst.2024.02.043>, Registrované v: WOS

ADCA523 LIPTÁK, Ľudovít - OLEJNÍK, Štefan. Casimir scaling in G2 lattice gauge theory. In *Physical Review D*, 2008, vol. 78, no. 7, art. no. 074501. (2007: 4.696 - IF, Q1 - JCR, 2.593 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: <https://doi.org/10.1103/PhysRevD.78.074501>

Citácie:

1. [1.1] NEJAD, Seyed Mohsen Hosseini. Influence of center vortex interactions on the static potentials. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 11, art. no. 114504. ISSN 2470-0010. Dostupné na:

<https://doi.org/10.1103/PhysRevD.110.114504>, Registrované v: WOS

ADCA524 LIU, H.L. - MA, Y.G.** - BONASERA, A. - DENG, X.G. - LOPEZ, O. - VESELSKÝ, Martin. Mean free path and shear viscosity in central Xe-129+Sn-119 collisions below 100 MeV/nucleon. In *Physical Review C*, 2017, vol. 96, no. 6, art. no. 064604. (2016: 3.820 - IF, Q1 - JCR, 1.936 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.96.064604>

Citácie:

1. [1.1] DENG, Xian-Gai - FANG, De-Qing - MA, YuGang. Shear viscosity of nucleonic matter. In *PROGRESS IN PARTICLE AND NUCLEAR PHYSICS*, 2024, vol. 136, no., art. no. 104095. ISSN 0146-6410. Dostupné na:

<https://doi.org/10.1016/j.ppnp.2023.104095>, Registrované v: WOS

ADCA525 LIU, Min - ZHENG, Daming - ZHU, Tao - VÉGSŐ, Karol - ŠIFFALOVIČ, Peter - PAUPORTÉ, Thierry. 2D Halide Perovskite Phase Formation Dynamics and Their Regulation by Co-Additives for Efficient Solar Cells. In *Advanced Materials Interfaces*, 2024, vol. 11, no. 6, art. no. 2300773. (2023: 4.3 - IF, Q2 - JCR, 1.194 - SJR, Q1 - SJR). ISSN 2196-7350. Dostupné na: <https://doi.org/10.1002/admi.202300773>

Citácie:

1. [1.1] WAFEE, Seema - LEU, Ching-Chich - CHANG, Kai-Chiang - LIU, Bernard Haochih. Achieving vertical orientation films with superior environmental stability in quasi-2D lead iodide perovskites. In *JOURNAL OF ALLOYS AND COMPOUNDS*, 2024, vol. 1009, no., art. no. 176919. ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.176919>, Registrované v: WOS

ADCA526 LIU, Y. - PALOTÁS, Krisztián - YUAN, X. - HOU, T. - LIN, H.** - LI, Y.** - LEE, S.-T. Atomistic origins of surface defects in CH3NH3PbBr3 Perovskite and their electronic structures. In *ACS Nano*, 2017, vol. 11, no. 2, p. 2060-2065. (2016: 13.942 - IF, Q1 - JCR, 6.948 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1936-0851. Dostupné na: <https://doi.org/10.1021/acsnano.6b08260>

Citácie:

1. [1.1] ABBASLI, Madad - HIEULLE, Jeremy - SCHRAGE, Jenny - WILKS, Dina - SAMAD, Abdus - SCHWINGENSCHLOGL, Udo - REDINGER, Alex - BUSSE,

- Carsten - OHMANN, Robin. Tin Halide Perovskite Epitaxial Films on Gold Surfaces: Atomic Structure and Stability. In *ADVANCED FUNCTIONAL MATERIALS*, 2024, vol. 34, no. 40. ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202403680>, Registrované v: WOS
2. [1.1] AHMAD, Bilal - LIMON, Md Salman Rabbi - AHMAD, Zeeshan. Modulation of point defect properties near surfaces in metal halide perovskites. In *PHYSICAL REVIEW MATERIALS*, 2024, vol. 8, no. 12, art. no. 125402. ISSN 2475-9953. Dostupné na: <https://doi.org/10.1103/PhysRevMaterials.8.125402>, Registrované v: WOS
3. [1.1] FU, Can - YANG, Jiawei - WANG, Jiang - LUO, Shenghui - LUO, Linbao - WEI, Huanhuan - LI, Yujiao - JIANG, Shanshan - HE, Gang. Dual-Mode Semiconductor Device Enabling Optoelectronic Detection and Neuromorphic Processing with Extended Spectral Responsivity. In *ADVANCED MATERIALS*, 2024, vol. 36, no. 49. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202409406>, Registrované v: WOS
4. [1.1] JIANG, Yang - DU, Hong-Qiang - ZHI, Rui - ROTHMANN, Mathias Uller - WANG, Yulong - WANG, Chao - LIANG, Guijie - HU, Zhi-Yi - CHENG, Yi-Bing - LI, Wei. Eliminating Non-Corner-Sharing Octahedral for Efficient and Stable Perovskite Solar Cells. In *ADVANCED MATERIALS*, 2024, vol. 36, no. 28. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202312157>, Registrované v: WOS
5. [1.1] LI, Kejia - KHAMDANG, Chadawan - WANG, Mengen. Surface phase diagram of CsSnI₃ from first-principles calculations. In *PHYSICAL REVIEW MATERIALS*, 2024, vol. 8, no. 9, art. no. 093401. ISSN 2475-9953. Dostupné na: <https://doi.org/10.1103/PhysRevMaterials.8.093401>, Registrované v: WOS
6. [1.1] LOPEZ-FERNANDEZ, Iago - VALLI, Donato - WANG, Chun-Yun - SAMANTA, Subarna - OKAMOTO, Takuya - HUANG, Yi-Teng - SUN, Kun - LIU, Yang - CHIRVONY, Vladimir S. - PATRA, Avijit - ZITO, Juliette - DE TRIZIO, Luca - GAUR, Deepika - SUN, Hong-Tao - XIA, Zhiguo - LI, Xiaoming - ZENG, Haibo - MORA-SERO, Ivan - PRADHAN, Narayan - MARTINEZ-PASTOR, Juan P. - MUELLER-BUSCHBAUM, Peter - BIJU, Vasudevanpillai - DEBNATH, Tushar - SALIBA, Michael - DEBROYE, Elke - HOYE, Robert L. Z. - INFANTE, Ivan - MANNA, Liberato - POLAVARAPU, Lakshminarayana. Lead-Free Halide Perovskite Materials and Optoelectronic Devices: Progress and Prospective. In *ADVANCED FUNCTIONAL MATERIALS*, 2024, vol. 34, no. 6. ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202307896>, Registrované v: WOS
7. [1.1] MONTERO-ALEJO, Ana L. - SILVA-PORTALES, Maria Jose - LODEIRO, Lucas - MENENDEZ-PROUPIN, Eduardo. Alloy [FA,Cs]PbI₃ perovskite surfaces: The role of surface cesium composition in stability and tolerance to defect formation. In *JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS*, 2024, vol. 192, no., art. no. 112107. ISSN 0022-3697. Dostupné na: <https://doi.org/10.1016/j.jpcs.2024.112107>, Registrované v: WOS
8. [1.1] QIAO, Lu - GUO, Meng - LONG, Run. Unveiling the Dual Role of Humidity: The Interplay with Defects Manipulating the Charge Carrier Lifetime in Metal Halide Perovskites. In *JOURNAL OF PHYSICAL CHEMISTRY LETTERS*, 2024, vol. 15, no. 6, pp. 1546-1552. ISSN 1948-7185. Dostupné na: <https://doi.org/10.1021/acs.jpcllett.3c03610>, Registrované v: WOS
9. [1.1] WANG, Chunhua - XIE, Zhirun - WANG, Yannan - DING, Yang - LEUNG, Michael K. H. - NG, Yun Hau. Defects of Metal Halide Perovskites in Photocatalytic Energy Conversion: Friend or Foe? In *ADVANCED SCIENCE*, 2024, vol. 11, no. 29. Dostupné na: <https://doi.org/10.1002/advs.202402471>, Registrované v: WOS

10. [1.1] WANG, Yule - CUI, Bin-bin - ZHAO, Yiming - LIN, Tao - LI, Juan. Investigation of perovskite materials for solar cells using scanning tunneling microscopy. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*, 2024, vol. 26, no. 41, pp. 26192-26208. ISSN 1463-9076. Dostupné na:

<https://doi.org/10.1039/d4cp02010c>, Registrované v: WOS

11. [1.1] XUE, Weinan - ZHANG, Xin - ZHU, Wei - ZHANG, Xue - WANG, Wei - PENG, Linwei - MA, Xiang - LI, Yan. Large-scale heterogeneous synthesis of monodisperse high performance colloidal CsPbBr₃ nanocrystals. In *FUNDAMENTAL RESEARCH*, 2024, vol. 4, no. 5, pp. 1137-1146. ISSN 2096-9457. Dostupné na: <https://doi.org/10.1016/j.fmre.2022.05.030>, Registrované v: WOS

12. [1.1] ZHU, Jingwei - XIU, Jieying - ZHENG, Jianbin - LI, Xiaoyang - LUO, Haiyan - LI, Yafeng - ZHANG, Ying - WEI, Mingdeng. Fine optimized cation immobilization strategy for enhancing stability and efficiency of perovskite solar cells. In *CHEMICAL ENGINEERING JOURNAL*, 2024, vol. 487, no., art. no. 150382. ISSN 1385-8947. Dostupné na:

<https://doi.org/10.1016/j.cej.2024.150382>, Registrované v: WOS

13. [1.2] DEMENTYEV, Mykyta - JONES, Lindsay F. - BRENNAN, Michael C. - GRUSENMEYER, Tod A. - WAUGAMAN, Seth D. - MATHERS, Robert T. - HICKEY, Robert J. Polymer macroligands passivate halide perovskite surfaces. In *Rsc Applied Polymers*, 2024-06-24, 2, 5, pp. 857-869. Dostupné na:

<https://doi.org/10.1039/d4lp00114a>, Registrované v: SCOPUS

ADCA527 LOCKMULLER, N. - REDGROVE, I. - KUBIČÁR, Ľudovít. Measurement of thermal conductivity with the needle probe. In *High Temperatures-High Pressure*, 2003, vol. 35-36, no. 2, p. 127-138. ISSN 0018-1544. Dostupné na:

<https://doi.org/10.1068/htjr099>

Citácie:

1. [1.1] DAZA-BADILLA, Lucas - GOMEZ, Rene - DIAZ-NORIEGA, Ramon - AVUDAIAPPAN, Siva - SKRZYPKOWSKI, Krzysztof - SAAVEDRA-FLORES, Erick I. - KORZENIOWSKI, Waldemar. Thermal Conductivity in Concrete Samples with Natural and Synthetic Fibers. In *MATERIALS*, 2024, vol. 17, no. 4, art. no. 817. Dostupné na: <https://doi.org/10.3390/ma17040817>, Registrované v: WOS

ADCA528 LORY, P.-F. - PAILHÉS, S.** - GIORDANO, V.M. - EUCHNER, H. - NGUYEN, H.D. - RAMLAU, R. - BORRMANN, H. - SCHMIDT, M. - BAITINGER, M. - IKEDA, M. - TOMEŠ, P. - MIHALKOVIČ, Marek - ALLIO, C. - JOHNSON, M.R. - SCHOBER, H. - SIDIS, Y. - BOURDAROT, F. - REGNAULT, L.P. - OLLIVIER, R. - PASCHEN, S. - GRIN, Y. - DE BOISSIEU, M.**. Direct measurement of individual phonon lifetimes in the clathrate compound Ba_{7.81}Ge_{40.67}Au_{5.33}. In *Nature Communications*, 2017, vol. 8, art. no. 491. (2016: 12.124 - IF, Q1 - JCR, 6.414 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2041-1723. Dostupné na: <https://doi.org/10.1038/s41467-017-00584-7>

Citácie:

1. [1.1] CRAVERO, R. - TLILI, A. - PATERSON, J. - TOMELLERI, M. - MARCELLO, P. - DEBORD, R. - PAILHES, S. - BOURGEOIS, O. - HIPPERT, F. - QUI, D. Le - RATY, J.Y. - NOE, P. - GIORDANO, V. M. Glass-Like Phonon Dynamics and Thermal Transport in a GeTe Nano-Composite at Low Temperature. In *SMALL*, 2024, vol. 20, no. 26. ISSN 1613-6810. Dostupné na: <https://doi.org/10.1002/smll.202310209>, Registrované v: WOS

2. [1.1] GANESAN, Peramaiyan - GANTEPOGU, Chandra Shekar - DURAISAMY, Sidharth - VALIYAVEETTIL, Suneesh Meledath - TSAI, Wei-Han - HSING, Cheng-Rong - LIN, Kung-Hsuan - CHEN, Kuei-Hsien - CHEN, YangYuan

- WU, Maw-Kuen. Carrier optimization and reduced thermal conductivity leading to enhanced thermoelectric performance in (Mg, S) co-doped AgSbTe₂ In MATERIALS TODAY PHYSICS, 2024, vol. 42, no., art. no. 101358. ISSN 2542-5293. Dostupné na: <https://doi.org/10.1016/j.mtphys.2024.101358>, Registrované v: WOS
3. [1.1] GHOSH, Kalyan - GHORAI, Gurupada - SAHOO, Pratap K. Effect of phonon anharmonicity on thermal conductivity of ZnTe Thin films. In JOURNAL OF PHYSICS-CONDENSED MATTER, 2024, vol. 36, no. 23, art. no. 235002. ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/1361-648X/ad2fee>, Registrované v: WOS
4. [1.1] GUPTA, Mayanak K. - DING, Jingxuan - LIN, Hung-Min - HOOD, Zachary - OSTI, Naresh C. - ABERNATHY, Douglas L. - YAKOVENKO, Andrey A. - WANG, Hui - DELAIRE, Olivier. Investigation of Low-Energy Lattice Dynamics and Their Role in Superionic Na Diffusion and Ultralow Thermal Conductivity of Na₃PSe₄ as a Solid-State Electrolyte. In CHEMISTRY OF MATERIALS, 2024, vol. 36, no. 23, pp. 11377-11392. ISSN 0897-4756. Dostupné na: <https://doi.org/10.1021/acs.chemmater.4c01553>, Registrované v: WOS
5. [1.1] JIAN, Miaomiao - FENG, Zhenzhen - FU, Yuhao - QIN, Guanhua. The Rattler-Induced Flat Phonon Modes in KCaBi Driven Lower Thermal Conductivity Compared to KCaSb. In JOURNAL OF PHYSICAL CHEMISTRY C, 2024, vol. 128, no. 39, pp. 16721-16732. ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.4c03578>, Registrované v: WOS
6. [1.1] LIU, Boyao - ALLISON, William - PENG, Bo - AVIDOR, Nadav - MONSERRAT, Bartomeu - JARDINE, Andrew P. Distinguishing Quasiparticle-Phonon Interactions by Ultrahigh-Resolution Lifetime Measurements. In PHYSICAL REVIEW LETTERS, 2024, vol. 132, no. 17, art. no. 176202. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.176202>, Registrované v: WOS
7. [1.1] LIU, Boyao - KELSALL, Jack - WARD, David J. - JARDINE, Andrew P. Experimental Characterization of Defect-Induced Phonon Lifetime Shortening. In PHYSICAL REVIEW LETTERS, 2024, vol. 132, no. 5, art. no. 056202. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.056202>, Registrované v: WOS
8. [1.1] PAZHEDATH, Anees - BASTONERO, Lorenzo - MARZARI, Nicola - SIMONCELLI, Michele. First-principles characterization of thermal conductivity in LaPO₄-based alloys. In PHYSICAL REVIEW APPLIED, 2024, vol. 22, no. 2, art. no. 024064. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.22.024064>, Registrované v: WOS
9. [1.1] VIENNOIS, Romain - DEBORD, Regis - MOLL, Adrien - LEGRAND, Vincent - BEAUDHUIN, Mickael - FRETU, Nicole - PAILHES, Stephane. Stability and Physical Properties of Metastable Ba-Si Clathrates. In INORGANIC CHEMISTRY, 2024, vol. 63, no. 12, pp. 5541-5551. ISSN 0020-1669. Dostupné na: <https://doi.org/10.1021/acs.inorgchem.3c04520>, Registrované v: WOS
10. [1.1] WU, Jiazhen - XU, Jingtao - TANIGAKI, Katsumi. An exponential-potential description for the guest-host interactions in rattler-containing cage materials. In JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, 2024, vol. 184, no., art. no. 111709. ISSN 0022-3697. Dostupné na: <https://doi.org/10.1016/j.jpcs.2023.111709>, Registrované v: WOS
11. [1.1] XIAO, Feng - XIE, Qing-Yu - MING, Xing - LI, Huashan - ZHANG, Junrong - WANG, Bao-Tian. Anomalous lattice thermal conductivity of quasi-one-dimensional palladium thiophosphate A₂PdPS₄I (A = K, Rb, Cs). In PHYSICAL REVIEW B, 2024, vol. 109, no. 24, art. no. 245202. ISSN 2469-9950. Dostupné

- ADCA529 *na: <https://doi.org/10.1103/PhysRevB.109.245202>, Registrované v: WOS*
 LORY, P.-F. - GIORDANO, V. M. - GILLE, P. - EUCHNER, H. - MIHALKOVIČ, Marek - PELLEGRINI, E. - GONZALEZ, M. - REGNAULT, L.-P. - BASTIE, P. - SCHOBER, H. - PAILHES, S. - JOHNSON, M. R. - GRIN, Yu. - DE BOISSIEU, M.**. Impact of structural complexity and disorder on lattice dynamics and thermal conductivity in the o-Al₁₃Co₄ phase. In *Physical Review B*, 2020, vol. 102, no. 2, art. no. 024303. (2019: 3.575 - IF, Q2 - JCR, 1.811 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.102.024303>
- Citácie:*
- [1.1] SARKAR, Debattam - BHUI, Animesh - MARIA, Ivy - DUTTA, Moinak - BISWAS, Kanishka. Hidden structures: a driving factor to achieve low thermal conductivity and high thermoelectric performance. In *CHEMICAL SOCIETY REVIEWS*, 2024, vol. 53, no. 12. ISSN 0306-0012. Dostupné na: <https://doi.org/10.1039/d4cs00038b>, Registrované v: WOS
 - [1.1] SONG, Xuhao - ZHAO, Yinchang - DAI, Zhenhong. Research Progress on Transport Mechanisms of Materials with Intrinsically High Thermoelectric Performance. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 6. Dostupné na: <https://doi.org/10.1002/qute.202400020>, Registrované v: WOS
 - [1.1] VALLEJO, Javier P. - FEBRERO-GARRIDO, Lara - CACABELOS, Anton - GONZALEZ-GIL, Arturo - LUGO, Luis. Influence of crystal structure on the thermophysical properties and figures-of-merit of propylene glycol: water-based SiC nanofluids. In *POWDER TECHNOLOGY*, 2024, vol. 433, no., art. no. 119299. ISSN 0032-5910. Dostupné na: <https://doi.org/10.1016/j.powtec.2023.119299>, Registrované v: WOS
 - [1.2] LV, Longchao - ZHAO, Yinchang - NI, Jun - DAI, Zhenhong. Comparison of the excellent thermoelectric properties of the half-Heusler compounds RbMgSb with a host-guest structure and LiMgSb. In *Results in Physics*, 2024-08-01, 63, pp. Dostupné na: <https://doi.org/10.1016/j.rinp.2024.107865>, Registrované v: SCOPUS
- ADCA530 LU, Bin** - VÉGSÖ, Karol - MIČKY, Simon - RITZ, Christian - BODIK, Michal - FEDORYSHYN, Yuriy Myronovych - ŠIFFALOVIČ, Peter - STEMMER, Andreas**. Tunable Subnanometer Gaps in Self-Assembled Monolayer Gold Nanoparticle Superlattices Enabling Strong Plasmonic Field Confinement. In *ACS Nano*, 2023, vol. 17, no. 13, pp. 12774-12787. (2022: 17.1 - IF, Q1 - JCR, 4.728 - SJR, Q1 - SJR). ISSN 1936-0851. Dostupné na: <https://doi.org/10.1021/acsnano.3c03804>
- Citácie:*
- [1.1] BERRY, M. Wren - GREEN, Allison M. - ROMAN, Benjamin J. - TRUSKETT, Thomas M. - MILLIRON, Delia J. Incorporating Dopant Effects in the Plasmon Ruler for Metal-Oxide Nanocrystal Superlattices. In *ACS MATERIALS LETTERS*, 2024, vol. 6, no. 5, pp. 1929-1937. Dostupné na: <https://doi.org/10.1021/acsmaterialslett.4c00220>, Registrované v: WOS
 - [1.1] DENG, Rong - XIA, Zhenrong - YAN, Fang - FENG, Xingqiao - ZHANG, Gaoqin - LI, Xiaochun. Inkjet Printing Patterned Plasmonic SERS Platform with Surface-Optimized Paper for Label-Free Detection of Illegal Drugs in Urine. In *ANALYTICAL CHEMISTRY*, 2024, vol. 96, no. 42, pp. 16834-16841. ISSN 0003-2700. Dostupné na: <https://doi.org/10.1021/acs.analchem.4c03549>, Registrované v: WOS
 - [1.1] GUO, Linfan - ZHENG, Ganhong - WANG, Xiujuan - YUAN, Yupeng - ZHU, Chuhong. Uniform monolayer of branched silver nanoplates-assembled nanoparticles for sensitive and reproducible SERS detection of harmful molecules.

- In MICROCHEMICAL JOURNAL, 2024, vol. 203, no., art. no. 110873. ISSN 0026-265X. Dostupné na: <https://doi.org/10.1016/j.microc.2024.110873>, Registrované v: WOS
4. [1.1] JANG, Jeongjae - LEE, Sang-Jo - KIM, Jiwhan - DEY, Jahar - MUN, Seong-bin - CHOI, Sung-Min. Esterification-Induced Spontaneous Deposition of Nanoparticle Monolayers on Substrates with Percolation Network Morphology. In LANGMUIR, 2024, vol. 40, no. 38, pp. 20082-20089. ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.4c02303>, Registrované v: WOS
5. [1.1] SHERMAN, Zachary M. - MILLIRON, Delia J. - TRUSKETT, Thomas M. Distribution of Single-Particle Resonances Determines the Plasmonic Response of Disordered Nanoparticle Ensembles. In ACS NANO, 2024, vol. 18, no. 32, pp. 21347-21363. ISSN 1936-0851. Dostupné na: <https://doi.org/10.1021/acsnano.4c05803>, Registrované v: WOS
6. [1.1] SHIN, Dong-In - KIM, Jeongwon - IM, Seong-Gyun - KANG, Taewoo - WANG, Ke - LEE, Gaehang - KWON, Seok Joon - PARK, Sungho - YI, Gi-Ra. Proximal High-Index Metamaterials based on a Superlattice of Gold Nanohehexagons Targeting the Near-Infrared Band. In ADVANCED MATERIALS, 2024, vol. 36, no. 41. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202405650>, Registrované v: WOS
7. [1.1] SONG MINGXIA - YU YING - LIU SHAODING. Scattering Characteristics of Microsphere Shells Based on Self-Assembled Dense-Packed Gold Nanospheres. In ACTA OPTICA SINICA, 2024, vol. 44, no. 14, art. no. 1429001. ISSN 0253-2239. Dostupné na: <https://doi.org/10.3788/AOS240644>, Registrované v: WOS
8. [1.1] SONG, Sojin - JEON, Myeong Jin - LEE, Jong Uk - SIM, Sang Jun. Recent advances in DNA-assembled plasmonic nanoarchitectures for biomedical applications. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY, 2024, vol. 177, no., art. no. 117784. ISSN 0165-9936. Dostupné na: <https://doi.org/10.1016/j.trac.2024.117784>, Registrované v: WOS
9. [1.1] SU, Zhangfei - KROLIKOWSKA, Agata - SEENATH, Ryan - KYCIA, Annia - LI, Jie - BUKOWSKA, Jolanta - CHEN, Aicheng - LIPKOWSKI, Jacek. Quantitative electrochemical and SEIRA characterization of mercaptosuccinic acid monolayer on gold surface. In ELECTROCHIMICA ACTA, 2024, vol. 499, no., art. no. 144715. ISSN 0013-4686. Dostupné na: <https://doi.org/10.1016/j.electacta.2024.144715>, Registrované v: WOS
10. [1.1] WU, Zhijun - SHA, Mo - JI, Deyang - ZHAO, Huaping - LI, Liqiang - LEI, Yong. Ordered Anodic Aluminum Oxide-Based Nanostructures for Surface-Enhanced Raman Scattering: A Review. In ACS APPLIED NANO MATERIALS, 2024, vol. 7, no. 1, pp. 11-31. Dostupné na: <https://doi.org/10.1021/acsanm.3c04652>, Registrované v: WOS
11. [1.1] YAO, Chang - YAN, Wuwen - DONG, Ronglu - DOU, Shaobin - YANG, Liangbao. Superlattice assembly strategy of small noble metal nanoparticles for surface-enhanced Raman scattering. In COMMUNICATIONS MATERIALS, 2024, vol. 5, no. 1, art. no. 65. Dostupné na: <https://doi.org/10.1038/s43246-024-00506-3>, Registrované v: WOS
12. [1.2] GAO, Ye - WAN, Lingli - SONG, Yuqing - GAO, Shan - YAN, Nan - WU, Fan - DU, Yanqiu. Templated self-organization of polymer-tethered gold nanoparticles into freestanding superlattices at the liquid–air interface. In Physical Chemistry Chemical Physics, 2024-12-24, 27, 5, pp. 2427-2433. ISSN 14639076. Dostupné na: <https://doi.org/10.1039/d4cp04435e>, Registrované v: SCOPUS
13. [1.2] SONG, Mingxia - YU, Ying - LIU, Shaoding. Mie Scattering

Characteristics of Microsphere Shells Based on Self-Assembled Dense-Packed Gold Nanospheres. In Guangxue Xuebao Acta Optica Sinica, 2024-07-01, 44, 14, pp. ISSN 02532239. Dostupné na: <https://doi.org/10.3788/AOS240644>, Registrované v: SCOPUS

14. [1.2] ZHOU, Guoliang - LI, Pan - XIAO, Yuanhui - CHEN, Siyu - WENG, Shirui - DONG, Ronglu - LIN, Dongyue - WU, De Yin - YANG, Liangbao. *Observing π -Au Interaction between Aromatic Molecules and Single Au Nanodimers with a Subnanometer Gap by SERS. In Analytical Chemistry, 2024-01-09, 96, 1, pp. 197-203. ISSN 00032700. Dostupné na: <https://doi.org/10.1021/acs.analchem.3c03600>, Registrované v: SCOPUS*

ADCA531 LUBY, Štefan - MAJKOVÁ, Eva - JERĚEL, Matej - ANNA, E.D. - LEGGIERI, G. - LUCHES, A. - MARTINO, M. - VALÍČEK, J. Intermixing in immiscible molybdenum/copper multilayered metallization under excimer laser irradiation. In *Applied Surface Science*, 1996, vol. 106, p. 243-246. (1996 - Current Contents). ISSN 0169-4332. Dostupné na: [https://doi.org/10.1016/S0169-4332\(96\)00364-9](https://doi.org/10.1016/S0169-4332(96)00364-9)

Citácie:

1. [1.1] ZHUANG, Zehang - LI, Zongbo - XU, Leilei - FENG, Yan - WANG, Richu - PENG, Chaoqun. *The influence of ball milling conditions on the powder characteristics and sintering densification of Mo-Cu alloy. In INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS, 2024, vol. 125, no., art. no. 106914. ISSN 0263-4368. Dostupné na: <https://doi.org/10.1016/j.ijrmhm.2024.106914>, Registrované v: WOS*

ADCA532 LUBY, Štefan - MAJKOVÁ, Eva - JERĚEL, Matej - BRUNEL, M. - LEGGIERI, G. - LUCHES, A. - MAJNÍ, G. - MENGUCI, P. Stability of interfaces in Mo/Cu multilayered metallization. In *Thin Solid Films*, 1996, vol. 277, no. 1-2, p. 138-143. (1996 - Current Contents). ISSN 0040-6090. Dostupné na: [https://doi.org/10.1016/0040-6090\(95\)08014-7](https://doi.org/10.1016/0040-6090(95)08014-7)

Citácie:

1. [1.1] YEOM, Jeyun - LORENZIN, Giacomo - GHISALBERTI, Lea - CANCELLIERI, Claudia - JANCZAK-RUSCH, Jolanta. *The thermal stability and degradation mechanism of Cu/Mo nanomultilayers. In SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS, 2024, vol. 25, no. 1, art. no. 2357536. ISSN 1468-6996. Dostupné na: <https://doi.org/10.1080/14686996.2024.2357536>, Registrované v: WOS*

ADCA533 LUO, Cihang** - BEUTEL, Rolf G. - ENGEL, Michael - LIANG, Kun - LI, Liqin - LI, Jiahao - XU, Chunpeng - VRŠANSKÝ, Peter - JARZEMBOWSKI, Edmund - WANG, Bo**. Life history and evolution of the enigmatic Cretaceous-Eocene Alienopteridae: A critical review. In *Earth-Science Reviews*, 2022, vol. 225, art. no. 103914. (2021: 12.038 - IF, Q1 - JCR, 3.610 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0012-8252. Dostupné na: <https://doi.org/10.1016/j.earscirev.2021.103914>

Citácie:

1. [1.1] MARTON, Szabo - SENDI, Hemen - OSI, Attila. *A new species of the vitismin cockroach genus Perspicuus Koubová, 2020 from the Late Cretaceous (Santonian) of Hungary. In ZOOTAXA, 2024, vol. 5437, no. 1, pp. 105-114. ISSN 1175-5326. Available on: <https://doi.org/10.11646/zootaxa.5437.1.6>, Registrované v: WOS*

2. [1.1] OLLERTON, Jeff. *What Are the Phylogenetic Limits to Pollinator Diversity? In JOURNAL OF APPLIED ENTOMOLOGY, 2024, vol., no. ISSN 0931-2048. Available on: <https://doi.org/10.1111/jen.13355>, Registrované v: WOS*

3. [1.1] PERGER, Robert. *Myrmecium colombianum (Poinar, 2024) n. comb.-the second known fossilized castianeirine spider, illustration of a further specimen of*

Myrmecium in Colombian copal and notes on transformational ant mimicry and evolution of the genus. In ZOOTAXA, 2024, vol. 5474, no. 4, pp. 445-450. ISSN 1175-5326. Available on: <https://doi.org/10.11646/zootaxa.5474.4.7>, Registrované v: WOS

4. [1.1] SENDI, Hemen. *Nigropterix cummingi* sp. n., an umenocoleid (Insecta: Dictyoptera) from mid-Cretaceous northern Myanmar amber. In ZOOTAXA, 2024, vol. 5424, no. 4, pp. 476-482. ISSN 1175-5326. Available on:

<https://doi.org/10.11646/zootaxa.5424.4.6>, Registrované v: WOS

5. [1.1] ZHANG, Jiaming - CHEN, Lei - LUO, Cihang. Cockroach *Clypeblattula panda* gen. et sp. n. (Blattaria: Blattulidae) from the Lower Cretaceous Laiyang Formation of China. In CRETACEOUS RESEARCH, 2024, vol. 160, no., art. no. 105907. ISSN 0195-6671. Available on:

<https://doi.org/10.1016/j.cretres.2024.105907>, Registrované v: WOS

ADCA534 LV, B. F. - PETRACHE, C. M.** - ASTIER, A. - DUPONT, E. - LOPEZ-MARTENS, A. - GREENLEES, P. T. - BADRAN, H. - CALVERLEY, T. - COX, D. M. - GRAHN, T. - HILTON, J. - JULIN, R. - JUUTINEN, S. - KONKI, J. - LEINO, M. - PAKARINEN, J. - PAPADAKIS, P. - PARTANEN, J. - RAHKILA, P. - SANDZELIUS, M. - SAREN, J. - SCHOLEY, C. - SORRI, J. - STOLZE, S. - UUSITALO, J. - HERZÁŇ, Andrej - CEDERWALL, B. - ERTOPRAK, A. - LIU, H. - GUO, S. - LIU, M. L. - QIANG, Y. H. - WANG, J. G. - ZHOU, X. H. - KUTI, I. - TIMÁR, J. - TUCHOLSKI, A. - SREBRNY, J. - ANDREOIU, C. Evolution from γ -soft to stable triaxiality in ^{136}Nd as a prerequisite of chirality. In Physical Review C, 2018, vol. 98, no. 4, art. no. 044304. (2017: 3.304 - IF, Q2 - JCR, 1.443 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.98.044304>

Citácie:

1. [1.1] BUDACA, Radu. *A semiclassical perspective on nuclear chirality. In FRONTIERS OF PHYSICS, 2024, vol. 19, no. 2, art. no. 24301. ISSN 2095-0462. Dostupné na: <https://doi.org/10.1007/s11467-023-1339-6>, Registrované v: WOS*

2. [1.1] TENG, J. X. - MA, K. Y. - LU, J. B. - ZHANG, H. C. - WANG, H. - LIU, S. Y. - ZHAO, D. - YE, H. Y. - LI, J. Y. - ZHAO, X. J. - ZHAO, Z. H. - HAO, Y. C. - QIAO, Z. - MA, Y. J. - YANG, D. - WU, X. G. - ZHENG, Y. - LI, C. B. Possible multiple chiral doublet bands in odd-odd ^{128}La . In PHYSICAL REVIEW C, 2024, vol. 109, no. 3, art. no. 034308. ISSN 2469-9985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.109.034308>, Registrované v: WOS

ADCA535 MAAS, Axel. More on Gribov copies and propagators in Landau-gauge Yang-Mills theory. In Physical Review D, 2009, vol. 79, no. 1, art. no. 014505. (2008: 5.050 - IF, Q1 - JCR, 2.920 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: <https://doi.org/10.1103/PhysRevD.79.014505>

Citácie:

1. [1.1] GAO, Xiang - HE, Jinchen - ZHANG, Rui - ZHAO, Yong. Systematic Uncertainties from Gribov Copies in Lattice Calculation of Parton Distributions in the Coulomb Gauge. In CHINESE PHYSICS LETTERS, 2024, vol. 41, no. 12, art. no. 121201. ISSN 0256-307X. Dostupné na: <https://doi.org/10.1088/0256-307X/41/12/121201>, Registrované v: WOS

2. [1.1] MENA, C. - PALHARES, L. F. Quark and proton anomalous magnetic moments in confining models. In PHYSICAL REVIEW D, 2024, vol. 109, no. 9, art. no. 094006. ISSN 2470-0010. Dostupné na:

<https://doi.org/10.1103/PhysRevD.109.094006>, Registrované v: WOS

ADCA536 MAHAPATRA, Apurba - ANILKUMAR, Vishnu - KRUSZYNSKA, Joanna - MRKÝVKOVÁ, Nad'a, Tesařová - ŠIFFALOVÍČ, Peter - YADAV, Pankaj -

PROCHOWICZ, Daniel. Ionic liquid-assisted growth of high-quality methylammonium lead bromide single crystals for photodetection applications. In *Journal of Materials Chemistry C*, 2024, vol. 12, no. 8, p. 2953-2960. (2023: 5.7 - IF, Q1 - JCR, 1.358 - SJR, Q1 - SJR). ISSN 2050-7526. Dostupné na: <https://doi.org/10.1039/d3tc04511k>

Citácie:

1. [1.1] LIU, Dong - JIANG, Xianyuan - WANG, Hao - CHEN, Hao - LU, Ying-Bo - DONG, Siyu - NING, Zhijun - WANG, Yong - WU, Zhongchen - LING, Zongcheng. *Perovskite Single Crystals by Vacuum Evaporation Crystallization*. In *ADVANCED SCIENCE*, 2024, vol. 11, no. 22. Dostupné na:

<https://doi.org/10.1002/advs.202400150>, Registrované v: WOS

2. [1.1] YAO, Zhengzheng - ZHOU, Shiyi - CHEN, Xiang - NING, Lei - SONG, Lixin - XIONG, Jie. *Ionic liquid regulating perovskite film for air-processed perovskite solar cells*. In *MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING*, 2024, vol. 184, no., art. no. 108794. ISSN 1369-8001. Dostupné na: <https://doi.org/10.1016/j.mssp.2024.108794>, Registrované v: WOS

ADCA537 MACHATA, Peter** - HOFBAUEROVÁ, Monika, Benkovičová - SOYKA, Yaryna - STEPURA, Anastasiia - TRUCHAN, Daniel - HALAHOVETS, Yuriy - MIČUŠÍK, Matej - ŠIFFALOVÍČ, Peter - MAJKOVÁ, Eva - OMASTOVÁ, Mária**. Wettability of MXene films. In *Journal of Colloid and Interface Science*, 2022, vol. 622, p. 759-768. (2021: 9.965 - IF, Q1 - JCR, 1.397 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0021-9797. Dostupné na: <https://doi.org/10.1016/j.jcis.2022.04.135>

Citácie:

1. [1.1] CHEN, Chih-Wei - CHANG, Chi-Jung - LIAW, Shien-Kuei - LU, Chien-Hsing - CHEN, Jem-Kun. *Exfoliated MXene nanosheet by double layer forces for preparing magnetic adsorbents of toxic metal ions and recycling with hyperthermic effect*. In *SEPARATION AND PURIFICATION TECHNOLOGY*, 2024, vol. 349, no., art. no. 127855. ISSN 1383-5866. Dostupné na:

<https://doi.org/10.1016/j.seppur.2024.127855>, Registrované v: WOS

2. [1.1] GAO, Lanlan - WANG, Hong - ZHOU, Yunlei - TIAN, Zhipeng - YIN, Huanshun - WANG, Jun. *Preparation of Ti3C2Tx-based MXene composite aerogel and its adsorption performance for dibutyl phthalate*. In *COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS*, 2024, vol. 686, no., art. no. 133452. ISSN 0927-7757. Dostupné na:

<https://doi.org/10.1016/j.colsurfa.2024.133452>, Registrované v: WOS

3. [1.1] JANG, Moonjeong - KIM, Seoung Hyun - KIM, Shinho - CHAE, Kwanbyung - CHOI, Sodam - HA, Hwi Heon - SONG, Jungchul - BAK, Min Jun - CHO, Su-Ho - KIM, Eunji - SONG, Wooseok - HAN, Hee - JANG, Min Seok - AHN, Chi Won - LEE, Yonghee. *Unleashing 2D MXene's Plasmonic Effect for Advanced Photonic Device Applications*. In *ADVANCED FUNCTIONAL MATERIALS*, 2024, vol. 34, no. 46. ISSN 1616-301X. Dostupné na:

<https://doi.org/10.1002/adfm.202405341>, Registrované v: WOS

4. [1.1] SRINIVAS, Pooja - JACOB, Liya - SHEBEEB, Muhammed C. - BUTT, Haider - BARSOUM, Imad - ABU AL-RUB, Rashid K. - ZAKI, Wael. *Mechanical Properties, Energy Absorption, and Shape Memory Behavior of 3D Printed PLA-MXene Nanocomposites and Gyroid Lattices*. In *ADVANCED ENGINEERING MATERIALS*, 2024, vol. 26, no. 12. ISSN 1438-1656. Dostupné na:

<https://doi.org/10.1002/adem.202301698>, Registrované v: WOS

ADCA538 MAJERNÍKOVÁ, Eva - SHPYRKO, S. Quantum chaotic patterns in the $E \otimes (b_1 + b_2)$ Jahn-Teller mode. In *Physical Review E*, 2006, vol. 73, no. 5, art. no. 057202. (2005: 2.418 - IF, Q1 - JCR, 1.204 - SJR, Q1 - SJR, karentované - CCC).

(2006 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na:
<https://doi.org/10.1103/PhysRevE.73.057202>

Citácie:

1. [1.1] CHORBADZHIYSKA, Yoana R. - IVANOV, Peter A. Onset of quantum thermalization in the Jahn-Teller model. In *PHYSICAL REVIEW E*, 2024, vol. 110, no. 4, art. no. 044127. ISSN 2470-0045. Dostupné na:

<https://doi.org/10.1103/PhysRevE.110.044127>, Registrované v: WOS

ADCA539 MAJERNÍKOVÁ, Eva - SHPYRKO, S. Incipience of quantum chaos in the Jahn-Teller model. In *Physical Review E*, 2006, vol. 73, no. 6, art. no. 066215. (2005: 2.418 - IF, Q1 - JCR, 1.204 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na:
<https://doi.org/10.1103/PhysRevE.73.066215>

Citácie:

1. [1.1] CHORBADZHIYSKA, Yoana R. - IVANOV, Peter A. Onset of quantum thermalization in the Jahn-Teller model. In *PHYSICAL REVIEW E*, 2024, vol. 110, no. 4, art. no. 044127. ISSN 2470-0045. Dostupné na:

<https://doi.org/10.1103/PhysRevE.110.044127>, Registrované v: WOS

ADCA540 MAJERNÍKOVÁ, Eva - SHPYRKO, S. Quantum phase crossover and chaos in a generalized Jahn-Teller lattice model. In *Journal of Physics A: Mathematical and Theoretical*, 2011, vol. 44, no. 6, art. no. 065101. (2010: 1.641 - IF, Q2 - JCR, 1.060 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, EBSCO, SCOPUS). ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8113/44/6/065101>

Citácie:

1. [1.1] CHORBADZHIYSKA, Yoana R. - IVANOV, Peter A. Onset of quantum thermalization in the Jahn-Teller model. In *PHYSICAL REVIEW E*, 2024, vol. 110, no. 4, art. no. 044127. ISSN 2470-0045. Dostupné na:

<https://doi.org/10.1103/PhysRevE.110.044127>, Registrované v: WOS

ADCA541 MAJKOVÁ, Eva - CHUSHKIN, Y. - JERGEL, Matej - LUBY, Štefan - HOLÝ, V. - MAŤKO, Igor - CHENEVIER, B. - TOTH, L. - HATANO, T. - YAMAMOTO, M. Nanometer-scale period Sc/Cr multilayer mirrors and their thermal stability. In *Thin Solid Films : international journal on the science and technology of Thin and Thick Films*, 2006, vol. 497, no. 1-2, p. 115-120. (2005: 1.569 - IF, Q1 - JCR, 1.179 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0040-6090. Dostupné na: <https://doi.org/10.1016/j.tsf.2005.10.051>

Citácie:

1. [1.1] CHANG, Chenyuan - WEI, Zhenbo - ZHANG, Zhe - JIANG, Li - JIANG, Hui - MA, Hongchen - ZHANG, Zhong - WANG, Zhanshan. Annealing Process-Induced Microstructural Variation in NiV/B4C Multilayers. In *APPLIED SCIENCES-BASEL*, 2024, vol. 14, no. 24, art. no. 11664. Dostupné na:

<https://doi.org/10.3390/app142411664>, Registrované v: WOS

2. [1.1] SOLOMONOV, A. V. - SAKHONENKOV, S. S. - FILATOVA, E. O. Study of the Effect of Si and Be Barrier Layers on Crystallization of Cr/Sc Multilayer X-ray Mirror. In *CRYSTALLOGRAPHY REPORTS*, 2024, vol. 69, no. 1, pp. 58-64. ISSN 1063-7745. Dostupné na: <https://doi.org/10.1134/S1063774523601284>,

Registrované v: WOS

ADCA542 MAJKOVÁ, Eva - LUBY, Štefan - JERGEL, Matej - VONLOHNEYSSEN, H. - STRUNK, C. - GEORGE, B. Superconductivity and Critical Fields in Amorphous Tungsten/Silicon Multilayers. In *Physica Status Solidi A : applications and materials science*, 1994, vol. 145, no. 2, p. 509-519. (1993: 0.570 - IF, karentované - CCC). (1994 - Current Contents). ISSN 1862-6300. Dostupné na:
<https://doi.org/10.1002/pssa.2211450235>

Citácie:

1. [1.1] KRAUSE, Baerbel - FURGEAUD, Clarisse - MASTAIL, Cedric - MICHEL, Anny - PARENT, Salome - ABADIAS, Gregory - RESTA, Andrea - COATI, Alessandro - GARREAU, Yves - VLAD, Alina. *Real-time study of the interplay between phase formation and stress evolution at the W1-xSix/a-Si interface*. In *PHYSICAL REVIEW MATERIALS*, 2024, vol. 8, no. 10, art. no. 103401. ISSN 2475-9953. Dostupné na: <https://doi.org/10.1103/PhysRevMaterials.8.103401>, Registrované v: WOS
- ADCA543 MAJLING, L. - GMUCA, Štefan. What can we learn about baryon-baryon interaction from hypernuclei H-6(Lambda) and H-8(Lambda)? In *Physics of Atomic Nuclei*, 2007, vol. 70, no. 9, p. 1611-1616. Dostupné na: <https://doi.org/10.1134/S1063778807090190>
Citácie:
1. [1.1] KORNILOVA, A. S. - LANSKOY, D. E. - MIKHEEV, S. A. - SIDOROV, S. V. - TRETYAKOVA, T. Y. *Light hypernuclei at the boundary of neutron stability*. In *INTERNATIONAL JOURNAL OF MODERN PHYSICS E*, 2024, vol. 33, no. 11, art. no. 2441002. ISSN 0218-3013. Dostupné na: <https://doi.org/10.1142/S0218301324410027>, Registrované v: WOS
- ADCA544 MALAKHOV, A.I. - AFANASIEV, S.V. - ANISIMOV, Yu.S. - ARTIOMOV, A.S. - BAZILEV, S.N. - KHRENOV, A.N. - KLIMAN, Ján - KRASNOV, V.A. - MATOUŠEK, Vladislav - MORHÁČ, Miroslav - STARIKOV, A.Yu. - SHABUNOV, A.V. - SLEPNEV, V.M. - TURZO, Ivan. Potentialities of the internal target station at the Nuclotron. In *Nuclear Instruments and Methods in Physics Research A. Accelerators, Spectrometers, Detectors and Associated Equipment*, 2000, vol. 440, no. 2, p. 320-329. (1999: 0.921 - IF, karentované - CCC). (2000 - Current Contents, SCOPUS). ISSN 0168-9002. Dostupné na: [https://doi.org/10.1016/S0168-9002\(99\)00966-3](https://doi.org/10.1016/S0168-9002(99)00966-3)
Citácie:
1. [1.1] VOLKOV, I. S. - AVERYANOV, A. V. - VNUKOV, I. E. - GURCHIN, Yu. V. - ENACHE, D. - ISUPOV, A. Yu. - KARACHUK, J.t. - KRIVENKOV, D. O. - KURILKIN, P. K. - LADYGIN, V. P. - LIVANOV, A. N. - PIYADIN, S. M. - REZNIKOV, S. G. - SKHOMENKO, Ya. T. - TEREKHIN, A. A. - TISHEVSKY, A. V. - CHERNYKH, E. V. - JANEK, M. *Analyzing Power Measurements of Quasi-Elastic Proton-Proton Scattering at the Intermediate Energies at the Nuclotron Internal Target*. In *PHYSICS OF ATOMIC NUCLEI*, 2024, vol. 87, no. SUPPL3, pp. S438-S451. ISSN 1063-7788. Dostupné na: <https://doi.org/10.1134/S1063778824701072>, Registrované v: WOS
- ADCA545 MALKOC, Ognjen - STAŇO, Peter** - LOSS, Daniel. Charge-Noise-Induced Dephasing in Silicon Hole-Spin Qubits. In *Physical Review Letters*, 2022, vol. 129, no. 24, art. no. 247701. (2021: 9.185 - IF, Q1 - JCR, 3.246 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.129.247701>
Citácie:
1. [1.1] HSUEH, Yu-Ling - KEITH, Daniel - CHUNG, Yousun - GORMAN, Samuel K. - KRANZ, Ludwik - MONIR, Serajum - KEMBREY, Zachary - KEIZER, Joris G. - RAHMAN, Rajib - SIMMONS, Michelle Y. *Engineering Spin-Orbit Interactions in Silicon Qubits at the Atomic-Scale*. In *ADVANCED MATERIALS*, 2024, vol. 36, no. 26. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202312736>, Registrované v: WOS
2. [1.1] LIU, Yang - GUAN, Shan - LUO, Jun-Wei - LI, Shu-Shen. *Progress of Gate-Defined Semiconductor Spin Qubit: Host Materials and Device Geometries*. In *ADVANCED FUNCTIONAL MATERIALS*, 2024, vol. 34, no. 19. ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202304725>, Registrované v:

WOS

3. [1.1] MAURO, Lorenzo - RODRIGUEZ-MENA, Esteban A. - BASSI, Marion - SCHMITT, Vivien - NIQUET, Yann-Michel. Geometry of the dephasing sweet spots of spin-orbit qubits. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 15, art. no. 155406. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.109.155406>, Registrované v: WOS

4. [1.1] PREM, Sarath - SHEN, Pei-Xin - WYSOKINSKI, Marcin M. - TRIF, Mircea. Longitudinal coupling between electrically driven spin qubits and a resonator. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 15, art. no. 155304. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.155304>, Registrované v: WOS

5. [1.1] WANG, Zhanning - SARKAR, Abhikbrata - LILES, S. D. - SARAIVA, Andre - DZURAK, A. S. - HAMILTON, A. R. - CULCER, Dimitrie. Electrical operation of hole spin qubits in planar MOS silicon quantum dots. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 7, art. no. 075427. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.075427>, Registrované v: WOS

ADCA546 MAMALIS, A.G. - HRISTOFOROU, E. - MANOLAKOS, D.E. - ŠVEC, Peter - PRIKHNA, T. - THEODORAKOPOULOS, J.D. - KOUZILOS, G. Explosive compaction and synthesis of MgB₂ superconductor using the powder in tube technique. In *Journal of Optoelectronics and Advanced Materials*, 2008, vol. 10, no. 5, p. 1000-1004. ISSN 1454-4164.

Citácie:

1. [1.1] TOLENDIULY, Sanat - NUR-AKASYAH, Jaafar - FOMENKO, Sergey - TURAN, Ahmet - ASSYLKHAN, Sharafhan - ABISHEVA, Aigul. High-Temperature Synthesis of Superconducting MgB₂ Materials in a Centrifuge. In *JOURNAL OF COMPOSITES SCIENCE*, 2024, vol. 8, no. 7, art. no. 267. ISSN 2504-477X.

Dostupné na: <https://doi.org/10.3390/jcs8070267>, Registrované v: WOS

ADCA547 MANCHÓN-GORDÓN, A. F. - ŠVEC, Peter Jr. - IPUS, J. J. - KOWALCZYK, M. - BLÁZQUEZ, J. S.** - CONDE, C. F. - CONDE, A. - ŠVEC, Peter - KULIK, T. Devitrification of Mechanically Alloyed Fe-Nb System: Mössbauer Study of the Intermetallic Phases. In *Metallurgical and materials transactions A : physical metallurgy and materials science*, 2020, vol. 51, no. 3, p. 1395-1401. (2019: 2.050 - IF, Q2 - JCR, 0.906 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1073-5623. Dostupné na: <https://doi.org/10.1007/s11661-019-05610-5>

Citácie:

1. [1.1] WANG, Z. R. - YANG, T. - WU, D. - WANG, C. M. - GUO, H. - HU, Q. - GUO, S. Effect of Si addition on Curie temperature and thermal expansion coefficient of (Fe_{71.2}B₂₄Y_{4.8})₉₆Nb₄ Invar bulk metallic glasses. In *JOURNAL OF APPLIED PHYSICS*, 2024, vol. 136, no. 4, art. no. 045110. ISSN 0021-8979.

Dostupné na: <https://doi.org/10.1063/5.0211847>, Registrované v: WOS

ADCA548 MANCHÓN-GORDÓN, A.F. - IPUS, J.J. - KOWALCZYK, M. - BLÁZQUEZ, J.S.** - CONDE, C.F. - ŠVEC, Peter - KULIK, T. - CONDE, A. Comparative study of structural and magnetic properties of ribbon and bulk Ni₅₅Fe₁₉Ga₂₆ Heusler alloy. In *Journal of Alloys and Compounds*, 2021, vol. 889, art. no. 161819. (2020: 5.316 - IF, Q1 - JCR, 0.746 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2021.161819>

Citácie:

1. [1.1] SHARMA, Jyoti - WARRIER, Suresh Gopinatha - RAJA, M. Manivel - ALAM, Aftab. Unconventionally Large Exchange Bias and Cluster Spin Glass State in Mn₂(Ni,Sn) Heusler Alloys Melt Spun Ribbons. In *ACS APPLIED ELECTRONIC MATERIALS*, 2024, vol. 6, no. 9, pp. 6356-6364. Dostupné na:

- <https://doi.org/10.1021/acsaelm.4c00765>, *Registrované v: WOS*
- ADCA549 MANZOOR, Mumtaz - IQBAL, Muhammad Waqas - RIAZ, Shahbaz - ALMUTAIRI, Badriah S. - KHERA, Ejaz Ahmad - ASGHAR, Mazia - ANSARI, Mohd Zahid - KHENATA, Rabah - BIN-OMRAN, Saad - ASLAM, Muhammad. First-principles calculations to investigate structural, electronic, optical and thermoelectric properties of novel double perovskite Cs₂CeAgX₆ (X = Cl, Br) for optoelectronic and thermoelectric applications. In Chemical Physics, 2023, vol. 575, art. no. 112065. (2022: 2.3 - IF, Q3 - JCR, 0.448 - SJR, Q2 - SJR). ISSN 0301-0104. Dostupné na: <https://doi.org/10.1016/j.chemphys.2023.112065>
- Citácie:
1. [1.1] TANG, Tianyu - TANG, Yanlin. First-principles investigations of Fe-based A₃BX ceramics with high stiffness and damage tolerance. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS, 2024, vol. 26, no. 30, pp. 20530-20549. ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/d4cp01244e>, *Registrované v: WOS*
- ADCA550 MANZOOR, Mumtaz - BEHERA, Debidatta - SHARMA, Ramesh - MOAYAD, A.J.A. - AL-KAHTANI, Abdullah A. - KUMAR, Yedluri Anil. Comprehensive first principles to investigate optoelectronic and transport phenomenon of lead-free double perovskites Ba₂AsBO₆ (B= Nb, Ta) compounds. In Heliyon, 2024, vol. 10, no. 9, art. no. e30109. (2023: 3.4 - IF, Q1 - JCR, 0.617 - SJR, Q1 - SJR). ISSN 2405-8440. Dostupné na: <https://doi.org/10.1016/j.heliyon.2024.e30109>
- Citácie:
1. [1.1] HUA, Yongbin - YANG, Wen-Xing. Novel non-rare-earth phosphors of Mn²⁺/SUP-activated CaSrInTaO₆ double-perovskite matrix for luminescence lifetime thermometry. In CERAMICS INTERNATIONAL, 2024, vol. 50, no. 20, pp. 38365-38371. ISSN 0272-8842. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.07.202>, *Registrované v: WOS*
- ADCA551 MANZOOR, Mumtaz - HUSSAIN, Mukhtiar - ASLAM, Muhammad - BUNTOV, Evgeny - SHARMA, Ramesh - ALSHOMRANY, Ali S. - SFINA, N. Tailoring the physical, optoelectronic and transport properties of novel lead-free Sodium perovskites Na₂TeX₆ (X = Cl, Br, I) using DFT computation for photovoltaic and thermal devices. In Chinese Journal of Physics, 2024, vol. 89, p. 1333-1346. (2023: 4.6 - IF, Q1 - JCR, 0.637 - SJR, Q2 - SJR). ISSN 0577-9073. Dostupné na: <https://doi.org/10.1016/j.cjph.2024.02.027>
- Citácie:
1. [1.1] IQBAL, Javed - ULLAH, Habib - ARCHI, Marouane - ULLAH, Naimat - ULLAH, Saeed - ULLAH, Riaz - IQBAL, Zafar. Enchanting optical, electronic, and mechanical properties of the sodium based Na₂MgSiZ₆ (Z = I, Br, Cl) halides have been explored through DFT. In PHYSICA SCRIPTA, 2024, vol. 99, no. 11, art. no. 115949. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad82b8>, *Registrované v: WOS*
- ADCA552 MANZOOR, Mumtaz** - IQBAL, Muhammad Waqas - SADIQUE, Iqra - WABAIDUR, Saikh Mohammad - AL-AMMAR, Essam A. - ŠTICH, Ivan - SHARMA, Ramesh - ANSARI, Mohd Zahid. A DFT study: Tailoring Opto-Electronic and Thermoelectric Performance of K₂SeX₆ (X = Cl, Br) Double Perovskites for Solar Cell Advancements. In Chinese Journal of Physics, 2024, vol. 89, p. 278-289. (2023: 4.6 - IF, Q1 - JCR, 0.637 - SJR, Q2 - SJR). ISSN 0577-9073. Dostupné na: <https://doi.org/10.1016/j.cjph.2023.09.016>
- Citácie:
1. [1.1] ZHANG, Hao - OU, Tianji - JIANG, Wei - WANG, Xiaomeng - ZHUANG, Quan - FENG, Shuang - SUN, Yong - LI, Peifang - MA, Xinjun. The impact of halogens on the structural, electronic, and optical properties of vacancy-ordered

- double perovskites Rb₂SeX₆ (X=I, Br, Cl). In JOURNAL OF SOLID STATE CHEMISTRY, 2024, vol. 340, no., art. no. 125002. ISSN 0022-4596. Dostupné na: <https://doi.org/10.1016/j.jssc.2024.125002>, Registrované v: WOS*
- ADCA553 MARAKATTI, Vijaykumar S. - SARMA, Saurav Ch. - SARKAR, Shreya - KRAJČÍ, Marián - GAIGNEAUX, Eric M. - PETER, Sebastian C.**. Synthetically Tuned Pd-Based Intermetallic Compounds and their Structural Influence on the O₂ Dissociation in Benzylamine Oxidation. In ACS Applied Materials & Interfaces, 2019, vol. 11, no. 41, p. 37602-37616. (2018: 8.456 - IF, Q1 - JCR, 2.596 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.9b11318>
- Citácie:
1. [1.1] WU, Henry - HAZELNIS, Joshua P. - MALDONADO, Stephen. *Electrochemical Liquid-Liquid-Solid Growth of Ag-In Crystals with Liquid Indium Alloy Electrodes. In CHEMELECTROCHEM, 2024, vol. 11, no. 14. ISSN 2196-0216. Dostupné na: <https://doi.org/10.1002/celc.202400229>, Registrované v: WOS*
- ADCA554 MARKOŠ, Peter - SOUKOULIS, C.M. Numerical studies of left-handed materials and arrays of split ring resonators. In Physical Review E, 2002, vol. 65, no. 3, art. no. 036622. (2001: 2.235 - IF, karentované - CCC). (2002 - Current Contents). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.65.036622>
- Citácie:
1. [1.1] MORADI, Afshin - BAIT-SUWAILAM, Mohammed M. *Magnetostatic waves in metallic rectangular waveguides filled with uniaxial negative permeability media. In JOURNAL OF APPLIED PHYSICS, 2024, vol. 135, no. 15, art. no. 153102. ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/5.0187806>, Registrované v: WOS*
2. [1.2] CHETAN, S. - CHANDRAPPA, D. N. *A Metamaterial-Inspired Monopole Antenna for Multi-Resonance Applications. In Digital Convergence in Antenna Designs Applications for Real Time Solutions, 2024-01-01, pp. 207-221. ISBN [9781119879701, 9781119879923]. Dostupné na: <https://doi.org/10.1002/9781119879923.ch10>, Registrované v: SCOPUS*
3. [1.2] MOOD, Yugender - PANDEESWARI, Ramasamy. *Complementary Folded Line Metamaterial Loaded MIMO Antenna for S-Band Applications. In Progress in Electromagnetics Research C, 2024-01-01, 150, pp. 145-155. ISSN 19378718. Dostupné na: <https://doi.org/10.2528/PIERC24060604>, Registrované v: SCOPUS*
- ADCA555 MARKOŠ, Peter - KRAMER, B. Statistical properties of the Anderson transition-numerical results. In Philosophical Magazine B, 1993, vol. 68, no. 3, p. 357-379. Dostupné na: <https://doi.org/10.1080/13642819308215292>
- Citácie:
1. [1.1] POURANVARI, Mohammad. *Probing electron localization and delocalization in the selective long-range tight-binding model. In EUROPEAN PHYSICAL JOURNAL B, 2024, vol. 97, no. 10, art. no. 162. ISSN 1434-6028. Dostupné na: <https://doi.org/10.1140/epjb/s10051-024-00802-4>, Registrované v: WOS*
- ADCA556 MARKOŠ, Peter. Dimension dependence of the conductance distribution in the nonmetallic regimes. In Physical Review B, 2002, vol. 65, no. 10, art. no. 104207. (2001: 3.070 - IF, karentované - CCC). (2002 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.65.104207>
- Citácie:
1. [1.1] NAYAK, Naba P. - SARKAR, Surajit - DAMLE, Kedar - BERA, Soumya. *Band-center metal-insulator transition in bond-disordered graphene. In PHYSICAL REVIEW B, 2024, vol. 109, no. 3, art. no. 035109. ISSN 2469-9950.*

Dostupné na: <https://doi.org/10.1103/PhysRevB.109.035109>, Registrované v: WOS

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MARKOVIĆ, Zoran M.** - LABUDOVÁ, Martina - DANKO, Martin - MATIJAŠEVIĆ, Danka - MIČUŠÍK, Matej - NÁDAŽDY, Vojtech - KOVÁČOVÁ, Mária - KLEINOVÁ, Angela - ŠPITÁLSKY, Zdenko - PAVLOVIĆ, Vladimír - MILIVOJEVIĆ, Dušan D. - MEDIĆ, Mina - TODOROVIĆ MARKOVIĆ, Biljana M.**. Highly Efficient Antioxidant F- and Cl-Doped Carbon Quantum Dots for Bioimaging. In ACS Sustainable Chemistry & Engineering, 2020, vol. 8, no. 43, p. 16327-16338. (2019: 7.632 - IF, Q1 - JCR, 1.766 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2168-0485. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c06260>

Citácie:

1. [1.1] CHEN, Yunteng - HONG, Chunxian - XU, Qiang - ZHENG, Haihong - WANG, Chao - LU, Hongshun - ZHANG, Shuai - DU, Mingming - ZENG, Ganning. Visible Light Enhancement of Biocarbon Quantum-Dot-Decorated TiO₂ for Naphthalene Removal. In MOLECULES, 2024, vol. 29, no. 11, art. no. 2708. Dostupné na: <https://doi.org/10.3390/molecules29112708>, Registrované v: WOS
2. [1.1] DANAWALA, Tanazparveen M. - TRIVEDI, Komal A. - LAD, Urvi M. - DESAI, Bhumi N. - SINGH, Subodh Kumar - SUTHAR, Devesh H. - MODI, Chetan K. Luminescent carbon quantum dots derived from syzygium cumini seeds with endogenous anti-oxidant and cytotoxic potency including in vitro photoluminescence and live cell imaging. In NEW JOURNAL OF CHEMISTRY, 2024, vol. 48, no. 7, pp. 3045-3054. ISSN 1144-0546. Dostupné na: <https://doi.org/10.1039/d4nj00040d>, Registrované v: WOS
3. [1.1] DJIAZET, Steve - DESMARETS, Christophe - RINNERT, Herve - JASNIEWSKI, Jordane - MEDJAHDI, Ghouti - BALAN, Lavinia - SCHNEIDER, Raphael. Photoluminescent Carbon Quantum Dots from Dichrostachys glomerata Pods with Antioxidant and CuSUP2+/SUP Chelating Properties. In CHEMNANOMAT, 2024, vol. 10, no. 6. ISSN 2199-692X. Dostupné na: <https://doi.org/10.1002/cnma.202300635>, Registrované v: WOS
4. [1.1] FU, Min - CRITCHLEY, Kevin. Inkjet printing of heavy-metal-free quantum dots-based devices: a review. In NANOTECHNOLOGY, 2024, vol. 35, no. 30, art. no. 302002. ISSN 0957-4484. Dostupné na: <https://doi.org/10.1088/1361-6528/ad40b3>, Registrované v: WOS
5. [1.1] GUO, Yu - ZHU, Qi - WANG, Ziming - YE, Yuxuan - HU, Jiarui - SHANG, Jiaxiang - LI, Bin - DU, Zhiguo - YANG, Shubin. Minutes-Fast Production of Vacancy-Enriched MXenes as an Efficient Platform for Single-Atom Electrocatalysts. In ADVANCED ENERGY MATERIALS, 2024, vol. 14, no. 17. ISSN 1614-6832. Dostupné na: <https://doi.org/10.1002/aenm.202304149>, Registrované v: WOS
6. [1.1] GUZMAN-LOPEZ, Jose E. - PEREZ-ISIDORO, Rosendo - AMADO-BRIENO, Miguel A. - LOPEZ, Israel - VILLAREAL-CHIU, Juan Francisco - SANCHEZ-CERVANTES, Eduardo M. - VAZQUEZ-GARCIA, Rosa A. - ESPINOSA-ROA, Arian. Facile one-pot electrochemical synthesis and encapsulation of carbon quantum dots in GUVs. In CHEMICAL PHYSICS IMPACT, 2024, vol. 8, no., art. no. 100519. ISSN 2667-0224. Dostupné na: <https://doi.org/10.1016/j.chphi.2024.100519>, Registrované v: WOS
7. [1.1] HU, Xiaoyan - ZHANG, Yafei - LI, Hao - CAO, Jun - PAN, Jiaqi - LI, Chaorong - ZHENG, Yingying. pH response mechanism of bifunctional fluorescent carbon quantum dots and application in cancer detection and bioself-targeting imaging. In JOURNAL OF MOLECULAR STRUCTURE, 2024, vol. 1308, no., art. no. 137939. ISSN 0022-2860. Dostupné na:

<https://doi.org/10.1016/j.molstruc.2024.137939>, Registrované v: WOS

8. [1.1] KASIRAJAN, Kasinathan - KARUNAKARAN, Marimuthu - CHOI, Hong Kyoon. Synthesis of environmentally-friendly carbon quantum dots from orange juice for selective detection of FeSUP3+/SUP ions, antibacterial activity, and bio-imaging applications. In JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, 2024, vol. 12, no. 5, art. no. 113535. ISSN 2213-2929. Dostupné na: <https://doi.org/10.1016/j.jece.2024.113535>, Registrované v: WOS

9. [1.1] KHAJAVI, Fereshteh - ESKANDARI, Habibollah - POURBASHEER, Eslam. Photogeneration of reagent radicals for detection of ascorbic acid by using highly photoluminescent nitrogen-doped carbon quantum dots. In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, 2024, vol. 450, no., art. no. 115291. ISSN 1010-6030. Dostupné na: <https://doi.org/10.1016/j.jphotochem.2023.115291>, Registrované v: WOS

10. [1.1] LIU, Shanshan - XU, Yujia - WANG, Xuemin - ZHOU, Hao - ZHANG, Tao. Insight into the synthetic strategies of carbon dots and its Structure-Property interplay for Next-Generation technologies. In CHEMICAL ENGINEERING JOURNAL, 2024, vol. 496, no., art. no. 153914. ISSN 1385-8947. Dostupné na: <https://doi.org/10.1016/j.cej.2024.153914>, Registrované v: WOS

11. [1.1] NINAN, Gisa Grace - VARGHESE, Meera - DEVANARAYANAN, M. - BALACHANDRAN, Manoj. Controlled reaction time of TiO2 and cocktail co-sensitization for improved DSSC performance. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 2024, vol. 35, no. 27, art. no. 1800. ISSN 0957-4522. Dostupné na: <https://doi.org/10.1007/s10854-024-13589-y>, Registrované v: WOS

12. [1.1] PRIYADARSHINI, Eepsita - KUMAR, Rohit - BALAKRISHNAN, Kalpana - PANDIT, Soumya - KUMAR, Ranvijay - JHA, Niraj Kumar - GUPTA, Piyush Kumar. Biofilm Inhibition on Medical Devices and Implants Using Carbon Dots: An Updated Review. In ACS APPLIED BIO MATERIALS, 2024, vol. 7, no. 5, pp. 2604-2619. ISSN 2576-6422. Dostupné na: <https://doi.org/10.1021/acsabm.4c00024>, Registrované v: WOS

13. [1.1] SINGH, D. - SHAKTAWAT, S. - VERMA, R. - SINGH, J. Various Properties of Green Synthesized Carbon Quantum Dots. In GREEN CARBON QUANTUM DOTS: Environmental Applications. ISSN 1612-1317, 2024, p. 55-84. Dostupné na: https://doi.org/10.1007/978-981-97-6203-3_3, Registrované v: WOS

14. [1.1] SIVAGURUNATHAN, Periyasamy - SAHOO, Prakash C. - KUMAR, Manoj - GUPTA, Ravi Prakash - SRIVASTVA, Umish - BHATTACHARYYA, Debasis. Synergistic role of carbon quantum dots on biohydrogen production. In JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, 2024, vol. 12, no. 6, art. no. 114188. ISSN 2213-2929. Dostupné na: <https://doi.org/10.1016/j.jece.2024.114188>, Registrované v: WOS

15. [1.1] SONAM, Stanzin - PATEL, Parth - JAIN, Keerti. PAMAM dendrimer and carbon quantum dots complexes as theranostic nanocarrier: Synthesis, optimization and photophysical characterization. In OPTICS AND LASER TECHNOLOGY, 2024, vol. 175, no., art. no. 110761. ISSN 0030-3992. Dostupné na: <https://doi.org/10.1016/j.optlastec.2024.110761>, Registrované v: WOS

16. [1.1] TIAN, Meng - WANG, Dandan - LIU, Qiuyi - WANG, Luchun - TAO, Yongqing - WANG, Junji - ZOU, Yuemeng - YANG, Yulian - ZHOU, Quan - LI, Lingling - WANG, Mingyue - LI, Xiang - GAO, Die. Deep eutectic solvent assisted synthesis of N,Cl co-doped carbon dots using longan shell waste: Applications in antioxidant, anti-inflammatory and Fe2+ detection. In JOURNAL OF MOLECULAR LIQUIDS, 2024, vol. 397, no., art. no. 124131. ISSN 0167-7322.

Dostupné na: <https://doi.org/10.1016/j.molliq.2024.124131>, Registrované v: WOS

17. [1.1] WANG, Yuwei - LI, Ye - YANG, Guixiang - YANG, Xiaofeng - YAN, Chenglu - PENG, Huaqiao - WANG, Huiyong - DU, Juan - ZHENG, Baozhan - GUO, Yong. Photo-induced Ag modulating carbon dots: Greatly improved fluorescent properties and derived sensing application. In *CHINESE CHEMICAL LETTERS*, 2024, vol. 35, no. 1, art. no. 108277. ISSN 1001-8417. Dostupné na: <https://doi.org/10.1016/j.ccllet.2023.108277>, Registrované v: WOS

18. [1.1] XU, Yalan - LIANG, Lili - LISAK, Grzegorz. Blue-Emissive Antioxidant Carbon Dots Enhance Drought Resistance of Pea (*Pisum sativum* L.). In *ACS APPLIED MATERIALS & INTERFACES*, 2024, vol. 16, no. 30, pp. 39090-39103. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.4c07607>, Registrované v: WOS

19. [1.1] ZHANG, Shiwei - LI, Jiurong - GONG, Xiao. A Strategy for Rapid Synthesis of Carbon Nanodots with Reversible Photoluminescence Switching for Sensitive Dynamic Anti-Counterfeiting. In *ADVANCED OPTICAL MATERIALS*, 2024, vol. 12, no. 22. ISSN 2195-1071. Dostupné na: <https://doi.org/10.1002/adom.202400648>, Registrované v: WOS

20. [1.1] ZHAO, Dan - LIU, Huan - XU, Mengyu - YIN, Chengxin - XIAO, Xincan - DAI, Kang. Functional carbon dots-hydrogel complex for selective antibacterial and detection applications. In *SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY*, 2024, vol. 314, no., art. no. 124195. ISSN 1386-1425. Dostupné na: <https://doi.org/10.1016/j.saa.2024.124195>, Registrované v: WOS

21. [1.1] ZHAO, Yue - XIAO, Yujie - YANG, Xian - ZHANG, Xue. Epimedium brevicornu maxim.derived green carbon quantum dots as chemiluminescence probes for highly sensitive detection of Sulfacetamide and Sulfadimethoxine Sodium Salt. In *MICROCHEMICAL JOURNAL*, 2024, vol. 203, no., art. no. 110893. ISSN 0026-265X. Dostupné na: <https://doi.org/10.1016/j.microc.2024.110893>, Registrované v: WOS

22. [1.2] ELUGOKE, Saheed E. - UWAYA, Gloria E. - QUADRI, Taiwo W. - EBENSO, Eno E. Carbon Quantum Dots: Basics, Properties, and Fundamentals. In *ACS Symposium Series*, 2024-04-17, 1465, pp. 3-42. ISSN 00976156. Dostupné na: <https://doi.org/10.1021/bk-2024-1465.ch001>, Registrované v: SCOPUS

23. [1.2] SINGH, Diksha - SHAKTAWAT, Sarita - VERMA, Ranjana - SINGH, Jay. Various Properties of Green Synthesized Carbon Quantum Dots. In *Engineering Materials*, 2024-01-01, part F3729, pp. 55-84. ISSN 16121317. Dostupné na: https://doi.org/10.1007/978-981-97-6203-3_3, Registrované v: SCOPUS

ADCA558 MARKOVIĆ, Zoran M.** - KOVÁČOVÁ, Mária - JEREMIĆ, Sanja R. - NAGY, Štefan - MILIVOJEVIĆ, Dušan D. - KUBAT, Pavel - KLEINOVÁ, Angela - BUDIMIR, Milica D. - MOJSIN, Marija M. - STEVANOVIĆ, Milena J. - HVIZDOŠOVÁ, Adriana, Annušová - ŠPITÁLSKY, Zdenko - TODOROVIĆ MARKOVIĆ, Biljana M.**. Highly efficient antibacterial polymer composites based on hydrophobic riboflavin carbon polymerized dots. In *Nanomaterials-Basel*, 2022, vol. 12, no. 22, art. no. 4070. (2021: 5.719 - IF, Q1 - JCR, 0.839 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 2079-4991. Dostupné na: <https://doi.org/10.3390/nano12224070>

Citácie:

1. [1.1] CHEN, Yunteng - HONG, Chunxian - XU, Qiang - ZHENG, Haihong - WANG, Chao - LU, Hongshun - ZHANG, Shuai - DU, Mingming - ZENG, Ganning. Visible Light Enhancement of Biocarbon Quantum-Dot-Decorated TiO₂ for Naphthalene Removal. In *MOLECULES*, 2024, vol. 29, no. 11, art. no. 2708. Dostupné na: <https://doi.org/10.3390/molecules29112708>, Registrované v: WOS

2. [1.1] HU, Xiaoyan - ZHANG, Yafei - LI, Hao - CAO, Jun - PAN, Jiaqi - LI, Chaorong - ZHENG, Yingying. pH response mechanism of bifunctional fluorescent carbon quantum dots and application in cancer detection and bioself-targeting imaging. In *JOURNAL OF MOLECULAR STRUCTURE*, 2024, vol. 1308, no., art. no. 137939. ISSN 0022-2860. Dostupné na: <https://doi.org/10.1016/j.molstruc.2024.137939>, Registrované v: WOS
3. [1.1] LI, Zhuquan - AI, Jingwen - WU, Dingsheng - YU, Yajing - XIE, Lixi - KE, Huizhen - WANG, Qingqing - ZHANG, Kai - LV, Pengfei - WEI, Qufu. Robust integration of light-driven carbon quantum dots with bacterial cellulose enables excellent mechanical and antibacterial biodegradable yarn. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, 2024, vol. 257, no., art. no. 128741. ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2023.128741>, Registrované v: WOS
4. [1.1] MANIKANDAN, Velu - ELANGO, Duraisamy - AL-ANSARI, Mysoon M. - SUBASH, Velu - MYTHILI, R. - KIM, Woong - JAYANTHI, Palaniyappan - SONG, Kwang Soup. Enhanced inactivation of *Staphylococcus aureus* and *Escherichia coli* using conjugated polyindole polymer nanoparticles under visible light irradiation. In *POLYMERS FOR ADVANCED TECHNOLOGIES*, 2024, vol. 35, no. 4, art. no. e6367. ISSN 1042-7147. Dostupné na: <https://doi.org/10.1002/pat.6367>, Registrované v: WOS
5. [1.1] RAZAVI, Roghayieh - TAJIK, Hossein - MOLAEI, Rahim - MCCLEMENTS, David Julian - MORADI, Mehran. Janus nanoparticles synthesized from hydrophobic carbon dots and carboxymethyl cellulose: Novel antimicrobial additives for fresh food applications. In *FOOD BIOSCIENCE*, 2024, vol. 62, no., art. no. 105171. ISSN 2212-4292. Dostupné na: <https://doi.org/10.1016/j.fbio.2024.105171>, Registrované v: WOS
6. [1.1] WANG, Siqi - MCCOY, Colin P. - LI, Peifeng - LI, Yining - ZHAO, Yinghan - ANDREWS, Gavin P. - WYLIE, Matthew P. - GE, Yi. Carbon Dots in Photodynamic/Photothermal Antimicrobial Therapy. In *NANOMATERIALS*, 2024, vol. 14, no. 15, art. no. 1250. Dostupné na: <https://doi.org/10.3390/nano14151250>, Registrované v: WOS
7. [1.1] XU, Guomei - PAN, Pan - HU, Tao - CHEN, Zhiyuan - YING, Hanjie - CHENG, Yongfeng. Antibacterial and enhanced stability of carbon dot based on L-arginine modified by HPMC. In *FULLERENES NANOTUBES AND CARBON NANOSTRUCTURES*, 2024, vol. 32, no. 1, pp. 78-86. ISSN 1536-383X. Dostupné na: <https://doi.org/10.1080/1536383X.2023.2263107>, Registrované v: WOS
8. [1.1] ZHANG, Ruru - LI, Ya - LI, Feiyun - LIANG, Yaoting - TANG, Yanjun. Enhancing the quantum yield and electrochemical properties of carbon quantum dots via optimized hydrothermal treatment using cellulose nanocrystals as precursors. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, 2024, vol. 282, no., art. no. 137443. ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2024.137443>, Registrované v: WOS

ADCA559 MARTINEZ, G. - CHARBONNIER, Y. - APHECETCHE, L. - DELAGRANGE, H. - GUDIMA, K.K. - MATULEWICZ, L. - PLOSZAJCZAK, M. - SCHUTZ, Y. - TONEEV, V. - TURRISI, R. - APPENHEIMER, M. - METAG, V. - NOVOTNY, R. - STROHER, H. - WOLF, A.R. - WOLF, M. - WEISS, J. - AVERBECK, R. - HLAVÁČ, Stanislav - HOLZMANN, R. - LEFEVRE, F. - SIMON, R.S. - STRATMANN, R. - WISSMANN, F. - HOEFMAN, M. - VAN GOETHEM, M.J. - LOHNER, H. - OSTENDORF, R.W. - SIEMSEN, R.H. - VOGT, P. - WILSCHUT, H.W. - DIAZ, J. - MARIN, A. - KUGLER, A. - TLUSTY, P. - WAGNER, V. - DOPPENSCHMIDT, A. Deep-subthreshold eta and pi(0) production probing pion

dynamics in the reaction Ar+Caat 180A MeV. In Physical Review Letters, 1999, vol. 83, no. 8, p. 1538-1541. (1998: 6.017 - IF, karentované - CCC). (1999 - Current Contents, WOS, SCOPUS). ISSN 0031-9007.

Citácie:

1. [1.1] TIWARI, Shivanshi - KUMAR, Rajesh - KUMARI, Manisha - KUMAR, Arvind. *η meson in strange magnetized matter*. In EUROPEAN PHYSICAL JOURNAL PLUS, 2024, vol. 139, no. 4, art. no. 310. ISSN 2190-5444. Dostupné na: <https://doi.org/10.1140/epjp/s13360-024-05098-y>, Registrované v: WOS

ADCA560 MARTINOVIČ, Lubomír - GRANGÉ, Pierre. Higgs mechanism in a light front formulation. In Modern Physics Letters A, 2008, vol. 23, no. 6, p. 417-425. ISSN 0217-7323. Dostupné na: <https://doi.org/10.1142/S0217732308026510>

Citácie:

1. [1.1] POLYZOU, W. N. *Light-front puzzles*. In JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, 2024, vol. 57, no. 4, art. no. 045401. ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/ad19e9>, Registrované v: WOS

ADCA561 MARTINOVIČ, Lubomír. Solvable models in the conventional and light-front field theory: Recent progress. In Few-Body Systems, 2014, vol. 55, no. 5-7, p. 527-534. (2013: 1.508 - IF, Q2 - JCR, 0.798 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0177-7963. Dostupné na: <https://doi.org/10.1007/s00601-014-0896-1>

Citácie:

1. [1.1] CHEN, Qi - TU, Kaixun - WANG, Qing. *Hamiltonian formulation of the Rothe-Stamatescu model and field mixing*. In PHYSICAL REVIEW D, 2024, vol. 110, no. 3, art. no. 034510. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.034510>, Registrované v: WOS

ADCA562 MASAR, Milan - ALI, Hassan - GULER, Ali Can - URBANEK, Michal - URBANEK, Pavel - HANULIKOVA, Barbora - PISTEKOVA, Hana - HVIZDOŠOVÁ, Adriana, Annušová - MACHOVSKY, Michal** - KURITKA, Ivo. Multifunctional bandgap-reduced ZnO nanocrystals for photocatalysis, self-cleaning, and antibacterial glass surfaces. In Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, vol. 656, art. no. 130447. (2022: 5.2 - IF, Q2 - JCR, 0.792 - SJR, Q1 - SJR). ISSN 0927-7757. Dostupné na: <https://doi.org/10.1016/j.colsurfa.2022.130447>

Citácie:

1. [1.1] AZAB, A. A. - MAHDY, Manal A. - TURKY, G. - EL ZAWAWI, I. K. *Effects of heat treatment on the structural, dielectric and magnetic properties of ZnO@CoFe2O4 nanocomposites*. In CERAMICS INTERNATIONAL, 2024, vol. 50, no. 7, pp. 12270-12278. ISSN 0272-8842. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.01.131>, Registrované v: WOS

2. [1.1] BI, Xiang - DU, Gao-Hui - WANG, Li-Zhong - ZHAO, Dong - XU, Hao-Yu - QIU, Yue - DAI, Le. *Preparation of gray ZnO_{1-x} photocatalyst containing oxygen vacancies for the highly efficient removal of nitric oxide and acetaminophen*. In JOURNAL OF NANOPARTICLE RESEARCH, 2024, vol. 26, no. 10, art. no. 237. ISSN 1388-0764. Dostupné na: <https://doi.org/10.1007/s11051-024-06147-4>, Registrované v: WOS

3. [1.1] CIOBANU, Vladimir - GALATONOVA, Tatiana - BRANISTE, Tudor - URBANEK, Pavel - LEHMANN, Sebastian - HANULIKOVA, Barbora - NIELSCH, Kornelius - KURITKA, Ivo - SEDLARIK, Vladimir - TIGINYANU, Ion. *Aero-TiO₂ three-dimensional nanoarchitecture for photocatalytic degradation of tetracycline*. In SCIENTIFIC REPORTS, 2024, vol. 14, no. 1, art. no. 31215. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-82574-6>,

Registrované v: WOS

4. [1.1] EL-SAADONY, Mohamed T. - FANG, Guihong - YAN, Si - ALKAFAS, Samar Sami - EL NASHARTY, Mahmoud A. - KHEDR, Sohila A. - HUSSEIN, Aya Misbah - GHOSH, Soumya - DLADLA, Mthokozisi - ELKAFAS, Sara Samy - IBRAHIM, Essam H. - SALEM, Heba Mohammed - MOSA, Walid F. A. - AHMED, Ahmed Ezzat - MOHAMMED, Dina Mostafa - KORMA, Sameh A. - EL-TARABILY, Marawan K. - SAAD, Ahmed M. - EL-TARABILY, Khaled A. - ABUQAMAR, Synan F. Green Synthesis of Zinc Oxide Nanoparticles: Preparation, Characterization, and Biomedical- A Review. In INTERNATIONAL JOURNAL OF NANOMEDICINE, 2024, vol. 19, no., pp. 12889-12937. ISSN 1178-2013. Dostupné na: <https://doi.org/10.2147/IJN.S487188>, Registrované v: WOS

5. [1.1] LUO, Luteng - CUI, Weiting - XUE, Hang - KE, Sunzai - YANG, Xuhui - YANG, Min-Quan - QIAN, Qingrong. Activating black phosphorene's inert basal plane via nonprecious metal-nonmetal co-doping for visible-light-driven photocatalytic H₂ evolution. In NEW JOURNAL OF CHEMISTRY, 2024, vol. 48, no. 3, pp. 1141-1151. ISSN 1144-0546. Dostupné na: <https://doi.org/10.1039/d3nj04778d>, Registrované v: WOS

6. [1.1] PHAN, Trang Thuy Thi - TRAN, Vinh Cao - PHAM, Anh Tuan Thanh. Limitation of micro-X-ray fluorescence for chemical quantification in nanocrystalline films. In SURFACES AND INTERFACES, 2024, vol. 48, no., art. no. 104245. ISSN 2468-0230. Dostupné na: <https://doi.org/10.1016/j.surfin.2024.104245>, Registrované v: WOS

7. [1.1] SUN, Yu - XIA, Pan - SHENG, Pinyuan - WANG, Chao - YOU, Jing - DENG, Qianyin - HE, Qiang - SIREN, Ignasi - YE, Zhihong. Rational design of an air-breathing gas-diffusion electrode with oxygen vacancy-rich ZnO for robust and durable H₂O₂ electrosynthesis. In CHEMICAL ENGINEERING JOURNAL, 2024, vol. 500, no., art. no. 157563. ISSN 1385-8947. Dostupné na: <https://doi.org/10.1016/j.cej.2024.157563>, Registrované v: WOS

8. [1.1] YOUSSEF, Fady S. - ISMAIL, Sameh H. - FOUAD, Omar A. - MOHAMED, Gehad G. Green Synthesis and Biomedical Applications of Zinc Oxide Nanoparticles. In EGYPTIAN JOURNAL OF VETERINARY SCIENCE, 2024, vol. 55, no. 1, pp. 287-311. ISSN 1110-0222. Dostupné na: <https://doi.org/10.21608/EJVS.2023.225862.1576>, Registrované v: WOS

ADCA563 MAŤKO, Igor - ILLEKOVÁ, Emília - ŠVEC, Peter - DUHAJ, Pavol. Crystallization characteristics in the Fe-Si-B glassy ribbon system. In Materials Science and Engineering A, 1997, vol. 225, no. 1-2, p. 145-152. (1996: 0.852 - IF, karentované - CCC). (1997 - Current Contents, WOS, SCOPUS). ISSN 0921-5093. Dostupné na: [https://doi.org/10.1016/s0921-5093\(96\)10567-0](https://doi.org/10.1016/s0921-5093(96)10567-0)

Citácie:

1. [1.1] NEAMTU, B. V. - NASUI, M. - CUPA, G. - WARE, E. - POPA, F. - MARINCA, T. F. - CHICINAS, I. Effects of adding carbonyl Fe or Mn-Zn ferrite powders to fibre-based soft magnetic composites prepared via hybrid cold sintering/spark plasma sintering. In JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, 2024, vol. 28, no., pp. 2969-2979. ISSN 2238-7854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2023.12.231>, Registrované v: WOS

ADCA564 MAŤKO, Igor** - ŠAUŠA, Ondrej - ČECHOVÁ, Katarína - JESENÁK, Karol. Study of water in Ca-montmorillonite by thermal analysis and positron annihilation lifetime spectroscopy. In Journal of Thermal Analysis and Calorimetry, 2018, vol. 133, no. 1, p. 247 -254. (2017: 2.209 - IF, Q2 - JCR, 0.587 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1388-6150. Dostupné na:

<https://doi.org/10.1007/s10973-018-7145-7>

Citácie:

1. [1.1] ZENG, Minfeng - ZHANG, Taojun - CHEN, Jinyang - REN, Xiaorong - YANG, Zhen - ZHANG, Peng - YU, Runsheng - WANG, Baoyi - CAO, Xingzhong. Positron annihilation spectroscopic investigation of pillared clay-based catalytic hybrid nanocomposites. In *RADIATION PHYSICS AND CHEMISTRY*, 2024, vol. 220, no., art. no. 111722. ISSN 0969-806X. Dostupné na:

<https://doi.org/10.1016/j.radphyschem.2024.111722>, Registrované v: WOS

ADCA565

MAŤKO, Igor - ILLEKOVÁ, Emília - ŠVEC, Peter - ŠVEC, Peter Jr. - JANIČKOVIČ, Dušan - VODÁREK, V. Microstructural study of the crystallization of amorphous Fe-Sn-B ribbons. In *Journal of Alloys and Compounds*, 2014, vol. 615, p. S462-S466. (2013: 2.726 - IF, Q1 - JCR, 1.064 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2013.12.026>

Citácie:

1. [1.1] GREY, Daniel G. - CESNEK, Martin - BUJDOS, Marek - MIGLIERINI, Marcel B. Effect of Cobalt on the Microstructure of Fe-B-Sn Amorphous Metallic Alloys. In *METALS*, 2024, vol. 14, no. 6, art. no. 712. Dostupné na:

<https://doi.org/10.3390/met14060712>, Registrované v: WOS

ADCA566

MEŠKO, M. - VRETENÁR, Viliam - KOTRUSZ, P. - HULMAN, Martin - ŠOLTÝS, Ján - SKÁKALOVÁ, V. Carbon nanowalls synthesis by means of atmospheric dcPECVD method. In *Physica Status Solidi B*, 2012, vol. 249, no. 12, p. 2625-2628. (2011: 1.316 - IF, Q3 - JCR, 0.931 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0370-1972. Dostupné na: <https://doi.org/10.1002/pssb.201200144>

Citácie:

1. [1.1] MINH, Ngo Quang - VAN NONG, Ngo - ODA, Osamu - ISHIKAWA, Kenji - HORI, Masaru. Low-temperature growth at 225 °C and characterization of carbon nanowalls synthesized by radical injection plasma-enhanced chemical vapor deposition. In *VACUUM*, 2024, vol. 224, no., art. no. 113180. ISSN 0042-207X. Dostupné na: <https://doi.org/10.1016/j.vacuum.2024.113180>, Registrované v: WOS

2. [1.1] OU, Haoxiong - YAN, Xincheng - WANG, Chao - DIAO, Dongfeng. Chemical vapor deposition and applications of vertical graphene: Progress and prospects. In *CHINESE SCIENCE BULLETIN-CHINESE*, 2024, vol. 69, no. 32, pp. 4748-4762. ISSN 0023-074X. Dostupné na: <https://doi.org/10.1360/TB-2024-0365>, Registrované v: WOS

ADCA567

MIČKY, Simon - BODÍK, Michal - MIČETIĆ, Maja - FETZER, Florian - STRIENZ, Markus - HELD, Vladimír - JERGEL, Matej - SCHNEPF, Andreas - SCHREIBER, Frank - ŠIFFALOVÍČ, Peter**. Multilayer Langmuir Film of Monodisperse Au Nanoclusters: Unusual Growth via Bilayers. In *Langmuir*, 2022, vol. 38, no. 48, p. 14850-14856. (2021: 4.331 - IF, Q2 - JCR, 0.884 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.2c02514>

Citácie:

1. [1.1] BASSANI, Carlos L. - VAN ANDERS, Greg - BANIN, Uri - BARANOV, Dmitry - CHEN, Qian - DIJKSTRA, Marjolein - DIMITRIYEV, Michael S. - EFRATI, Efi - FARAUDO, Jordi - GANG, Oleg - GASTON, Nicola - GOLESTANIAN, Ramin - GUERRERO-GARCIA, G. Ivan - GRUENWALD, Michael - HAJI-AKBARI, Amir - IBANEZ, Maria - KARG, Matthias - KRAUS, Tobias - LEE, Byeongdu - VAN LEHN, Reid C. - MACFARLANE, Robert J. - MOGNETTI, Bortolo M. - NIKOUBASHMAN, Arash - OSAT, Saeed - PREZHDO,

Oleg V. - ROTSKOFF, Grant M. - SAIZ, Leonor - SHI, An-Chang - SKRABALAK, Sara - SMALYUKH, Ivan I. - TAGLIAZUCCHI, Mario - TALAPIN, Dmitri V. - TKACHENKO, Alexei V. - TRETIK, Sergei - VAKNIN, David - WIDMER-COOPER, Asaph - WONG, Gerard C. L. - YE, Xingchen - ZHOU, Shan - RABANI, Eran - ENGEL, Michael - TRAVESSET, Alex. Nanocrystal Assemblies: Current Advances and Open Problems. In ACS NANO, 2024, vol. 18, no. 23, pp. 14791-14840. ISSN 1936-0851. Dostupné na:

<https://doi.org/10.1021/acsnano.3c10201>, Registrované v: WOS

2. [1.1] CONG, Yujie - LIU, Jiaren - ZHANG, Jingkai - WANG, Jiaxi - WANG, Xiaoyu - LI, Lidong. Photofunctional Gold Nanocluster Composites for Bioapplications. In ACS APPLIED BIO MATERIALS, 2024, vol. 7, no. 5, pp. 2695-2703. ISSN 2576-6422. Dostupné na:

<https://doi.org/10.1021/acsnano.3c10201>, Registrované v: WOS

ADCA568

MIGLIERINI, Marcel B.** - DEKAN, Július - CESNEK, Martin - GEJDOŠ JANOTOVÁ, Irena - ŠVEC, Peter Jr. - BUJDOŠ, Marek - KOHOUT, Jaroslav. Hyperfine interactions in Fe/Co-B-Sn amorphous alloys by Mössbauer spectrometry. In Journal of Magnetism and Magnetic Materials, 2020, vol. 500, art. no. 166417. (2019: 2.717 - IF, Q2 - JCR, 0.658 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2020.166417>

Citácie:

1. [1.1] EL BOUBEKRI, A. - TILLOU, S. - SAJIEDDINE, M. - SAHLAOU, M. - LASSRI, H. - RAZOUK, A. Mossbauer analysis of (FeNiCrSiB) amorphous alloy ribbons. In PHYSICA B-CONDENSED MATTER, 2024, vol. 691, no., art. no. 416374. ISSN 0921-4526. Dostupné na:

<https://doi.org/10.1016/j.physb.2024.416374>, Registrované v: WOS

ADCA569

MIHÁLIKOVÁ, Ivana - FRIÁK, Martin - PIVOLUSKA, Matej - PLESCH, Martin** - SAIP, Martin - ŠOB, Mojmir. Best-practice aspects of quantum-computer calculations: A case study of the hydrogen molecule. In Molecules, 2022, vol. 27, no. 3, art. no. 597. (2021: 4.927 - IF, Q2 - JCR, 0.705 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules27030597>

Citácie:

1. [1.1] PERIYASAMY, Maniraman - HOELLE, Marc - WIEDMANN, Marco - SCHERER, Daniel D. - PLINGE, Axel - MUTSCHLER, Christopher. BCQQ: Batch-Constraint Quantum Q-Learning with Cyclic Data Re-uploading. In 2024 INTERNATIONAL JOINT CONFERENCE ON NEURAL NETWORKS, IJCNN 2024 : International Joint Conference on Neural Networks (IJCNN), 2024, vol., no. ISSN 2161-4393. Dostupné na:

<https://doi.org/10.1109/IJCNN60899.2024.10651268>, Registrované v: WOS

2. [1.1] PRASAD, Viki Kumar - CHENG, Freeman - FEKL, Ulrich - JACOBSEN, Hans-Arno. Applications of noisy quantum computing and quantum error mitigation to "adamantaneland": a benchmarking study for quantum chemistry. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS, 2024, vol. 26, no. 5, pp. 4071-4082. ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/d3cp03523a>, Registrované v: WOS

3. [1.1] SANTOS, Victor Oliveira - MARINHO, Felipe Pinto - ROCHA, Paulo Alexandre Costa - THE, Jesse Van Griensven - GHARABAGHI, Bahram. Application of Quantum Neural Network for Solar Irradiance Forecasting: A Case Study Using the Folsom Dataset, California. In ENERGIES, 2024, vol. 17, no. 14, art. no. 3580. Dostupné na: <https://doi.org/10.3390/en17143580>, Registrované v: WOS

- ADCA570 MIHÁLIKOVÁ, Ivana - PIVOLUSKA, Matej** - PLESCH, Martin - FRIÁK, Martin - NAGAJ, Daniel - ŠOB, Mojmir. The cost of improving the precision of the variational quantum eigensolver for quantum chemistry. In *Nanomaterials-Basel*, 2022, vol. 12, no. 2, art. no. 243. (2021: 5.719 - IF, Q1 - JCR, 0.839 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 2079-4991. Dostupné na: <https://doi.org/10.3390/nano12020243>
- Citácie:
- [1.1] LI, Weitang - YIN, Zhi - LI, Xiaoran - MA, Dongqiang - YI, Shuang - ZHANG, Zhenxing - ZOU, Chenji - BU, Kunliang - DAI, Maochun - YUE, Jie - CHEN, Yuzong - ZHANG, Xiaojin - ZHANG, Shengyu. A hybrid quantum computing pipeline for real world drug discovery. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 16942. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-67897-8>, Registrované v: WOS
 - [1.1] PEI, Zongrui - GONG, Yilun - LIU, Xianglin - YIN, Junqi. Designing complex concentrated alloys with quantum machine learning and language modeling. In *MATTER*, 2024, vol. 7, no. 10. ISSN 2590-2393. Dostupné na: <https://doi.org/10.1016/j.matt.2024.05.035>, Registrované v: WOS
 - [1.1] SIHARE, Shyam R. Multi-Party Quantum Key Distribution Using Variational Quantum Eigensolvers. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 1. Dostupné na: <https://doi.org/10.1002/qute.202300270>, Registrované v: WOS
 - [1.1] SUN, Jiace - CHENG, Lixue - LI, Weitang. Toward Chemical Accuracy with Shallow Quantum Circuits: A Clifford-Based Hamiltonian Engineering Approach. In *JOURNAL OF CHEMICAL THEORY AND COMPUTATION*, 2024, vol. 20, no. 2, pp. 695-707. ISSN 1549-9618. Dostupné na: <https://doi.org/10.1021/acs.jctc.3c00886>, Registrované v: WOS
 - [1.2] JIANG, Weiwen - LIN, Youzuo. QuGeo: An End-to-end Quantum Learning Framework for Geoscience A Case Study on Full-Waveform Inversion. In *Proceedings Design Automation Conference, 2024-11-07*, pp. ISBN [9798400706011]. ISSN 0738100X. Dostupné na: <https://doi.org/10.1145/3649329.3657363>, Registrované v: SCOPUS
- ADCA571 MIHALKOVIČ, Marek - LEHYANI, A.I. - COCKAYNE, E. - HENLEY, C.L. - WIDOM, M. Total-energy-based prediction of a quasicrystal structure. In *Physical Review B*, 2002, vol. 65, no. 10, art. no. 104205. (2001: 3.070 - IF, karentované - CCC). (2002 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.65.104205>
- Citácie:
- [1.1] CHIZHIKOV, Viacheslav A. Inflation rules for a chiral pentagonal quasiperiodic tiling of stars and hexes. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 17, art. no. 174104. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.174104>, Registrované v: WOS
- ADCA572 MIHALKOVIČ, Marek - ZHU, W.J. - HENLEY, C.L. - OXBORROW, M. Icosahedral quasicrystal decoration models. 1. Geometrical principles. In *Physical Review B*, 1996, vol. 53, no. 14, p. 9002-9020. (1995: 2.834 - IF, karentované - CCC). (1996 - Current Contents). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1007/s11224-019-01413-x>
- Citácie:
- [1.1] BUGANSKI, Ireneusz - STRZALKA, Radoslaw - WOLNY, Janusz. The physical space model of the Tsai-type quasicrystal. In *ACTA CRYSTALLOGRAPHICA SECTION B-STRUCTURAL SCIENCE CRYSTAL ENGINEERING AND MATERIALS*, 2024, vol. 80, no., pp. 84-93. Dostupné na: <https://doi.org/10.1107/S2052520624000763>, Registrované v: WOS

2. [1.1] MIAO, Haohao - XIA, Xuehuan - FU, Yonghao - YAN, Jing - LI, Lu - CAI, Hongzhong - WANG, Xiao - WU, Chengling - ZHAN, Zhaolin - WANG, Xian - YUAN, Zhentao. Construction and Experimental Validation of Embedded Potential Functions for Ta-Re Alloys. In *MOLECULES*, 2024, vol. 29, no. 24, art. no. 5963. Dostupné na: <https://doi.org/10.3390/molecules29245963>, Registrované v: WOS

ADCA573 MIHALKOVIČ, Marek - HENLEY, C.L. - WIDOM, M. Combined energy-diffraction data refinement of decagonal AlNiCo. In *Journal of Non-Crystalline Solids*, 2004, vol. 334, p. 177-183. Dostupné na: <https://doi.org/10.1016/j.jnoncrysol.2003.11.034>

Citácie:

1. [1.1] CHIZHIKOV, Viacheslav A. Inflation rules for a chiral pentagonal quasiperiodic tiling of stars and hexes. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 17, art. no. 174104. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.110.174104>, Registrované v: WOS

ADCA574 MIHALKOVIČ, Marek - WIDOM, M. Ab initio calculations of cohesive energies of Fe-based glass-forming alloys. In *Physical Review B*, 2004, vol. 70, no. 14, art. no. 144107. (2003: 2.962 - IF, karentované - CCC). (2004 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1088/0957-4484/26/44/444002>

Citácie:

1. [1.1] EL GARAH, Mohamed - SOUBANE, Driss - SANCHETTE, Frederic. Review on mechanical and functional properties of refractory high-entropy alloy films by magnetron sputtering. In *EMERGENT MATERIALS*, 2024, vol. 7, no. 1, pp. 77-101. ISSN 2522-5731. Dostupné na: <https://doi.org/10.1007/s42247-023-00607-8>, Registrované v: WOS

2. [1.1] SANDERS, Kyana M. - GRESSEL, Danica G. - FREDRICKSON, Rie T. - FREDRICKSON, Daniel C. Toward Predicting the Assembly of Modular Intermetallics from Chemical Pressure Analysis: The Interface Nucleus Approach. In *INORGANIC CHEMISTRY*, 2024, vol. 63, no. 15, pp. 6626-6637. ISSN 0020-1669. Dostupné na: <https://doi.org/10.1021/acs.inorgchem.3c04390>, Registrované v: WOS

ADCA575 MIHALKOVIČ, Marek - KRAJČÍ, Marián - WIDOM, M. Prediction of stable insulating intermetallic compounds. In *Physical Review B*, 2013, vol. 87, no. 10, art. no. 100201. (2012: 3.767 - IF, Q1 - JCR, 1.779 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.87.100201>

Citácie:

1. [1.1] TIAN, Yuan - GUO, Junhong - CHEN, Weiqiu - WANG, Qian - WANG, Jifei - LIU, Guanting. Molecular dynamics simulation of mechanical properties of decagonal quasicrystal approximate phase Al₂Fe. In *MATERIALS TODAY COMMUNICATIONS*, 2024, vol. 39, no., art. no. 108693. Dostupné na:

<https://doi.org/10.1016/j.mtcomm.2024.108693>, Registrované v: WOS

ADCA576 MIHALKOVIČ, Marek - WIDOM, M. Structure and stability of Al₂Fe and Al₅Fe₂: First-principles total energy and phonon calculations. In *Physical Review B*, 2012, vol. 85, no. 1, art. no. 014113. (2011: 3.691 - IF, Q1 - JCR, 3.326 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.85.014113>

Citácie:

1. [1.1] CHEN, Zhenghao - HORIE, Tsukasa - WANG, Xiaofeng - INUI, Haruyuki. Operative slip systems and their critical resolved shear stresses in η-Fe₂Al₅ investigated by micropillar compression at room temperature. In

INTERNATIONAL JOURNAL OF PLASTICITY, 2024, vol. 180, no., art. no. 104057. ISSN 0749-6419. Dostupné na: <https://doi.org/10.1016/j.ijplas.2024.104057>, Registrované v: WOS

2. [1.1] LIU, Yibo - FAN, Changzeng - WEN, Bin - XU, Zhefeng - FU, Ruidong - ZHANG, Lifeng. Orientation Relationship of Intergrowth Al₂Fe and Al₅Fe₂ Intermetallics Determined by Single-Crystal X-ray Diffraction. In METALS, 2024, vol. 14, no. 3, art. no. 337. Dostupné na: <https://doi.org/10.3390/met14030337>, Registrované v: WOS

3. [1.1] SANDERS, Kyana M. - GRESSEL, Danica G. - FREDRICKSON, Rie T. - FREDRICKSON, Daniel C. Toward Predicting the Assembly of Modular Intermetallics from Chemical Pressure Analysis: The Interface Nucleus Approach. In INORGANIC CHEMISTRY, 2024, vol. 63, no. 15, pp. 6626-6637. ISSN 0020-1669. Dostupné na: <https://doi.org/10.1021/acs.inorgchem.3c04390>, Registrované v: WOS

4. [1.1] TIAN, Yuan - GUO, Junhong - CHEN, Weiqiu - WANG, Qian - WANG, Jifei - LIU, Guanting. Molecular dynamics simulation of mechanical properties of decagonal quasicrystal approximate phase Al₂Fe. In MATERIALS TODAY COMMUNICATIONS, 2024, vol. 39, no., art. no. 108693. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2024.108693>, Registrované v: WOS

5. [1.2] CHI, Luxin - HUANG, Yan - CHEN, Juncheng - LIU, Jiale - HUANG, Fuxiang - RAN, Yang. Calculation and experimental analysis of properties of IMCs in electromagnetic pulse welding with aluminum to steel. In Hanjie Xuebao Transactions of the China Welding Institution, 2024-10-01, 45, 10, pp. 79-87. ISSN 0253360X. Dostupné na: <https://doi.org/10.12073/j.hjxb.20231219001>, Registrované v: SCOPUS

ADCA577

MIHALKOVIČ, Marek - HENLEY, C.L. Empirical oscillating potentials for alloys from ab initio fits and the prediction of quasicrystal-related structures in the Al-Cu-Sc system. In Physical Review B, 2012, vol. 85, no. 9, art. no. 092102. (2011: 3.691 - IF, Q1 - JCR, 3.326 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.85.092102>

Citácie:

1. [1.1] BASSANI, Carlos L. - VAN ANDERS, Greg - BANIN, Uri - BARANOV, Dmitry - CHEN, Qian - DIJKSTRA, Marjolein - DIMITRIYEV, Michael S. - EFRATI, Efi - FARAUDO, Jordi - GANG, Oleg - GASTON, Nicola - GOLESTANIAN, Ramin - GUERRERO-GARCIA, G. Ivan - GRUENWALD, Michael - HAJI-AKBARI, Amir - IBANEZ, Maria - KARG, Matthias - KRAUS, Tobias - LEE, Byeongdu - VAN LEHN, Reid C. - MACFARLANE, Robert J. - MOGNETTI, Bortolo M. - NIKOUBASHMAN, Arash - OSAT, Saeed - PREZHDO, Oleg V. - ROTSKOFF, Grant M. - SAIZ, Leonor - SHI, An-Chang - SKRABALAK, Sara - SMALYUKH, Ivan I. - TAGLIAZUCCHI, Mario - TALAPIN, Dmitri V. - TKACHENKO, Alexei V. - TRETIK, Sergei - VAKNIN, David - WIDMER-COOPER, Asaph - WONG, Gerard C. L. - YE, Xingchen - ZHOU, Shan - RABANI, Eran - ENGEL, Michael - TRAVESSET, Alex. Nanocrystal Assemblies: Current Advances and Open Problems. In ACS NANO, 2024, vol. 18, no. 23, pp. 14791-14840. ISSN 1936-0851. Dostupné na: <https://doi.org/10.1021/acsnano.3c10201>, Registrované v: WOS

2. [1.1] MIAO, Haohao - XIA, Xuehuan - FU, Yonghao - YAN, Jing - LI, Lu - CAI, Hongzhong - WANG, Xiao - WU, Chengling - ZHAN, Zhaolin - WANG, Xian - YUAN, Zhentao. Construction and Experimental Validation of Embedded Potential Functions for Ta-Re Alloys. In MOLECULES, 2024, vol. 29, no. 24, art. no. 5963. Dostupné na: <https://doi.org/10.3390/molecules29245963>, Registrované

v: WOS

3. [1.1] NICHOLAS, Thomas C. - STONES, Adam Edward - PATEL, Adam - MICHEL, F. Marc - REEDER, Richard J. - AARTS, Dirk G. A. L. - DERINGER, Volker L. - GOODWIN, Andrew L. Geometrically frustrated interactions drive structural complexity in amorphous calcium carbonate. In *NATURE CHEMISTRY*, 2024, vol. 16, no. 1. ISSN 1755-4330. Dostupné na: <https://doi.org/10.1038/s41557-023-01339-2>, Registrované v: WOS

ADCA578 MIHALKOVIČ, Marek - WIDOM, M. - HENLEY, C.L. Cell-constrained melt-quench simulation of d-AlCoNi: Ni-rich versus Co-rich structures. In *Philosophical Magazine*, 2011, vol. 91, no. 19-21, p. 2557-2566. (2010: 1.304 - IF, Q1 - JCR, 1.031 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1478-6435. Dostupné na: <https://doi.org/10.1080/14786435.2010.515264>

Citácie:

1. [1.1] STELLHORN, J. R. - MEEKEL, E. G. - MINELLI, A. Unravelling Disorder in Aperiodic Crystals Diffuse Scattering and Atomic Resolution Holography. In *ISRAEL JOURNAL OF CHEMISTRY*, 2024, vol. 64, no. 10-11. ISSN 0021-2148. Dostupné na: <https://doi.org/10.1002/ijch.202300154>, Registrované v: WOS

ADCA579 MIKULA, Marian** - UZON, Stela - HUDEC, Tomáš - GRANČIČ, Branislav - TRUCHLÝ, Martin - ROCH, Tomáš - ŠVEC, Peter Jr. - SATRAPINSKY, Leonid - ČAPLOVIČOVÁ, Mária - GRECZYNSKI, Grzegorz - PETROV, Ivan - ODÉN, Magnus - KÚŠ, Peter - SANGIOVANNI, Davide G. Thermally induced structural evolution and age-hardening of polycrystalline V_{1-x}MoxN (x approximate to 0.4) thin films. In *Surface & Coatings Technology*, 2021, vol. 405, no. 12, art. no. 126723. (2020: 4.158 - IF, Q1 - JCR, 0.904 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0257-8972. Dostupné na: <https://doi.org/10.1016/j.surfcoat.2020.126723>

Citácie:

1. [1.1] MEI, H.J. - LIN, C.H. - LI, Y.H. - SHEN, Y.Q. - LI, Q.G. - WANG, R. - ZENG, W.J. - MEI, W.B. - GONG, W.P. Effect of V/Mo Atomic Ratio on the Microstructure and Mechanical Properties of MoVCuN Coatings. In *MATERIALS*. JAN 2024, vol. 17, no. 1. Dostupné na: <https://doi.org/10.3390/ma17010229>, Registrované v: WOS

2. [1.1] ZHANG, X.D. - CHEN, L. - WANG, G.Y. - HU, C. - DU, J.W. Influence of CrAlN layers on the microstructure, thermal stability, oxidation and corrosion resistance of AlN/CrAlN multilayers. In *MATERIALS CHARACTERIZATION*. ISSN 1044-5803, AUG 2024, vol. 214. Dostupné na: <https://doi.org/10.1016/j.matchar.2024.114051>, Registrované v: WOS

ADCA580 MIKULA, Marian** - GRANČIČ, B. - ŠVEC, Peter Jr. - ROCH, T. - TRUCHLÝ, M. - KOHULÁK, O. - SATRAPINSKY, L. - FIANTOK, T. - IZAIL, V. - HARŠÁNI, M. - OROVČÍK, Ľubomír - KÚŠ, P. Thermally-induced structure evolution in ternary Ti_{1-x}Y_xB₂+Δ films. In *Scripta Materialia*, 2019, vol. 164, p. 91-95. (2018: 4.539 - IF, Q1 - JCR, 2.185 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1359-6462. Dostupné na: <https://doi.org/10.1016/j.scriptamat.2019.01.042>

Citácie:

1. [1.1] KASHANI, A.H.N. - LELLIG, S. - HANS, M. - LÖFLER, L. - MRÁZ, S. - SCHWEIZER, P. - MÜLLER, A. - PRIMETZHOFFER, D. - MICHLER, J. - SCHNEIDER, J.M. Temporally-resolved decomposition of Ti_{0.12}Al_{0.21}B_{0.67} thin films at 1000°C. In *SURFACE & COATINGS TECHNOLOGY*. ISSN 0257-8972, JUL 15 2024, vol. 487. Dostupné na: <https://doi.org/10.1016/j.surfcoat.2024.131026>, Registrované v: WOS

- ADCA581 MILANI, Sula** - ANGEL, Ross J. - SCANDOLO, Lorenzo - MAZZUCHELLI, Mattia L. - BALLARAN, Tiziana Boffa - KLEMME, Stephan - DOMENEGHETTI, Maria C. - MILETICH, Ronald - SCHEIDL, Katharina S. - DERZSI, Mariana - TOKÁR, Kamil - PRENCIPE, Mauro - ALVARO, Matteo - NESTOLA, Fabrizio. Thermo-elastic behavior of grossular garnet at high pressures and temperatures. In *American Mineralogist*, 2017, vol. 102, no. 4, p. 851-859. (2016: 2.021 - IF, Q2 - JCR, 0.962 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0003-004X. Dostupné na: <https://doi.org/10.2138/am-2017-5855>
- Citácie:
- [1.1] GIOVANINI, Emanuel - BEFUS, Kenneth S. - OTAMENDI, Juan E. - CRISTOFOLINI, Eber - GUERREIRO, Tomas - CISNEROS, Miguel. Elastic thermobarometry on metapelites across the crustal section of the Famatinian Arc, Argentina. In *CONTRIBUTIONS TO MINERALOGY AND PETROLOGY*, 2024, vol. 179, no. 4, art. no. 35. ISSN 0010-7999. Dostupné na: <https://doi.org/10.1007/s00410-024-02115-2>, Registrované v: WOS
 - [1.1] NUNEZ-VALDEZ, Maribel - SATTA, Niccolo - SPEZIALE, Sergio. Effects of Fe-Ca-Mg substitutions on the equation-of-state of pyrope-rich garnet from ab initio modeling and experiments: Insights and implications for the upper mantle. In *PHYSICS OF THE EARTH AND PLANETARY INTERIORS*, 2024, vol. 350, no., art. no. 107171. ISSN 0031-9201. Dostupné na: <https://doi.org/10.1016/j.pepi.2024.107171>, Registrované v: WOS
 - [1.1] ZHU, Xi - CHEN, Guangchen - YE, Yu - WANG, Zhengrong - DU, Wei - WANG, Qingbo - WANG, Sha - HU, Yancheng - MIAO, Yunfan - WU, Zhen - LIU, Dan. Composition effects on equilibrium oxygen isotope fractionation factors between garnets and quartz/calcite/olivine: Implication from vibration frequencies of garnets at high temperatures and high pressures. In *CHEMICAL GEOLOGY*, 2024, vol. 663, no., art. no. 122261. ISSN 0009-2541. Dostupné na: <https://doi.org/10.1016/j.chemgeo.2024.122261>, Registrované v: WOS
- ADCA582 MILIAIEVA, Daria** - DJOUMESSI, Aurelien Sokeng - ČERMÁK, Jan - KOLÁŘOVÁ, Kateřina - SCHAAL, Maximilian - OTTO, Felix - SHAGIEVA, Ekaterina - ROMANYUK, Olexandr - PANGRÁC, Jiří - KULIČEK, Jaroslav - NÁDAŽDY, Vojtech - STEHLÍK, Štěpán - KROMKA, Alexander - HOPPE, Harald - REZEK, Bohuslav. Absolute energy levels in nanodiamonds of different origins and surface chemistries. In *Nanoscale Advances*, 2023, vol. 5, no. 17, p. 4402-4414. (2022: 4.7 - IF, Q2 - JCR, 1.063 - SJR, Q1 - SJR). ISSN 2516-0230. Dostupné na: <https://doi.org/10.1039/d3na00205e>
- Citácie:
- [1.1] FINAS, Marie - GIRARD, Hugues A. - ARNAULT, Jean-Charles. How to efficiently isolate multiple size ranges of oxidized or hydrogenated milled nanodiamonds. In *NANOSCALE ADVANCES*, 2024, vol. 6, no. 21, pp. 5375-5387. ISSN 2516-0230. Dostupné na: <https://doi.org/10.1039/d4na00487f>, Registrované v: WOS
 - [1.1] KUNTUMALLA, Mohan Kumar - CHEMIN, Arsene - FINAS, Marie - GIRARD, Hugues A. - MICHAELSON, Shaul - PETIT, Tristan - ARNAULT, Jean-Charles - HOFFMAN, Alon. Nitrogen-Terminated Milled Nanodiamond Surfaces by Plasma Exposure. In *JOURNAL OF PHYSICAL CHEMISTRY C*, 2024, vol. 128, no. 37, pp. 15573-15582. ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.4c03269>, Registrované v: WOS
 - [1.1] MARCHAL, Clement - SAOUDI, Lorris - GIRARD, Hugues A. - KELLER, Valerie - ARNAULT, Jean-Charles. Oxidized Detonation Nanodiamonds Act as an Efficient Metal-Free Photocatalyst to Produce Hydrogen Under Solar Irradiation. In *ADVANCED ENERGY AND SUSTAINABILITY RESEARCH*, 2024, vol. 5, no.

3. ISSN 2699-9412. Dostupné na: <https://doi.org/10.1002/aesr.202300260>, Registrované v: WOS

4. [1.1] NJEL, Christian - GIRARD, Hugues A. - FREGNAUX, Mathieu - AUREAU, Damien - ARNAULT, Jean-Charles. In situ photoemission spectroscopies to reveal surface transfer doping on hydrogenated milled nanodiamonds. In CARBON, 2024, vol. 230, no., art. no. 119668. ISSN 0008-6223. Dostupné na: <https://doi.org/10.1016/j.carbon.2024.119668>, Registrované v: WOS

5. [1.1] XU, Xiaoyue - GUO, Zhuang - WEI, Jian - WANG, Weiye - SONG, Yonghui. Highly efficient defluorination of perfluorooctanoic acid by a BiOCl-ND photocatalyst: Enhanced charge transfer and synergistic mechanism. In JOURNAL OF CLEANER PRODUCTION, 2024, vol. 475, no., art. no. 143629. ISSN 0959-6526. Dostupné na: <https://doi.org/10.1016/j.jclepro.2024.143629>, Registrované v: WOS

ADCA583 MILLER, Harry J. D. - MOHAMMADY, Mohammed Hamed - PERARNAU-LLOBET, Martí - GUARNIERI, Giacomo. Joint statistics of work and entropy production along quantum trajectories. In Physical Review E, 2021, vol. 103, no. 5, art. no. 052138. (2020: 2.529 - IF, Q1 - JCR, 0.896 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.103.052138>

Citácie:

1. [1.1] PAULINO, Paulo J. - LESANOVSKY, Igor - CAROLLO, Federico. Large Deviation Full Counting Statistics in Adiabatic Open Quantum Dynamics. In PHYSICAL REVIEW LETTERS, 2024, vol. 132, no. 26, art. no. 260402. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.260402>, Registrované v: WOS

ADCA584 MILLER, Harry J. D.** - MOHAMMADY, Mohammed Hamed - PERARNAU-LLOBET, Martí - GUARNIERI, Giacomo. Thermodynamic uncertainty relation in slowly driven quantum heat engines. In Physical Review Letters, 2021, vol. 126, no. 21, art. no. 210603. (2020: 9.161 - IF, Q1 - JCR, 3.688 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.126.210603>

Citácie:

1. [1.1] BLASI, Gianmichele - KHANDELWAL, Shishir - HAACK, Geraldine. Exact finite-time correlation functions for multiterminal setups: Connecting theoretical frameworks for quantum transport and thermodynamics. In PHYSICAL REVIEW RESEARCH, 2024, vol. 6, no. 4, art. no. 043091. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.043091>, Registrované v: WOS

2. [1.1] CANGEMI, Loris Maria - BHADRA, Chitrak - LEVY, Amikam. Quantum engines and refrigerators. In PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS, 2024, vol. 1087, no., pp. 1-71. ISSN 0370-1573. Dostupné na: <https://doi.org/10.1016/j.physrep.2024.07.001>, Registrované v: WOS

3. [1.1] CHATZITTOFI, Michalis - GOLESTANIAN, Ramin - AGUDO-CANALEJO, Jaime. Thermodynamic inference of correlations in nonequilibrium collective dynamics. In PHYSICAL REVIEW RESEARCH, 2024, vol. 6, no. 4, art. no. L042012. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.L042012>, Registrované v: WOS

4. [1.1] EGLINTON, Joshua - CAROLLO, Federico - LESANOVSKY, Igor - BRANDNER, Kay. Stochastic Thermodynamics at the Quantum- Classical Boundary: A Self-Consistent Framework Based on Adiabatic-Response Theory. In QUANTUM, 2024, vol. 8, no., art. no. 1486. ISSN 2521-327X., Registrované v: WOS

5. [1.1] KAUR, Kirandeep - JAIN, Anmol - SINGH, Love Sahajbir - SINGLA, Rakesh - REBARI, Shishram. Optimization analysis of an endoreversible quantum heat engine with efficient power function. In *JOURNAL OF NON-EQUILIBRIUM THERMODYNAMICS*, 2024, vol. 49, no. 3, pp. 251-263. ISSN 0340-0204. Dostupné na: <https://doi.org/10.1515/jnet-2023-0082>, Registrované v: WOS
6. [1.1] LANDI, Gabriel T. - KEWMING, Michael J. - MITCHISON, Mark T. - POTTS, Patrick P. Current Fluctuations in Open Quantum Systems: Bridging the Gap Between Quantum Continuous Measurements and Full Counting Statistics. In *PRX QUANTUM*, 2024, vol. 5, no. 2, art. no. 020201. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.020201>, Registrované v: WOS
7. [1.1] LI, Jian - MITCHISON, Mark T. - V. MOREIRA, Saulo. Entanglement signature in quantum work statistics in the slow-driving regime. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 3, art. no. 033297. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.033297>, Registrované v: WOS
8. [1.1] RAZZOLI, Luca - CARREGA, Matteo - CAVALIERE, Fabio - BENENTI, Giuliano - SASSETTI, Maura. Synchronization-induced violation of thermodynamic uncertainty relations. In *QUANTUM SCIENCE AND TECHNOLOGY*, 2024, vol. 9, no. 4, art. no. 045032. ISSN 2058-9565. Dostupné na: <https://doi.org/10.1088/2058-9565/ad6fc9>, Registrované v: WOS
9. [1.1] RAZZOLI, Luca - CAVALIERE, Fabio - CARREGA, Matteo - SASSETTI, Maura - BENENTI, Giuliano. Efficiency and thermodynamic uncertainty relations of a dynamical quantum heat engine. In *EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS*, 2024, vol. 233, no. 6, pp. 1263-1274. ISSN 1951-6355. Dostupné na: <https://doi.org/10.1140/epjs/s11734-023-00949-8>, Registrované v: WOS
10. [1.1] SALAZAR, Domingos S. P. Quantum relative entropy uncertainty relation. In *PHYSICAL REVIEW E*, 2024, vol. 109, no. 1, art. no. L012103. ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.109.L012103>, Registrované v: WOS
11. [1.1] SALAZAR, Domingos S. P. Uncertainty relation for symmetric Petz-Rényi relative entropy. In *PHYSICAL REVIEW E*, 2024, vol. 109, no. 5, art. no. L052106. ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.109.L052106>, Registrované v: WOS
12. [1.1] SHASTRI, Rahul - VENKATESH, B. Prasanna. Controlling work output and coherence in finite-time quantum Otto engines through monitoring. In *PHYSICAL REVIEW E*, 2024, vol. 109, no. 1, art. no. 014102. ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.109.014102>, Registrované v: WOS
13. [1.1] VINAIXA, Jose - MULA, Begona - DEANO, Alfredo - SANTALLA, Silvia N. - RODRIGUEZ-LAGUNA, Javier. Long term behavior of the stirred vacuum on a Dirac chain: geometry blur and the random Slater ensemble. In *JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT*, 2024, vol. 2024, no. 1, art. no. 013105. ISSN 1742-5468. Dostupné na: <https://doi.org/10.1088/1742-5468/ad1d58>, Registrované v: WOS
14. [1.1] VU, Tan Van - SAITO, Keiji. Geometric characterization for cyclic heat engines far from equilibrium. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 4, art. no. 042209. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.042209>, Registrované v: WOS
15. [1.1] WANG, Zi - REN, Jie. Thermodynamic Geometry of Nonequilibrium Fluctuations in Cyclically Driven Transport. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 20, art. no. 207101. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.207101>, Registrované v: WOS

- ADCA585 MINÁRIK, P.** - ZIMINA, M. - ČÍŽEK, J. - STRÁSKA, J. - KRAJŇÁK, Tomáš - CIESLAR, M. - VLASÁK, T. - BOHLEN, J. - KURZ, G. - LETZIG, D. Increased structural stability in twin-roll cast AZ31 magnesium alloy processed by equal channel angular pressing. In *Materials Characterization*, 2019, vol. 153, p. 199-207. (2018: 3.220 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1044-5803. Dostupné na: <https://doi.org/10.1016/j.matchar.2019.05.006>
- Citácie:
- [1.1] XU, Qiong - LI, Yuhua - MA, Aibin - JIANG, Jinghua - YANG, Donghui. *Obtaining Heterogeneous Microstructure and Enhanced Mechanical Properties in ECAP-Processed AZ61 Alloys via Single-Pass Rolling with Increased Rolling Reduction*. In *METALS*, 2024, vol. 14, no. 7, art. no. 765. Dostupné na: <https://doi.org/10.3390/met14070765>, Registrované v: WOS
 - [1.1] ZENG, Chaowei - PENG, Wei - YUAN, Ting - SUN, Zengwei - ZHOU, Yisong - XIE, Xufeng - HU, Hongjun. *Effect of Shear Angle on Microstructure and Mechanical Properties of AZ61 Mg Alloy During Extrusion-Shear Process*. In *METALS AND MATERIALS INTERNATIONAL*, 2024, vol. 30, no. 10, pp. 2808-2829. ISSN 1598-9623. Dostupné na: <https://doi.org/10.1007/s12540-024-01688-8>, Registrované v: WOS
- ADCA586 MIRASSO, C.R. - KOLEŠÍK, Miroslav - MATUS, M. - WHITE, J.K. - MOLONEY, J.V. Synchronization and multimode dynamics of mutually coupled semiconductor lasers. In *Physical Review A*, 2002, vol. 65, no. 1, art. no. 013805. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.65.013805>
- Citácie:
- [1.2] SCHULZ, Niklas - CHERNIAK, Vladyslav - SURKAMP, Nils - KREUZER, Lisa C. - BRENNER, Carsten - BALZER, Jan C. - HOFMANN, Martin R. *Fast CW-THz System Employing a Dual Mode Y-Branch DFB Laser*. In *Asia Pacific Microwave Conference Proceedings APMC*, 2024-01-01, pp. 67-69. ISBN [9798350363548]. Dostupné na: <https://doi.org/10.1109/APMC60911.2024.10867651>, Registrované v: SCOPUS
- ADCA587 MIŠICÁK, R. - STŘÍTESKÝ, S. - VALA, M. - WEITER, M. - CIGÁŇ, M. - GMUCOVÁ, Katarína - VÉGSÖ, Karol - WEIS, M. - KOŽÍŠEK, J. - PAVÚK, M. - PUTALA, M. Effect of the ethynylene linker on the properties and carrier mobility of naphthalene derivatives with hexylbithienyl arms. In *Synthetic Metals*, 2016, vol. 217, p. 156-171. (2015: 2.299 - IF, Q2 - JCR, 0.624 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0379-6779. Dostupné na: <https://doi.org/10.1016/j.synthmet.2016.03.034>
- Citácie:
- [1.1] CAMARADA, Maria B. - ANGEL, Felipe A. - JESSOP, Ignacio A. *Computational prediction of the properties of bis(ethynylthienyl)dialcynaphthalene-based conjugated polymers for organic solar cell applications*. In *INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY*, 2024, vol. 124, no. 1, art. no. e27283. ISSN 0020-7608. Dostupné na: <https://doi.org/10.1002/qua.27283>, Registrované v: WOS
 - [1.1] MUZAMMIL - ZAHOOR, Ameer Fawad - PARVEEN, Bushra - JAVED, Sadia - AKHTAR, Rabia - TABASSUM, Shaheera. *Recent developments in the chemistry of Negishi coupling: a review*. In *CHEMICAL PAPERS*, 2024, vol. 78, no. 6, pp. 3399-3430. ISSN 0366-6352. Dostupné na: <https://doi.org/10.1007/s11696-024-03369-7>, Registrované v: WOS
- ADCA588 MOHAMMADY, Mohammed Hamed - ROMITO, Alessandro. Efficiency of a cyclic quantum heat engine with finite-size baths. In *Physical Review E*, 2019, vol. 100, no. 1, art. no. 012122. (2018: 2.353 - IF, Q1 - JCR, 0.992 - SJR, Q1 - SJR, karentované -

CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.100.012122>

Citácie:

1. [1.1] BISWAS, Tanmoy - DATTA, Chandan. Optimal performance of a three-stroke heat engine in the microscopic regime. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 3, art. no. 032218. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.110.032218>, Registrované v: WOS

2. [1.1] LIU, Junjie - JUNG, Kenneth A. Quantum Carnot thermal machines reexamined: Definition of efficiency and the effects of strong coupling. In *PHYSICAL REVIEW E*, 2024, vol. 109, no. 4, art. no. 044118. ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.109.044118>, Registrované v: WOS

ADCA589 MOHAMMADY, Mohammed Hamed** - AUFFÈVES, A. - ANDERS, J. Energetic footprints of irreversibility in the quantum regime. In *Communications Physics*, 2020, vol. 3, no. 1, art. no. 89. (2019: 4.684 - IF, Q1 - JCR, 2.310 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2399-3650. Dostupné na: <https://doi.org/10.1038/s42005-020-0356-9>

Citácie:

1. [1.1] V. HOVHANNISYAN, Karen - IMPARATO, Alberto. Energy conservation and fluctuation theorem are incompatible for quantum work. In *QUANTUM*, 2024, vol. 8, no., art. no. 1336. ISSN 2521-327X. Dostupné na:

<https://doi.org/10.22331/q-2024-05-06-1336>, Registrované v: WOS

2. [1.1] XUE, Qing-Feng - ZHUANG, Xu-Cai - DUAN, De-Yang - ZHANG, Ying-Jie - YAN, Wei-Bin - XIA, Yun-Jie - LO FRANCO, Rosario - MAN, Zhong-Xiao. Evidence of genuine quantum effects in nonequilibrium entropy production via quantum photonics. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 4, art. no. 042204. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.110.042204>, Registrované v: WOS

ADCA590 MOHAMMADY, Mohammed Hamed**. Self-consistency of the two-point energy measurement protocol. In *Physical Review A*, 2021, vol. 103, no. 4, art. no. 042214. (2020: 3.140 - IF, Q2 - JCR, 1.391 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.103.042214>

Citácie:

1. [1.1] YU, Jiale - WANG, Shiyu - LIU, Kangqiao - ZHA, Chen - WU, Yulin - CHEN, Fusheng - YE, Yangsen - LI, Shaowei - ZHU, Qingling - GUO, Shaojun - QIAN, Haoran - HUANG, He-Liang - ZHAO, Youwei - YING, Chong - FAN, Daojin - WU, Dachao - SU, Hong - DENG, Hui - RONG, Hao - ZHANG, Kaili - CAO, Sirui - LIN, Jin - XU, Yu - GUO, Cheng - LI, Na - LIANG, Futian - WU, Gang - HUO, Yong-Heng - LU, Chao-Yang - PENG, Cheng-Zhi - NEMOTO, Kae - MUNRO, W. J. - ZHU, Xiaobo - PAN, Jian-Wei - GONG, Ming. Experimental demonstration of a Maxwell's demon quantum battery in a superconducting noisy intermediate-scale quantum processor. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 6, art. no. 062614. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.109.062614>, Registrované v: WOS

ADCA591 MOHAMMADY, Mohammed Hamed. Classicality of the heat produced by quantum measurements. In *Physical Review A*, 2021, vol. 104, no. 6, art. no. 062202. (2020: 3.140 - IF, Q2 - JCR, 1.391 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.104.062202>

Citácie:

1. [1.1] PERNA, Guillermo - CALZETTA, Esteban. Limits on quantum

measurement engines. In *PHYSICAL REVIEW E*, 2024, vol. 109, no. 4, art. no. 044102. ISSN 2470-0045. Dostupné na:

<https://doi.org/10.1103/PhysRevE.109.044102>, Registrované v: WOS

- ADCA592 MOHAMMADY, Mohammed Hamed - MIYADERA, Takayuki - LOVERIDGE, Leon. Measurement disturbance and conservation laws in quantum mechanics. In *Quantum : the open journal for quantum science*, 2023, vol. 7, art. no. 1033. (2022: 6.4 - IF, Q1 - JCR, 2.702 - SJR, Q1 - SJR). ISSN 2521-327X. Dostupné na: <https://doi.org/10.22331/q-2023-06-05-1033>

Citácie:

1. [1.1] PICCIONE, Nicolo - MAFFEI, Maria - JORDAN, Andrew N. - MURCH, Kater W. - AUFFEVES, Alexia. Exploring the Accuracy of Interferometric Quantum Measurements under Conservation Laws. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 24, art. no. 240202. ISSN 0031-9007. Dostupné na:

<https://doi.org/10.1103/PhysRevLett.133.240202>, Registrované v: WOS

- ADCA593 MÓLLER, Natália Salomé** - SAHDO, Bruna - YOKOMIZO, Nelson. Quantum switch in the gravity of Earth. In *Physical Review A*, 2021, vol. 104, no. 4, art. no. 042414. (2020: 3.140 - IF, Q2 - JCR, 1.391 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.104.042414>

Citácie:

1. [1.1] BAGCHI, Bijan - GHOSH, Aritra - SEN, Sauvik. Quantized Area of the Schwarzschild Black Hole: A non-Hermitian Perspective. In *GRAVITATION & COSMOLOGY*, 2024, vol. 30, no. 4, pp. 481-488. ISSN 0202-2893. Dostupné na:

<https://doi.org/10.1134/S0202289324700373>, Registrované v: WOS

2. [1.1] MOREIRA, Thiago H. - CELERI, Lucas C. Decoherence of a composite particle induced by a weak quantized gravitational field. In *CLASSICAL AND QUANTUM GRAVITY*, 2024, vol. 41, no. 1, art. no. 015006. ISSN 0264-9381.

Dostupné na: <https://doi.org/10.1088/1361-6382/ad0a53>, Registrované v: WOS

3. [1.1] TALALOV, S. V. The system of the vortex-like structures: The viewpoint on a turbulence modeling. In *CHAOS SOLITONS & FRACTALS*, 2024, vol. 185, no., art. no. 115097. ISSN 0960-0779. Dostupné na:

<https://doi.org/10.1016/j.chaos.2024.115097>, Registrované v: WOS

- ADCA594 MORAVČÍKOVÁ, Lenka - ZIMAN, Mário. Entanglement-annihilating and entanglement-breaking channels. In *Journal of Physics A*, 2010, vol. 43, no. 27, art. no. 275306. (2009: 1.577 - IF, Q2 - JCR, 1.077 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, EBSCO, SCOPUS). ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8113/43/27/275306>

Citácie:

1. [1.1] IBARRA-GARCIA-PADILLA, Eduardo - STRIEGEL, Stephanie - SCALETAR, Richard T. - KHATAMI, Ehsan. Structural complexity of snapshots of two-dimensional Fermi-Hubbard systems. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 5, art. no. 053304. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.109.053304>, Registrované v: WOS

2. [1.1] PINSKE, Julien - MOLMER, Klaus. Censorship of quantum resources in quantum networks. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 6, art. no. 062404. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.110.062404>, Registrované v: WOS

3. [1.1] PINSKE, Julien - SPERLING, Jan. Unbreakable and breakable quantum censorship. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 5, art. no. 052408. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.052408>,

Registrované v: WOS

4. [1.1] SRINIDHI, P. - CHAKRABARTY, Indranil - BHATTACHARYA, Samyadeb

- GANGULY, Nirman. Quantum channels that destroy negative conditional entropy. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 4, art. no. 042423. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.042423>, Registrované v: WOS

ADCA595 MORHÁČ, Miroslav - KLIMAN, Ján - MATOUŠEK, Vladislav - VESELSKÝ, Martin - TURZO, Ivan. Identification of peaks in multidimensional coincidence gamma-ray spectra. In *Nuclear Instruments and Methods in Physics Research A. Accelerators, Spectrometers, Detectors and Associated Equipment*, 2000, vol. 443, no. 1, p. 108-125. (1999: 0.921 - IF, karentované - CCC). (2000 - Current Contents, SCOPUS). ISSN 0168-9002. Dostupné na: [https://doi.org/10.1016/S0168-9002\(99\)01005-0](https://doi.org/10.1016/S0168-9002(99)01005-0)

Citácie:

1. [1.1] SHAMIR, Lior. Galaxy spin direction asymmetry in JWST deep fields. In *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF AUSTRALIA*, 2024, vol. 41, no., art. no. e038. ISSN 1323-3580. Dostupné na: <https://doi.org/10.1017/pasa.2024.20>, Registrované v: WOS

ADCA596 MORHÁČ, Miroslav - MATOUŠEK, Vladislav - KLIMAN, Ján. Optimized multidimensional nonoscillating deconvolution. Vladislav Matoušek. In *Journal of Computational and Applied Mathematics*, 2002, vol. 140, no. 1-2, p. 639-658. ISSN 0377-0427. Dostupné na: [https://doi.org/10.1016/S0377-0427\(01\)00521-0](https://doi.org/10.1016/S0377-0427(01)00521-0)

Citácie:

1. [1.1] SPERANZA, Giorgio. Application of the Van Cittert Algorithm for Deconvolving Loss Features in X-ray Photoelectron Spectroscopy Spectra. In *MATERIALS*, 2024, vol. 17, no. 3, art. no. 763. Dostupné na: <https://doi.org/10.3390/ma17030763>, Registrované v: WOS

2. [1.1] ZHANG, X. M. - ZHENG, X. - LI, X. L. - MENG, F. Q. - YIN, S. S. A method with ultra-high angular resolution for X-ray diffraction experiments. In *JOURNAL OF SYNCHROTRON RADIATION*, 2024, vol. 31, no., pp. 35-41. ISSN 0909-0495. Dostupné na: <https://doi.org/10.1107/S160057752300961X>, Registrované v: WOS

ADCA597 MORHÁČ, Miroslav - KLIMAN, Ján - MATOUŠEK, Vladislav - VESELSKÝ, Martin - TURZO, Ivan. Efficient one- and two-dimensional gold deconvolution and its application to gamma-ray spectra decomposition. In *Nuclear Instruments and Methods in Physics Research A*, 1997, vol. 401, no. 2-3, p. 385-408. (1996: 1.038 - IF, karentované - CCC). (1997 - Current Contents, SCOPUS). ISSN 0168-9002. Dostupné na: [https://doi.org/10.1016/S0168-9002\(97\)01058-9](https://doi.org/10.1016/S0168-9002(97)01058-9)

Citácie:

1. [1.1] CAI, Xiangming - YANG, Hui - YANG, Xiyu - HE, Yixin - SHAN, Jian. Research on a novel γ -ray spectrum analysis method for low- and intermediate-level radioactive solid waste in nuclear power plants. In *NUCLEAR ENGINEERING AND TECHNOLOGY*, 2024, vol. 56, no. 11, pp. 4688-4697. ISSN 1738-5733. Dostupné na: <https://doi.org/10.1016/j.net.2024.06.032>, Registrované v: WOS

2. [1.1] GOZLINSKI, Thomas - HENN, Mirjam - WOLF, Thomas - LE TACON, Matthieu - SCHMALIAN, Joerg - WULFHEKEL, Wulf. Bosonic excitation spectra of superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ and $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ extracted from scanning tunneling spectra. In *JOURNAL OF PHYSICS-CONDENSED MATTER*, 2024, vol. 36, no. 17, art. no. 175601. ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/1361-648X/ad1ca8>, Registrované v: WOS

3. [1.1] OPICAL, A. - RODIN, A. M. - KRUPA, L. - PECHOUSEK, J. - CHERNYSHEVA, E. V. - GULYAEV, A. V. - NOVOSELOV, A. S. - PODSHIBYAKIN, A. V. - SALAMATIN, V. S. - VEDENEEV, V. Yu. - KOMAROV, A.

B. - YUKHIMCHUK, S. A. Motorized manipulator of metal foils for degrading heavy ion beam energy. In JOURNAL OF INSTRUMENTATION, 2024, vol. 19, no. 12, art. no. T12003. ISSN 1748-0221. Dostupné na: <https://doi.org/10.1088/1748-0221/19/12/T12003>, Registrované v: WOS
 4. [1.1] ZHANG, X. M. - ZHENG, X. - LI, X. L. - MENG, F. Q. - YIN, S. S. A method with ultra-high angular resolution for X-ray diffraction experiments. In JOURNAL OF SYNCHROTRON RADIATION, 2024, vol. 31, no., pp. 35-41. ISSN 0909-0495. Dostupné na: <https://doi.org/10.1107/S160057752300961X>, Registrované v: WOS

ADCA598 MORHÁČ, Miroslav. Deconvolution methods and their applications in the analysis of gamma-ray spectra. In Nuclear Instruments and Methods in Physics Research A, 2006, vol. 559, no. 1, p. 119-123. (2005: 1.224 - IF, Q1 - JCR, 0.858 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 0168-9002. Dostupné na: <https://doi.org/10.1016/j.nima.2005.11.129>

Citácie:

1. [1.1] CAI, Xiangming - YANG, Hui - YANG, Xiyu - HE, Yixin - SHAN, Jian. Research on a novel γ -ray spectrum analysis method for low- and intermediate-level radioactive solid waste in nuclear power plants. In NUCLEAR ENGINEERING AND TECHNOLOGY, 2024, vol. 56, no. 11, pp. 4688-4697. ISSN 1738-5733. Dostupné na: <https://doi.org/10.1016/j.net.2024.06.032>, Registrované v: WOS

2. [1.1] GOZLINSKI, Thomas - HENN, Mirjam - WOLF, Thomas - LE TACON, Matthieu - SCHMALIAN, Joerg - WULFHEKEL, Wulf. Bosonic excitation spectra of superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ and $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ extracted from scanning tunneling spectra. In JOURNAL OF PHYSICS-CONDENSED MATTER, 2024, vol. 36, no. 17, art. no. 175601. ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/1361-648X/ad1ca8>, Registrované v: WOS

3. [1.2] DUPUIS, Quentin - BISSUEL, Valentin - LARAQI, Najib - BAUZIN, Jean Gabriel - NGUYEN, Minh Nhat. Investigation on the structure function of an electronic packaging to verify detailed thermal model assumptions. In Heat and Mass Transfer Waerme Und Stoffuebertragung, 2024-12-01, 60, 12, pp. 1-14. ISSN 09477411. Dostupné na: <https://doi.org/10.1007/s00231-022-03335-7>, Registrované v: SCOPUS

ADCA599 MORHÁČ, Miroslav - KLIMAN, Ján - MATOUŠEK, Vladislav - VESELSKÝ, Martin - TURZO, Ivan. Background elimination methods for multidimensional coincidence gamma-ray spectra. In Nuclear Instruments and Methods in Physics Research A, 1997, vol. 401, no. 1, p. 113-132. (1996: 1.038 - IF, karentované - CCC). (1997 - Current Contents, SCOPUS). ISSN 0168-9002. Dostupné na: [https://doi.org/10.1016/S0168-9002\(97\)01023-1](https://doi.org/10.1016/S0168-9002(97)01023-1)

Citácie:

1. [1.2] ABED ABUD, A. - ABI, B. - ACCIARRI, R. - ACERO, M. A. - ADAMES, M. R. - ADAMOV, G. - ADAMOWSKI, M. - ADAMS, D. - ADINOLFI, M. - ADRIANO, C. - ADUSZKIEWICZ, A. - AGUILAR, J. - AIMARD, B. - AKBAR, F. - ALLISON, K. - ALONSO MONSALVE, S. - ALRASHED, M. - ALTON, A. - ALVAREZ, R. - AMAR ES-SGHIR, H. - AMEDO, P. - ANDERSON, J. - ANDRADE, D. A. - ANDREOPOULOS, C. - ANDREOTTI, M. - ANDREWS, M. P. - ANDRIANALA, F. - ANDRINGA, S. - ANFIMOV, N. - ANKOWSKI, A. - ANTONIASSI, M. - ANTONOVA, M. - ANTOSHKIN, A. - ARANDA-FERNANDEZ, A. - ARELLANO, L. - ARRIETA DIAZ, E. - ARROYAVE, M. A. - ASAADI, J. - ASHKENAZI, A. - ASQUITH, L. - ATKIN, E. - AUGUSTE, D. - AURISANO, A. - AUSHEV, V. - AUTIERO, D. - AZFAR, F. - BACK, A. - BACK, H. - BACK, J. J. - BAGATURIA, I. - BAGBY, L. - BALASHOV, N. - BALASUBRAMANIAN, S. -

BALDI, P. - BALDINI, W. - BALLER, B. - BAMBAH, B. - BANERJEE, R. - BARAO, F. - BARENBOIM, G. - BARHAM ALZÁS, P. - BARKER, G. J. - BARKHOUSE, W. - BARR, G. - BARRANCO MONARCA, J. - BARROS, A. - BARROS, N. - BARROW, D. - BARROW, J. L. - BASHARINA-FRESHVILLE, A. - BASHYAL, A. - BASQUE, V. - BATCHELOR, C. - BATHE-PETERS, L. - BATTAT, J. B.R. - BATTISTI, F. - BAY, F. - BAZETTO, M. C.Q. - BAZO ALBA, J. L.L. - BEACOM, J. F. - BECHETOILLE, E. - BEHERA, B. - BELCHIOR, E. - BELL, G. - BELLANTONI, L. - BELLETTINI, G. - BELLINI, V. - BELTRAMELLO, O. - BENEKOS, N. - BENITEZ MONTIEL, C. - BENJAMIN, D. - BENTO NEVES, F. - BERGER, J. - BERKMAN, S. - BERNARDINI, P. - BERSANI, A. - BERTOLUCCI, S. - BETANCOURT, M. - BETANCUR RODRÍGUEZ, A. - BEVAN, A. Doping liquid argon with xenon in ProtoDUNE Single-Phase: effects on scintillation light. In *Journal of Instrumentation*, 2024-08-01, 19, 8, pp. Dostupné na: <https://doi.org/10.1088/1748-0221/19/08/P08005>, Registrované v: SCOPUS

2. [1.2] GOLOVKO, Victor V. Simplified efficiency calibration methods for scintillation detectors used in nuclear remediation. In *Journal of Cleaner Production*, 2024-11-01, 478, pp. ISSN 09596526. Dostupné na: <https://doi.org/10.1016/j.jclepro.2024.143910>, Registrované v: SCOPUS

3. [1.2] KONKOL, Jakub A. - SINGH, Ravendra - MUZZIO, Fernando J. - TSILOMELEKIS, George. On the synthesis of diphenhydramine: Steady state kinetics, solvation effects, and in-situ Raman and benchtop NMR as PAT. In *Chemical Engineering Journal*, 2024-08-01, 493, pp. ISSN 13858947. Dostupné na: <https://doi.org/10.1016/j.cej.2024.152159>, Registrované v: SCOPUS

4. [1.2] LI, Wanxue - HE, Yaxiong - LI, Yang - CAI, Feinan - ZHANG, Yong. Rapid Identification of Homogeneous Alloys Based on Laser-Induced Breakdown Spectroscopy Combined with Machine-Learning Algorithms. In *Laser and Optoelectronics Progress*, 2024-09-01, 61, 17, pp. ISSN 10064125. Dostupné na: <https://doi.org/10.3788/LOP232417>, Registrované v: SCOPUS

5. [1.2] PETROKILIDOU, Chrysoula - PAVLOU, Eleftherios - VELEGRAKI, Aristeia - SIMOU, Anna - MARSELLOU, Ioanna - FILIS, Grigorios - BASSUKAS, Ioannis D. - GAITANIS, Georgios - KOURKOUMELIS, Nikolaos. Characterization and Differentiation of *Candida auris* on Dixon's Agar Using Raman Spectroscopy. In *Pathogens*, 2024-11-01, 13, 11, pp. Dostupné na: <https://doi.org/10.3390/pathogens13110978>, Registrované v: SCOPUS

6. [1.2] SCHULTZ, Constanze - WEGNER, Tristan - HEUSEL, Corinna - GALLAGHER, Tim - ZHENG, Yanjun - WERNER, Markus - WEGNER, Seraphine V. - MEYER-ZEDLER, Tobias - WERZ, Oliver - SCHMITT, Michael - POPP, Juergen - GLORIUS, Frank. Alkyne-tagged imidazolium-based membrane cholesterol analogs for Raman imaging applications. In *Chemical Science*, 2024-08-07, 15, 35, pp. 14323-14335. ISSN 20416520. Dostupné na: <https://doi.org/10.1039/d4sc03155e>, Registrované v: SCOPUS

7. [1.2] SCHULTZ, Constanze - ZOPF, David - HOLZINGER, Andreas - SILGE, Anja - MEYER-ZEDLER, Tobias - SCHMITT, Michael - WICHARD, Thomas - POPP, Juergen. Raman Spectral Analysis in the CH_x-Stretching Region as a Guiding Beacon for Non-Targeted, Disruption-Free Monitoring of Germination and Biofilm Formation in the Green Seaweed *Ulva*. In *Chemphyschem*, 2024-09-02, 25, 17, pp. ISSN 14394235. Dostupné na: <https://doi.org/10.1002/cphc.202400173>, Registrované v: SCOPUS

8. [1.2] SHOKEEN, Vishal - HEBER, Michael - KUTNYAKHOV, Dmytro - WANG, Xiaocui - YAROSLAVTSEV, Alexander - MALDONADO, Pablo - BERRITTA, Marco - WIND, Nils - WENTHAUS, Lukas - PRESSACCO, Federico - MIN, Chul Hee - NISSEN, Matz - MAHATHA, Sanjoy K. - DZIARZHYTSKI, Siarhei -

OPPENEER, Peter M. - ROSSNAGEL, Kai - ELMERS, Hans Joachim - SCHÖNHENSE, Gerd - DÜRR, Hermann A. Real-time observation of non-equilibrium phonon-electron energy and angular momentum flow in laser-heated nickel. In *Science Advances*, 2024-02-20, 10, 5, pp. Dostupné na: <https://doi.org/10.1126/sciadv.adj2407>, Registrované v: SCOPUS

MORHÁČ, Miroslav. An algorithm for determination of peak regions and baseline elimination in spectroscopic data. In *Nuclear Instruments and Methods in Physics Research A. Accelerators, Spectrometers, Detectors and Associated Equipment*, 2009, vol. 600, no. 2, pp. 478-487. (2008: 1.019 - IF, Q2 - JCR, 0.755 - SJR, Q2 - SJR, karentované - CCC). (2009 - Current Contents, SCOPUS). ISSN 0168-9002. Dostupné na: <https://doi.org/10.1016/j.nima.2008.11.132>

Citácie:

1. [1.1] JANG, Jaewoong. Computational generation of tailored radionuclide libraries for alpha-particle and gamma-ray spectrometry. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 4, art. no. 043208. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.043208>, Registrované v: WOS

2. [1.1] KEATING, Logan P. - HUANG, Conan - SHIM, Moonsub. A high temperature in situ optical probe for colloidal nanocrystal synthesis. In *REVIEW OF SCIENTIFIC INSTRUMENTS*, 2024, vol. 95, no. 6, art. no. 063704. ISSN 0034-6748. Dostupné na: <https://doi.org/10.1063/5.0203710>, Registrované v: WOS

3. [1.1] PEROT, Solene - LECOMTE, Julien - SUAS-DAVID, Nicolas - RUTKOWSKI, Lucile - REY, Michael - KASSI, Samir - NIKITIN, Andrei V. - GEORGES, Robert. Jet-cooled ethylene cavity ring-down spectroscopy between 5880 and 6200 cm⁻¹. In *JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER*, 2024, vol. 324, no., art. no. 109065. ISSN 0022-4073. Dostupné na: <https://doi.org/10.1016/j.jqsrt.2024.109065>, Registrované v: WOS

4. [1.1] WANG, Xiaohu - CAO, Ping - WANG, Yuanda - WANG, Weiyu - RUAN, Jinlu - HE, Shiyi - WANG, Fangbao - CHEN, Liang. Self-calibration method for LaBr 3 coupled with SiPM detector based on internal radiation of ¹³⁸La. In *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*, 2024, vol. 1064, no., art. no. 169461. ISSN 0168-9002. Dostupné na: <https://doi.org/10.1016/j.nima.2024.169461>, Registrované v: WOS

5. [1.1] WERELLAPATHA, K. - PALMER, N. E. - GORMAN, M. G. - BERNIER, J. V. - BHANDARKAR, N. S. - BRADLEY, D. K. - BRAUN, D. G. - BRUHN, M. - CARPENTER, A. - CELLIERS, P. M. - COPPARI, F. - DAYTON, M. - DURAND, C. - EGGERT, J. H. - FERGUSON, B. - HEIDL, B. - HEINBOCKEL, C. - HEREDIA, R. - HUCKINS, J. - HURD, E. - HSING, W. - KRAULAND, C. M. - LAZICKI, A. E. - KALANTAR, D. - KEHL, J. - KILLEBREW, K. - MASTERS, N. - MILLOT, M. - NAGEL, S. R. - PETRE, R. B. - PING, Y. - POLSIN, D. N. - SINGH, S. - STAN, C. V. - SWIFT, D. - TABIMINA, J. - THOMAS, A. - ZOBRIST, T. - BENEDETTI, L. R. Time-resolved X-ray diffraction diagnostic development for the National Ignition Facility. In *REVIEW OF SCIENTIFIC INSTRUMENTS*, 2024, vol. 95, no. 1, art. no. 013903. ISSN 0034-6748. Dostupné na: <https://doi.org/10.1063/5.0161343>, Registrované v: WOS

6. [1.1] YANG, Y. MALDI-TOF Mass Fingerprinting for Rapid Identification of Bacteria: Data Analysis and Algorithm Development. In *DETECTION AND ANALYSIS OF MICROORGANISMS BY MASS SPECTROMETRY*, 2024, vol. 13, no., pp. 45-75. ISSN 2045-7545. Dostupné na: <https://doi.org/10.1039/BK9781837670338-00045>, Registrované v: WOS

7. [1.2] HAO, Maotong - ZHANG, Yingying - WU, Bingwei - FENG, Xiandong -

WU, Hongfan - ZENG, Jing. Gamma spectral analysis method based on lanthanum bromide scintillation crystal for seawater. In *Proceedings of SPIE the International Society for Optical Engineering*, 2024-01-01, 13253, pp. ISBN [9781510682467]. ISSN 0277786X. Dostupné na:

<https://doi.org/10.1117/12.3041036>, Registrované v: SCOPUS

8. [1.2] JIANG, Aosong - WU, Longhua - LI, Zhu. Application of Energy Dispersive X-ray Fluorescence Spectroscopy in Analysis of Heavy Metals in Soil: A Review. In *Yankuang Ceshi*, 2024-07-01, 43, 4, pp. 659-675. ISSN 02545357. Dostupné na: <https://doi.org/10.15898/j.ykcs.202312230186>, Registrované v: SCOPUS

9. [1.2] JIANG, Xiaoping - JIN, Weiqi - WU, Yucheng - ZHAO, Huilin - LIU, Yurong - MA, Suliang - LONG, Yongquan - HUANG, Yan. Application of an optimized method of complex wavelet with inverse derivative fitting in background subtraction of XRF spectra. In *Journal of Mining Science and Technology*, 2024-10-01, 9, 5, pp. 817-827. ISSN 20962193. Dostupné na:

<https://doi.org/10.19606/j.cnki.jmst.2024.05.016>, Registrované v: SCOPUS

10. [1.2] LYU, Liangliang - GAO, Xudong - WEI, Wenjing - LI, Chang - SUN, Shuyi - LEI, Yinqi - PAN, Xiaodong - LI, Gongping. Research on Gamma-thickness Measurement Method Based on U-Net. In *Yuanzineng Kexue Jishu Atomic Energy Science and Technology*, 2024-08-01, 58, 8, pp. 1777-1788. ISSN 10006931. Dostupné na: <https://doi.org/10.7538/yzk.2023.youxian.0746>, Registrované v: SCOPUS

ADCA601

MORHÁČ, Miroslav - MATOUŠEK, Vladislav. Peak clipping algorithms for background estimation in spectroscopic data. In *Applied Spectroscopy*, 2008, vol. 62, no. 1, p. 91-106. (2007: 1.902 - IF, Q1 - JCR, 0.782 - SJR, Q1 - SJR). ISSN 0003-7028. Dostupné na: <https://doi.org/10.1366/000370208783412762>

Citácie:

1. [1.1] BEN HAMOUDA, Refka - ESTELLON, Bertrand - HIMET, Khalil - CHERIF, Aimen - MARTHINET, Hugo - LOREAU, Jean-Marie - TEXIER, Gaetan - GRANJEAUD, Samuel - ALMERAS, Lionel. MSPProfileR: An Open-Source Software for Quality Control of Matrix-Assisted Laser Desorption Ionization-Time of Flight Spectra. In *INFORMATICS-BASEL*, 2024, vol. 11, no. 2, art. no. 39. Dostupné na: <https://doi.org/10.3390/informatics11020039>, Registrované v: WOS

2. [1.1] CAI, Xiangming - YANG, Hui - YANG, Xiyu - HE, Yixin - SHAN, Jian. Research on a novel γ -ray spectrum analysis method for low- and intermediate-level radioactive solid waste in nuclear power plants. In *NUCLEAR ENGINEERING AND TECHNOLOGY*, 2024, vol. 56, no. 11, pp. 4688-4697. ISSN 1738-5733. Dostupné na: <https://doi.org/10.1016/j.net.2024.06.032>, Registrované v: WOS

3. [1.1] CHIEN, Jun-Yi - GU, Yong-Chun - CHIEN, Chia-Chen - CHANG, Chia-Ling - CHENG, Ho-Wen - CHIU, Shirley Wen-Yu - NEE, Yeu-Jye - TSAI, Hsin-Mei - CHU, Fang-Yeh - TANG, Hui-Fei - WANG, Yuh-Lin - LIN, Chi-Hung. Unraveling RNA contribution to the molecular origins of bacterial surface-enhanced Raman spectroscopy (SERS) signals. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 19505. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-70274-0>, Registrované v: WOS

4. [1.1] GOLOVKO, Victor V. Simplified efficiency calibration methods for scintillation detectors used in nuclear remediation. In *JOURNAL OF CLEANER PRODUCTION*, 2024, vol. 478, no., art. no. 143910. ISSN 0959-6526. Dostupné na: <https://doi.org/10.1016/j.jclepro.2024.143910>, Registrované v: WOS

5. [1.1] MOUCHARD, Quentin - HAZIM, Mostafa - KOUMEIR, Charbel - GUERTIN, Arnaud - HADDAD, Ferid - NAJA, Adnan - RALITE, Flavien -

SERVAGENT, Noel - METIVIER, Vincent. New experimental measurements of X-ray emissions induced by protons of several tens of MeV on elements with $Z=22$ to $Z=79$: Toward quantitative high-energy PIXE. In *RADIATION PHYSICS AND CHEMISTRY*, 2024, vol. 221, no., art. no. 111777. ISSN 0969-806X. Dostupné na: <https://doi.org/10.1016/j.radphyschem.2024.111777>, Registrované v: WOS

6. [1.1] WANG, Xiaohu - CAO, Ping - WANG, Yuanda - WANG, Weiyu - RUAN, Jinlu - HE, Shiyi - WANG, Fangbao - CHEN, Liang. Self-calibration method for LaBr 3 coupled with SiPM detector based on internal radiation of ^{138}La . In *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*, 2024, vol. 1064, no., art. no. 169461. ISSN 0168-9002. Dostupné na: <https://doi.org/10.1016/j.nima.2024.169461>, Registrované v: WOS

7. [1.1] ZHAO, Wei - AI, Xianyun - XIAO, Xiong - XIAO, Wuyun - QI, Sheng - LI, Jinglun - ZHANG, Jipeng - LEI, Wenming. A background correction method for energy-dispersive x-ray fluorescence spectra based on morphological operation. In *X-RAY SPECTROMETRY*, 2024, vol. 53, no. 1, pp. 27-37. ISSN 0049-8246. Dostupné na: <https://doi.org/10.1002/xrs.3353>, Registrované v: WOS

ADCA602 MORHÁČ, Miroslav - MATOUŠEK, Vladislav. High-resolution boosted deconvolution of spectroscopic data. In *Journal of Computational and Applied Mathematics*, 2011, vol. 235, no. 6, p. 1629-1640. (2010: 1.030 - IF, Q2 - JCR, 0.920 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0377-0427. Dostupné na: <https://doi.org/10.1016/j.cam.2010.09.005>

Citácie:

1. [1.1] CAI, Xiangming - YANG, Hui - YANG, Xiyu - HE, Yixin - SHAN, Jian. Research on a novel γ -ray spectrum analysis method for low- and intermediate-level radioactive solid waste in nuclear power plants. In *NUCLEAR ENGINEERING AND TECHNOLOGY*, 2024, vol. 56, no. 11, pp. 4688-4697. ISSN 1738-5733. Dostupné na: <https://doi.org/10.1016/j.net.2024.06.032>, Registrované v: WOS
2. [1.1] LEI, Qingyun - YANG, Xiong - CHENG, Mousen - ZHANG, Fan - GUO, Dawei - LI, Xiaokang - XIAO, Wenjie. Research on a deconvolution algorithm for laser-induced fluorescence diagnosis based on the maximum entropy principle. In *PLASMA SCIENCE & TECHNOLOGY*, 2024, vol. 26, no. 7, art. no. 075504. ISSN 1009-0630. Dostupné na: <https://doi.org/10.1088/2058-6272/ad3420>, Registrované v: WOS
3. [1.1] LI, Wenhui - ZHOU, Qianqian - ZHANG, Yuzhong - XIE, Jianming - ZHAO, Wei - LI, Jinglun - CUI, Hui. An Ultra-Throughput Boost Method for Gamma-Ray Spectrometers. In *ENERGIES*, 2024, vol. 17, no. 6, art. no. 1456. Dostupné na: <https://doi.org/10.3390/en17061456>, Registrované v: WOS
4. [1.1] NEULINGER, Thomas. Developments in neutron Fourier time-of-flight. In *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*, 2024, vol. 1065, no., art. no. 169513. ISSN 0168-9002. Dostupné na: <https://doi.org/10.1016/j.nima.2024.169513>, Registrované v: WOS

ADCA603 MORHÁČ, Miroslav - MORHÁČOVÁ, E. Monte Carlo simulation algorithms of grain growth in polycrystalline materials. In *Crystal Research and Technology*, 2000, vol. 35, no. 1, p. 117-128. ISSN 0232-1300. Dostupné na: [https://doi.org/10.1002/\(SICI\)1521-4079\(200001\)35:1<::AID-CRAT117>3.0.CO;2-X](https://doi.org/10.1002/(SICI)1521-4079(200001)35:1<::AID-CRAT117>3.0.CO;2-X)

Citácie:

1. [1.1] LYU, Xiaohui - TIAN, Chunyan - SHI, Lei - WU, Chuansong - CHEN, Ji - YU, Pengfei. Multi-scale modelling of the microstructure evolution during friction

- stir welding of 2195 Al-Li alloy. In *JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T*, 2024, vol. 28, no., pp. 1318-1329. ISSN 2238-7854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2023.12.045>, Registrované v: WOS
2. [1.1] LYU, Xiaohui - TIAN, Chunyan - ZHANG, Wenxin - SHI, Lei - WU, Chuansong - CHEN, Ji - YU, Pengfei. Revealing the mechanism of superimposing ultrasonic vibration on microstructure evolution in friction stir welding by multi-physical multi-scale simulation. In *JOURNAL OF MANUFACTURING PROCESSES*, 2024, vol. 124, no., pp. 300-315. ISSN 1526-6125. Dostupné na: <https://doi.org/10.1016/j.jmapro.2024.06.004>, Registrované v: WOS
- ADCA604 MORHÁČ, Miroslav. A fast algorithm of nonlinear Volterra filtering. In *IEEE Transaction Signal Processing*, 1991, vol. 39, no. 10, p. 2353-2356. Dostupné na: <https://doi.org/10.1109/78.91194>
- Citácie:
1. [1.1] FONSECA, Aaron J. - BOLSTAD, Andrew K. - DICKERSON, Julie A. Reducing the Computational Complexity of the Volterra Series Using Permutation/Product Maps. In *2024 IEEE CANADIAN CONFERENCE ON ELECTRICAL AND COMPUTER ENGINEERING, CCECE 2024 : IEEE Canadian Conference on Electrical and Computer Engineering (CCECE)*, 2024, vol., no., pp. 718-723. ISSN 0840-7789. Dostupné na: <https://doi.org/10.1109/CCECE59415.2024.10667091>, Registrované v: WOS
- ADCA605 MORHÁČOVÁ, Eva - MORHÁČ, Miroslav. A study of the influence of input parameters on the microstructure development of polycrystalline materials in Monte Carlo simulations of grain growth. In *Kovové materiály*, 2007, vol. 45, no. 2, p. 105-114.
- Citácie:
1. [1.1] CHEN, Benshuai - REN, Xinyu - DIAO, Quanwei - ZOU, Hongbo - SHI, Xiaolong - SUI, Tianyi - LIN, Bin - YAN, Shuai. A review of in-situ measurement and simulation technologies for ceramic sintering: towards a digital twin sintering system. In *JOURNAL OF MATERIALS SCIENCE*, 2024, vol. 59, no. 29, pp. 13652-13676. ISSN 0022-2461. Dostupné na: <https://doi.org/10.1007/s10853-024-09986-7>, Registrované v: WOS
- ADCA606 MORIMAE, T. - NAGAJ, Daniel - SCHUCH, N. Quantum proofs can be verified using only single-qubit measurements. In *Physical Review A*, 2016, vol. 93, no. 2, art. no. 022326. (2015: 2.765 - IF, Q1 - JCR, 1.747 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.93.022326>
- Citácie:
1. [1.1] FAISAL, Islam. Interactive Oracle Arguments in the QROM and Applications to Succinct Verification of Quantum Computation. In *TOPICS IN CRYPTOLOGY, CT-RSA 2024 : Cryptographer's Track at the RSA Conference (CT-RSA)*, 2024, vol. 14643, no., pp. 404-429. ISSN 0302-9743. Dostupné na: https://doi.org/10.1007/978-3-031-58868-6_16, Registrované v: WOS
2. [1.1] STRICKER, Roman - CARRASCO, Jose - RINGBAUER, Martin - POSTLER, Lukas - METH, Michael - EDMUNDS, Claire - SCHINDLER, Philipp - BLATT, Rainer - ZOLLER, Peter - KRAUS, Barbara - MONZ, Thomas. Towards experimental classical verification of quantum computation. In *QUANTUM SCIENCE AND TECHNOLOGY*, 2024, vol. 9, no. 2, art. no. 02LT01. ISSN 2058-9565. Dostupné na: <https://doi.org/10.1088/2058-9565/ad2986>, Registrované v: WOS
3. [1.1] TAKEUCHI, Yuki. Catalytic Transformation from Computationally Universal to Strictly Universal Measurement-Based Quantum Computation. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 5, art. no. 050601. ISSN

0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.050601>,

Registrované v: WOS

- ADCA607 MOSER, Zbigniew - ŠEBO, Pavol - GAŚIOR, Władisław - ŠVEC, Peter - PSTRUŚ, Janusz. Effect of indium on wettability of Sn-Ag-Cu solders. Experiment vs. modeling, Part I. In CALPHAD: Computer Coupling of Phase Diagrams and Thermochemistry, 2009, vol. 33, no. 1, p. 63-68. (2008: 1.530 - IF, Q1 - JCR, 1.220 - SJR, Q1 - SJR). ISSN 0364-5916. Dostupné na: <https://doi.org/10.1016/j.calphad.2008.10.001>

Citácie:

1. [1.1] CHANG, C.C.B. - KAO, C.R. Phase Equilibria of the Binary Ag-In System. In JOURNAL OF PHASE EQUILIBRIA AND DIFFUSION. ISSN 1547-7037, AUG 2024, vol. 45, no. 4, p. 790-803. Dostupné na:

<https://doi.org/10.1007/s11669-024-01133-8>, Registrované v: WOS

2. [1.1] WANG, Z.D. - YANG, J.J. - YAN, J.K. - WANG, B. - LENG, C.Y. - ZHAO, L.Y. Effect of Co on microstructure evolution and thermal fatigue stability of lead-free solder alloys of SACBSN series. In MICROELECTRONICS RELIABILITY. ISSN 0026-2714, JUN 2024, vol. 157. Dostupné na:

<https://doi.org/10.1016/j.microrel.2024.115395>, Registrované v: WOS

- ADCA608 MOVASSAGH, R. - FARHI, E. - GOLDSTONE, J. - NAGAJ, Daniel - OSBORNE, T.J. - SHOR, P.W. Unfrustrated qudit chains and their ground states. In Physical Review A, 2010, vol. 82, no. 1, art. no. 012318. (2009: 2.866 - IF, Q2 - JCR, 2.469 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.82.012318>

Citácie:

1. [1.1] MOUDGALYA, Sanjay - MOTRUNICH, Olexei I. Exhaustive Characterization of Quantum Many-Body Scars Using Commutant Algebras. In PHYSICAL REVIEW X, 2024, vol. 14, no. 4, art. no. 041069. ISSN 2160-3308. Dostupné na: <https://doi.org/10.1103/PhysRevX.14.041069>, Registrované v: WOS

2. [1.1] MOUDGALYA, Sanjay - MOTRUNICH, Olexei I. Symmetries as Ground States of Local Superoperators: Hydrodynamic Implications. In PRX QUANTUM, 2024, vol. 5, no. 4, art. no. 040330. Dostupné na:

<https://doi.org/10.1103/PRXQuantum.5.040330>, Registrované v: WOS

- ADCA609 MRAFKO, Peter - DUHAJ, Pavol - ŠVEC, Peter. Crystallization of metastable phases in the Pd₈₃Si₁₇ amorphous alloy. In Journal of Non-Crystalline Solids, 2006, vol. 352, no. 50-51, p. 5284-5286. (2005: 1.264 - IF, Q1 - JCR, 1.003 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, SCOPUS). ISSN 0022-3093. Dostupné na: <https://doi.org/10.1016/j.jnoncrysol.2006.08.021>

Citácie:

1. [1.1] YU, Bingjiao - ZHAO, Rui - LU, Zhen - SU, Hangbo - LIANG, Binye - LIU, Bingjie - MA, Chunlan - ZHU, Yan - LI, Zian. Thermal Stability and Crystallization Processes of Pd₇₈Au₄Si₁₈ Thin Films Visualized via In Situ TEM. In NANOMATERIALS, 2024, vol. 14, no. 7, art. no. 635. Dostupné na:

<https://doi.org/10.3390/nano14070635>, Registrované v: WOS

- ADCA610 MRKÝVKOVÁ, Nad'a, Tesařová** - HODAS, M. - HAGARA, Jakub - NÁDAŽDY, Peter - HALAHOVETS, Yuriy - BODIK, Michal - TOKÁR, Kamil - CHAI, J. W. - WANG, S. J. - CHI, D. Z. - CHUMAKOV, A. - KONOVALOV, O. - HINDERHOFER, A. - JERGEL, Matej - MAJKOVÁ, Eva - ŠIFFALOVIČ, Peter - SCHREIBER, F. Diindenoperylene thin-film structure on MoS₂ monolayer. In Applied Physics Letters, 2019, vol. 114, no. 25, art. no. 251906. (2018: 3.521 - IF, Q1 - JCR, 1.331 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/1.5100282>

Citácie:

1. [1.1] BARTLAM, Cian - SAIGAL, Nihit - HEISERER, Stefan - LAMBERS, Hendrik - WURSTBAUER, Ursula - DUESBERG, Georg S. Orientation Dependent Interlayer Coupling in Organic-Inorganic Heterostructures. In *ADVANCED FUNCTIONAL MATERIALS*, 2024, vol. 34, no. 28. ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202315302>, Registrované v: WOS

ADCA611 MRKÝVKOVÁ, Nad'a, Tesařová** - NÁDAŽDY, Peter - HODAS, Martin - CHAI, J. - WANG, S. - CHI, D. - SOJKOVÁ, Michaela - HULMAN, Martin - CHUMAKOV, A. - KONOVALOV, O. - HINDERHOFER, A. - JERGEL, Matej - MAJKOVÁ, Eva - ŠIFFALOVÍČ, Peter - SCHREIBER, F. Simultaneous monitoring of molecular thin film morphology and crystal structure by x-ray scattering. In *Crystal Growth & Design*, 2020, vol. 20, no. 8, p. 5269-5276. (2019: 4.089 - IF, Q1 - JCR, 1.004 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1528-7483. Dostupné na: <https://doi.org/10.1021/acs.cgd.0c00448>

Citácie:

1. [1.1] SONG, Shuqing - LIU, Qi - SWATHILAKSHMI, S. - CHI, Heng-Yu - ZHOU, Zongyao - GOSWAMI, Ranadip - CHERNYSHOV, Dmitry - AGRAWAL, Kumar Varoon. High-performance H₂/CO₂ separation from 4-nm-thick oriented Zn₂(benzimidazole)₄ films. In *SCIENCE ADVANCES*, 2024, vol. 10, no. 50, art. no. eads6315. ISSN 2375-2548. Dostupné na:

<https://doi.org/10.1126/sciadv.ads6315>, Registrované v: WOS

ADCA612 MRKÝVKOVÁ, Nad'a, Tesařová** - HELD, Vladimír* - NÁDAŽDY, Peter - SUBAIR, Riyas - MAJKOVÁ, Eva - JERGEL, Matej - VLK, Aleš - LEDINSKÝ, Martin - KOTLÁR, Mário - TIAN, Jianjun - ŠIFFALOVÍČ, Peter. Combined in situ photoluminescence and X-ray scattering reveals defect formation in Lead-Halide Perovskite films. In *Journal of Physical Chemistry Letters*, 2021, vol. 12, no. 41, p. 10156-10162. (2020: 6.475 - IF, Q1 - JCR, 2.563 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1948-7185. Dostupné na: <https://doi.org/10.1021/acs.jpcclett.1c02869>

Citácie:

1. [1.1] BYSTRICKY, Roman - TIWARI, Sameer Kumar - HUTAR, Peter - SYKORA, Milan. Thermal Stability of Chalcogenide Perovskites. In *INORGANIC CHEMISTRY*, 2024, vol., no. ISSN 0020-1669. Dostupné na:

<https://doi.org/10.1021/acs.inorgchem.4c01308>, Registrované v: WOS

2. [1.1] GAO, Jie - FEI, Fei - XU, Yibo - WANG, Shubo - LI, Yue - DU, Kaihuai - SUN, Huina - DONG, Xu - YUAN, Ningyi - LI, Lvzhou - DING, Jianning. Collaborative Fabrication of High-Quality Perovskite Films for Efficient Solar Modules through Solvent Engineering and Vacuum Flash System. In *ACS APPLIED MATERIALS & INTERFACES*, 2024, vol. 16, no. 29, pp. 38017-38027. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.4c06014>, Registrované v: WOS

3. [1.1] LV, Hongyan - SUN, Qin jun - ZHAO, Jian - ZHANG, Chenxi - HAO, Yuying - QIN, Wei. Collaboration of SnO₂:PAN NWs and BABr enable high-performance flexible perovskite solar cells. In *CHEMICAL ENGINEERING JOURNAL*, 2024, vol. 496, no., art. no. 153945. ISSN 1385-8947. Dostupné na: <https://doi.org/10.1016/j.cej.2024.153945>, Registrované v: WOS

4. [1.1] MERTEN, Lena - EBERLE, Timo - KNESCHAUREK, Ekaterina - SCHEFFCZYK, Niels - ZIMMERMANN, Paul - ZALUZHNYI, Ivan - KHADIEV, Azat - BERTRAM, Florian - PAULUS, Fabian - HINDERHOFER, Alexander - SCHREIBER, Frank. Halide Segregated Crystallization of Mixed-Halide Perovskites Revealed by In Situ GIWAXS. In *ACS APPLIED MATERIALS & INTERFACES*, 2024, vol. 16, no. 7, pp. 8913-8921. ISSN 1944-8244. Dostupné

na: <https://doi.org/10.1021/acsami.3c18623>, Registrované v: WOS

5. [1.1] REUS, Manuel A. - BAIER, Thomas - LINDENMEIR, Christoph G. - WEINZIERL, Alexander F. - BUYAN-ARIVJIKH, Altantulga - WEGENER, Simon A. - KOSBAHN, David P. - REB, Lennart K. - RUBECK, Jan - SCHWARTZKOPF, Matthias - ROTH, Stephan V. - MUELLER-BUSCHBAUM, Peter. Modular slot-die coater for in situ grazing-incidence x-ray scattering experiments on thin films. In REVIEW OF SCIENTIFIC INSTRUMENTS, 2024, vol. 95, no. 4, art. no. 043907. ISSN 0034-6748. Dostupné na: <https://doi.org/10.1063/5.0204673>, Registrované v: WOS

6. [1.1] WANG, Jinjiang - WANG, Dongjie - XU, Dang - ZHANG, Yang - HUANG, Tianhuan - ZHANG, Doudou - ZHANG, Zheling - XIONG, Jian - HUANG, Yu - ZHANG, Jian. Defect management and crystallization regulation for high-efficiency carbon-based printable mesoscopic perovskite solar cells via a single organic small molecule. In JOURNAL OF MATERIALS CHEMISTRY A, 2024, vol. 12, no. 48, pp. 33595-33605. ISSN 2050-7488. Dostupné na: <https://doi.org/10.1039/d4ta06877g>, Registrované v: WOS

7. [1.1] WITT, Christina - SCHOTZ, Konstantin - KOHLER, Anna - PANZER, Fabian. Understanding Method-Dependent Differences in Urbach Energies in Halide Perovskites. In JOURNAL OF PHYSICAL CHEMISTRY C, 2024, vol. 128, no. 15, pp. 6336-6345. ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.3c07293>, Registrované v: WOS

8. [1.2] LI, Kangning - ZHANG, Chenxi - ZHAO, Min - REN, Jingkun - LI, Shiqi - HAO, Yuying. Perovskite Crystallization Regulation via Antimonene Quantum Sheets for Highly Efficient and Stable Solar Cells. In ACS Applied Materials and Interfaces, 2024-01-10, 16, 1, pp. 655-668. ISSN 19448244. Dostupné na: <https://doi.org/10.1021/acsami.3c14530>, Registrované v: SCOPUS

ADCA613 MÚDRA, Erika** - SHEPA, Ivan - MILKOVIČ, Ondrej - DANKOVÁ, Zuzana - KOVALČÍKOVÁ, Alexandra - HVIZDOŠOVÁ, Adriana, Annušová - MAJKOVÁ, Eva - DUSZA, Ján. Effect of iron doping on the properties of SnO₂ nano/microfibers. In Applied Surface Science, 2019, vol. 480, p. 876-881. (2018: 5.155 - IF, Q1 - JCR, 1.115 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2019.03.041>

Citácie:

1. [1.1] DA SILVA, L.F. - LUCCHINI, M.A. - CATTO, A.C. - AVANSI, WA Jr - BERNARDINI, S. - AGUIR, K. - NIEDERBERGER, M. - LONGO, E. The Role of Zn Ions in the Structural, Surface, and Gas-Sensing Properties of SnO₂:Zn Nanocrystals Synthesized via a Microwave-Assisted Route. In SENSORS. JAN 2024, vol. 24, no. 1. Dostupné na: <https://doi.org/10.3390/s24010140>, Registrované v: WOS

ADCA614 MÜLLER-GATERMANN, C.** - DEWALD, A. - FRANSEN, C. - AURANEN, K. - BADRAN, H. - BECKERS, M. - BLAZHEV, A. - BRAUNROTH, T. - CULLEN, D. M. - FRUET, G. - GOLDKUHLE, A. - GRAHN, T. - GREENLEES, P. T. - HERZÁŇ, Andrej - JAKOBSSON, U. - JENKINS, D. - JOLIE, J. - JULIN, R. - JUUTINEN, S. - KONKI, J. - LEINO, M. - LITZINGER, J. - NOMURA, K. - PAKARINEN, J. - PEURA, P. - PROCTER, M. G. - RAHKILA, P. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - SCHOLEY, C. - SORRI, J. - STOLZE, S. - TAYLOR, M. J. - UUSITALO, J. - ZELL, K. O. Shape coexistence in Hg-178. In Physical Review C, 2019, vol. 99, no. 5, art. no. 054325. (2018: 3.132 - IF, Q2 - JCR, 1.502 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.99.054325>

Citácie:

1. [1.1] BHUSHAN, Ravi - PANDEY, Anand - ROHILLA, Aman - KUMAR, A. - GOVIL, I. M. - CHAMOLI, S. K. Lifetime measurements in the yrast band of SUP187/SUPHg. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 6, art. no. 065308. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad48ca>, Registrované v: WOS

2. [1.1] LEONI, S. - FORNAL, B. - BRACCO, A. - TSUNODA, Y. - OTSUKA, T. Multifaceted character of shape coexistence phenomena in atomic nuclei. In *PROGRESS IN PARTICLE AND NUCLEAR PHYSICS*, 2024, vol. 139, no., art. no. 104119. ISSN 0146-6410. Dostupné na: <https://doi.org/10.1016/j.ppnp.2024.104119>, Registrované v: WOS

3. [1.2] PRASSA, V. - KARAKATSANIS, K. E. Covariant density functional description of shape phase transitions and shape coexistence in heavy nuclei. In *Hnps Advances in Nuclear Physics*, 2024-01-01, 30, pp. 75-84. ISSN 2654007X. Dostupné na: <https://doi.org/10.12681/hnpsanp.6284>, Registrované v: SCOPUS

ADCA615 MÜLLEROVÁ, J. - KAISER, Michal - NÁDAŽDY, Vojtech - ŠIFFALOVIČ, Peter - MAJKOVÁ, Eva. Optical absorption study of P3HT:PCBM blend photo-oxidation for bulk heterojunction solar cells. In *Solar Energy*, 2016, vol. 134, p. 294-301. (2015: 3.685 - IF, Q1 - JCR, 1.912 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0038-092X. Dostupné na: <https://doi.org/10.1016/j.solener.2016.05.009>

Citácie:

1. [1.1] EL-KHALAWANY, L. M. - ZIDAN, T. A. - ZEDAN, I. T. - EL-MENYAWY, E. M. PbS QDs and rGO-decorated PbS QDs induced optical properties variations on P3HT:PC61BM composite thin films. In *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING*, 2024, vol. 130, no. 4, art. no. 216. ISSN 0947-8396. Dostupné na: <https://doi.org/10.1007/s00339-024-07333-w>, Registrované v: WOS

2. [1.1] HU, Jiaji - KAN, Lixuan - XIE, Yongchao - ZHU, Xixiang - YU, Haomiao - LI, Jinpeng - ZHANG, Fujun - DUAN, Wubiao - WANG, Kai. Exploring photoexcited spin states for fullerene-derivatives based organic bulk heterojunction solar cells using magneto-photocurrent. In *APPLIED PHYSICS LETTERS*, 2024, vol. 124, no. 8, art. no. 083502. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0187765>, Registrované v: WOS

3. [1.1] JHUMA, Farjana Akter - HARADA, Kentaro - MISRAN, Muhamad Affiq Bin - MO, Hin-Wai - FUJIMOTO, Hiroshi - HATTORI, Reiji. The Light Wavelength, Intensity, and Biasing Voltage Dependency of the Dark and Photocurrent Densities of a Solution-Processed P3HT:PC61BM Photodetector for Sensing Applications. In *NANOMATERIALS*, 2024, vol. 14, no. 18, art. no. 1496. Dostupné na: <https://doi.org/10.3390/nano14181496>, Registrované v: WOS

4. [1.1] KOLBOW, Ana Clarissa Henrique - RAMBO, Everton Crestani - DOS SANTOS, Maria Ruth Neponucena - MARCHEZI, Paulo Ernesto - NOGUEIRA, Ana Flavia - MARLETTA, Alexandre - RAMOS, Romildo Jeronimo - THEREZIO, Eralci Moreira. Emission Ellipsometry Study in Polymeric Interfaces Based on Poly(3-Hexylthiophene), [6,6]-Phenyl-C61-Butyric Acid Methyl Ester, and Reduced Graphene Oxide. In *C-JOURNAL OF CARBON RESEARCH*, 2024, vol. 10, no. 3, art. no. 83. Dostupné na: <https://doi.org/10.3390/c10030083>, Registrované v: WOS

5. [1.1] KUSUMANCHI, Pratik - KELLER, Stephan Sylvest - DAVIDSEN, Rasmus Schmidt. Developments in the design and microfabrication of photovoltaic retinal implants. In *MICRO AND NANO ENGINEERING*, 2024, vol. 25, no., art. no. 100289. Dostupné na: <https://doi.org/10.1016/j.mne.2024.100289>,

Registrované v: WOS

6. [1.1] MIR, Aaqib M. - BASHIR, Faisal - KHANDAY, Farooq Ahmad - ZAHOOOR, Furqan - HANIF, Mehwish - MAY, Zazilah. Design and Optimization of High Performance P3HT: PCBM Polymer Solar Cell Using P3HT Buffer Layer. In IEEE ACCESS, 2024, vol. 12, no., pp. 10961-10969. ISSN 2169-3536.

Dostupné na: <https://doi.org/10.1109/ACCESS.2024.3354163>, Registrované v: WOS

7. [1.1] THAMEEL, Mahir N. - DAWOOD, Omar M. - HADAWI, Zainab S. - ALI, Alaa Y. Enhancing Performance in P3HT:ICBA Organic Photovoltaics through IR Photon Harvesting with DIBS_q Squaraine Dye. In BRAZILIAN JOURNAL OF PHYSICS, 2024, vol. 54, no. 3, art. no. 76. ISSN 0103-9733. Dostupné na:

<https://doi.org/10.1007/s13538-024-01454-6>, Registrované v: WOS

8. [1.2] BALU, Rajkamal - TRAN, Tuan Sang - MATA, Jitendra P. - DE CAMPO, Liliana - DUTTA, Naba K. - CHOUDHURY, Namita Roy. A SANS investigation of silk-stabilized aqueous poly(3-hexylthiophene): phenyl-C61-butyric acid methyl ester nanoparticle dispersions. In Next Nanotechnology, 2024-01-01, 5, pp.

Dostupné na: <https://doi.org/10.1016/j.nxnano.2024.100066>, Registrované v: SCOPUS

- ADCA616 MUTTALIB, K.A. - MARKOŠ, Peter - WOLFLE, P. Conductance distribution in strongly disordered mesoscopic systems in three dimensions. In Physical Review B, 2005, vol. 72, no. 12, art. no. 125317. (2004: 3.075 - IF, karentované - CCC). (2005 - Current Contents). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.72.125317>

Citácie:

1. [1.1] KAYA, Tuncer. Aubry-Andre-Harper model: multifractality analysis versus Landauer conductance for quasicrystal chains. In INDIAN JOURNAL OF PHYSICS, 2024, vol. 98, no. 2, pp. 489-496. ISSN 0973-1458. Dostupné na:

<https://doi.org/10.1007/s12648-023-02810-z>, Registrované v: WOS

- ADCA617 NÁDAŽDY, Vojtech - YAKUSHEV, M. - DJEBBAR, E.H. - HILL, A.E. - TOMLINSON, R.D. Switching of deep levels in CuInSe₂ due to electric field-induced Cu ion migration. In Journal of Applied Physics, 1998, vol. 84, no. 8, p. 4322-4326. (1997: 1.630 - IF, karentované - CCC). (1998 - Current Contents, SCOPUS). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/1.368651>

Citácie:

1. [1.1] VAAS, T. S. - PIETERS, B. E. - ROOSEN-MELEN, D. - VAN DEN NIEUWENHOF, M. - KINGMA, A. - THEELEN, M. - ZAHREN, C. - GERBER, A. - RAU, U. Light induced degradation of CIGS solar cells. In SOLAR ENERGY MATERIALS AND SOLAR CELLS, 2024, vol. 275, no., art. no. 113036. ISSN 0927-0248. Dostupné na: <https://doi.org/10.1016/j.solmat.2024.113036>, Registrované v: WOS

- ADCA618 NÁDAŽDY, Vojtech - GMUCOVÁ, Katarína** - NÁDAŽDY, Peter - ŠIFFALOVÍČ, Peter - VÉGSÖ, Karol - JERGEL, Matej - SCHAUER, František - MAJKOVÁ, Eva. Thickness effect on structural defect-related density of states and crystallinity in P3HT thin films on ITO substrates. In Journal of Physical Chemistry C, 2018, vol. 122, no. 11, p. 5881-5887. (2017: 4.484 - IF, Q1 - JCR, 2.135 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.7b11651>

Citácie:

1. [1.1] BEDNARSKI, Henryk - ISMAIL, Ayman A. A. - GODZIERZ, Marcin - MARCINKOWSKI, Andrzej - KHAN, Muhammad Raheel - JARZABEK, Bożena - HAJDUK, Barbara - KUMARI, Pallavi. Nanostructure-Dependent Electrical Conductivity Model Within the Framework of the Generalized Effective Medium

Theory Applied to Poly(3-hexyl)thiophene Thin Films. In *POLYMERS*, 2024, vol. 16, no. 22, art. no. 3227. Dostupné na: <https://doi.org/10.3390/polym16223227>, Registrované v: WOS

2. [1.1] SEIFRID, Martin - KARKI, Akchheta - WAKIDI, Hiba - VEZIN, Herve - WELTON, Claire - BAZAN, Guillermo C. - CHMELKA, Bradley F. - NGUYEN, Thuc-Quyen - REDDY, G. N. Manjunatha. Importance of Short-Range Order in Governing Thin Film Morphology and Electronic Properties of Polymeric Organic Semiconductors. In *CHEMISTRY OF MATERIALS*, 2024, vol. 36, no. 3, pp. 1214-1227. ISSN 0897-4756. Dostupné na:

<https://doi.org/10.1021/acs.chemmater.3c01931>, Registrované v: WOS

ADCA619

NÁDAŽDY, Vojtech - SCHAUER, F. - GMUCOVÁ, Katarína. Energy resolved electrochemical impedance spectroscopy for electronic structure mapping in organic semiconductors. In *Applied Physics Letters*, 2014, vol. 105, no. 14, art. no. 142109. (2013: 3.515 - IF, Q1 - JCR, 2.149 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0003-6951. Dostupné na:

<https://doi.org/10.1063/1.4898068>

Citácie:

1. [1.1] ALAM, Shahidul - PETOUKHOFF, Christopher E. - JURADO, Jose P. - ALDOSARI, Haya - JIANG, Xinyu - VARY, Tomas - AL NASSER, Hamza - DAHMAN, Amr - ALTHOBAITI, Wejdan - LOPEZ, Sandra P. Gonzalez - ALSUFYANI, Wejdan - MUELLER-BUSCHBAUM, Peter - NADAZDY, Vojtech - HOPPE, Harald - LAQUAI, Frederic. Influence of thermal annealing on microstructure, energetic landscape and device performance of P3HT:PCBM-based organic solar cells. In *JOURNAL OF PHYSICS-ENERGY*, 2024, vol. 6, no. 2, art. no. 025013. ISSN 2515-7655. Dostupné na: <https://doi.org/10.1088/2515-7655/ad2498>, Registrované v: WOS

2. [1.1] HALLOCK, Claire D. - ROSE, Michael J. Electrochemical Impedance of Well-Passivated Semiconductors Reveals Bandgaps, Fermi Levels, and Interfacial Density of States. In *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*, 2024, vol. 146, no. 28, pp. 18989-18998. ISSN 0002-7863. Dostupné na: <https://doi.org/10.1021/jacs.4c02738>, Registrované v: WOS

3. [1.1] KASHANI, Somayeh - RECH, Jeromy James - LIU, Tuo - BAUSTERT, Kyle - GHAFARI, Abbas - ANGUNAWELA, Indunil - XIONG, Yuan - DINKU, Abay - YOU, Wei - GRAHAM, Kenneth - ADE, Harald. Exciton Binding Energy in Organic Polymers: Experimental Considerations and Tuning Prospects. In *ADVANCED ENERGY MATERIALS*, 2024, vol. 14, no. 6. ISSN 1614-6832. Dostupné na: <https://doi.org/10.1002/aenm.202302837>, Registrované v: WOS

4. [1.1] ROCABRUNO-VALDES, C. I. - UGALDE-SALDIVAR, Victor M. - VALENCIA-GARCIA, Karen - HERNANDEZ-GORDILLO, Agileo - RODIL, Sandra Elizabeth. Exploring the electronic structure of BiVO₄ thin films using energy-resolved electrochemical impedance spectroscopy. In *MATERIALS LETTERS*, 2024, vol. 357, no., art. no. 135741. ISSN 0167-577X. Dostupné na: <https://doi.org/10.1016/j.matlet.2023.135741>, Registrované v: WOS

5. [1.1] ZHOU, Xuehua - CHEN, Yushu - LI, Qingxia - YANG, Shixing - HAN, Chao. A novel method for interfacial energy gap determination. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 16919. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-67987-7>, Registrované v: WOS

6. [1.2] TOKMOLDIN, Nurlan - DEIBEL, Carsten - NEHER, Dieter - SHOAEE, Safa. Contemporary Impedance Analyses of Archetypical PM6:Y6 Bulk-Heterojunction Blend. In *Advanced Energy Materials*, 2024-07-19, 14, 27, pp. ISSN 16146832. Dostupné na: <https://doi.org/10.1002/aenm.202401130>, Registrované v: SCOPUS

- ADCA620 NAGAJ, D. - ŠTELMACHOVIČ, Peter - BUŽEK, Vladimír - KIM, M.S. Quantum homogenization for continuous variables: Realization with linear optical elements. In Physical Review A, 2002, vol. 66, no. 6, art. no. 062307. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.66.062307>
Citácie:
1. [1.1] YOSIFOV, Alexander - IYER, Aditya - EBLER, Daniel - VEDRAL, Vlatko. Quantum homogenization as a quantum steady-state protocol on noisy intermediate-scale quantum hardware. In PHYSICAL REVIEW A, 2024, vol. 109, no. 3, art. no. 032624. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.032624>, Registrované v: WOS
- ADCA621 NAGAJ, Daniel - WOCJAN, P. Hamiltonian quantum cellular automata in one dimension. In Physical Review A, 2008, vol. 78, no. 3, art. no. 032311. (2007: 2.893 - IF, Q1 - JCR, 2.524 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.78.032311>
Citácie:
1. [1.1] WANG, Dong-Sheng. Universal quantum computing models: a perspective of resource theory. In ACTA PHYSICA SINICA, 2024, vol. 73, no. 22, art. no. 220302. ISSN 1000-3290. Dostupné na: <https://doi.org/10.7498/aps.73.20240893>, Registrované v: WOS
- ADCA622 NAGAJ, Daniel. Universal two-body-Hamiltonian quantum computing. In Physical Review A, 2012, vol. 85, no. 3, art. no. 032330. (2011: 2.878 - IF, Q1 - JCR, 2.316 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.85.032330>
Citácie:
1. [1.1] WANG, Dong-Sheng. Universal quantum computing models: a perspective of resource theory. In ACTA PHYSICA SINICA, 2024, vol. 73, no. 22, art. no. 220302. ISSN 1000-3290. Dostupné na: <https://doi.org/10.7498/aps.73.20240893>, Registrované v: WOS
- ADCA623 NAGAJ, Daniel - WOCJAN, P. - ZHANG, Y. Fast amplification of QMA. In Quantum Information and Computation, 2009, vol. 9, no. 11-12, p. 1053-1068. ISSN 1533-7146.
Citácie:
1. [1.1] DALZELL, Alexander M. - HUNTER-JONES, Nicholas - BRANDAO, Fernando G. S. L. Random Quantum Circuits Transform Local Noise into Global White Noise. In COMMUNICATIONS IN MATHEMATICAL PHYSICS, 2024, vol. 405, no. 3, art. no. 78. ISSN 0010-3616. Dostupné na: <https://doi.org/10.1007/s00220-024-04958-z>, Registrované v: WOS
2. [1.1] SAKUMA, Rei - KANNO, Shu - SUGISAKI, Kenji - ABE, Takashi - YAMAMOTO, Naoki. Entanglement-assisted phase-estimation algorithm for calculating dynamical response functions. In PHYSICAL REVIEW A, 2024, vol. 110, no. 2, art. no. 022618. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.022618>, Registrované v: WOS
- ADCA624 NAGAJ, Daniel. Fast universal quantum computation with railroad-switch local Hamiltonians. In Journal of Mathematical Physics, 2010, vol. 51, no. 6, art. no. 062201. (2009: 1.318 - IF, Q3 - JCR, 0.829 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0022-2488. Dostupné na: <https://doi.org/10.1063/1.3384661>
Citácie:
1. [1.1] ANSHU, Anurag - BREUCKMANN, Nikolas P. - NGUYEN, Quynh T. Circuit-to-Hamiltonian from Tensor Networks and Fault Tolerance. In PROCEEDINGS OF THE 56TH ANNUAL ACM SYMPOSIUM ON THEORY OF

COMPUTING, STOC 2024 : 56th Annual ACM Symposium on Theory of Computing (STOC), 2024, vol., no., pp. 585-595. ISSN 0737-8017. Dostupné na: <https://doi.org/10.1145/3618260.3649690>, Registrované v: WOS

ADCA625 NAKAJIMA, T.** - DELBECQ, M.R. - OTSUKA, T. - STAÑO, Peter - AMAHA, S. - YONEDA, J. - NOIRI, A. - KAWASAKI, K. - TAKEDA, K. - ALLISON, G. - LUDWIG, A. - WIECK, A.D. - LOSS, D. - TARUCHA, S.**. Robust single-shot spin measurement with 99.5% fidelity in a quantum dot array. In Physical Review Letters, 2017, vol. 119, no. 1, art. no. 017701. (2016: 8.462 - IF, Q1 - JCR, 4.196 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.119.017701>

Citácie:

1. [1.1] HARRIS, Vincent G. - ANDALIB, Parisa. Modern quantum materials. In FRONTIERS IN MATERIALS, 2024, vol. 11, no., art. no. 1343005. ISSN 2296-8016. Dostupné na: <https://doi.org/10.3389/fmats.2024.1343005>, Registrované v: WOS

2. [1.1] KIYAMA, Haruki - VAN HIEN, Danny - LUDWIG, Arne - WIECK, Andreas D. - OIWA, Akira. High-fidelity spin readout via the double latching mechanism. In NPJ QUANTUM INFORMATION, 2024, vol. 10, no. 1, art. no. 95. Dostupné na: <https://doi.org/10.1038/s41534-024-00882-1>, Registrované v: WOS

3. [1.1] LLUSAR, Jordi - CLIMENTE, Juan I. Trions Stimulate Electronic Coupling in Colloidal Quantum Dot Molecules. In CHEMISTRY OF MATERIALS, 2024, vol. 36, no. 23, pp. 11676-11683. ISSN 0897-4756. Dostupné na: <https://doi.org/10.1021/acs.chemmater.4c02809>, Registrované v: WOS

4. [1.1] POWER, Conor - STASZEWSKI, Robert Bogdan - BLOKHINA, Elena. Charge-Based Single-Shot Readout Systems in Quantum Computing. In IEEE CIRCUITS AND SYSTEMS MAGAZINE, 2024, vol. 24, no. 4, pp. 42-64. ISSN 1531-636X. Dostupné na: <https://doi.org/10.1109/MCAS.2024.3401618>, Registrované v: WOS

5. [1.1] SONG, Younguk - YUN, Jonginn - KIM, Jehyun - JANG, Wonjin - JANG, Hyeongyu - PARK, Jaemin - CHO, Min-Kyun - SOHN, Hanseo - USAMI, Noritaka - MIYAMOTO, Satoru - ITOH, Kohei M. - KIM, Dohun. Coherence of a field gradient driven singlet-triplet qubit coupled to multielectron spin states in SUP28/SUPSi/SiGe. In NPJ QUANTUM INFORMATION, 2024, vol. 10, no. 1, art. no. 77. Dostupné na: <https://doi.org/10.1038/s41534-024-00869-y>, Registrované v: WOS

6. [1.2] POWER, Conor - STASZEWSKI, Robert Bogdan - BLOKHINA, Elena. Charge-Based Single-Shot Readout Systems in Quantum Computing [Feature]. In IEEE Circuits and Systems Magazine, 2024-01-01, 24, 4, pp. 42-64. ISSN 1531636X. Dostupné na: <https://doi.org/10.1109/MCAS.2024.3401618>, Registrované v: SCOPUS

7. [1.2] SONG, Younguk - YUN, Jonginn - KIM, Jehyun - JANG, Wonjin - JANG, Hyeongyu - PARK, Jaemin - CHO, Min Kyun - SOHN, Hanseo - USAMI, Noritaka - MIYAMOTO, Satoru - ITOH, Kohei M. - KIM, Dohun. Coherence of a field gradient driven singlet-triplet qubit coupled to multielectron spin states in 28Si/SiGe. In Npj Quantum Information, 2024-12-01, 10, 1, pp. Dostupné na: <https://doi.org/10.1038/s41534-024-00869-y>, Registrované v: SCOPUS

ADCA626 NAKAJIMA, Takashi** - NOIRI, Akito* - KAWASAKI, Kento - YONEDA, Jun - STAÑO, Peter - AMAHA, Shinichi - OTSUKA, Tomohiro - TAKEDA, Kenta - DELBECQ, Matthieu R. - ALLISON, Giles - LUDWIG, Arne - WIECK, Andreas D.* - LOSS, Daniel - TARUCHA, Seigo**. Coherence of a Driven Electron Spin Qubit Actively Decoupled from Quasistatic Noise. In Physical Review X, 2020, vol. 10, no. 1, art. no. 011060. (2019: 12.577 - IF, Q1 - JCR, 7.458 - SJR, Q1 - SJR,

karentované - CCC). (2020 - Current Contents). ISSN 2160-3308. Dostupné na:
<https://doi.org/10.1103/PhysRevX.10.011060>

Citácie:

1. [1.1] BENESTAD, Jacob - KRZYWDA, Jan A. - VAN NIEUWENBURG, Evert - DANON, Jeroen. Efficient adaptive Bayesian estimation of a slowly fluctuating Overhauser field gradient. In *SCIPOST PHYSICS*, 2024, vol. 17, no. 1, art. no. 014. ISSN 2542-4653. Dostupné na:

<https://doi.org/10.21468/SciPostPhys.17.1.014>, Registrované v: WOS

2. [1.1] BERRITTA, Fabrizio - KRZYWDA, Jan A. - BENESTAD, Jacob - VAN DER HEIJDEN, Joost - FEDELE, Federico - FALLAHI, Saeed - GARDNER, Geoffrey C. - MANFRA, Michael J. - VAN NIEUWENBURG, Evert - DANON, Jeroen - CHATTERJEE, Anasua - KUEMMETH, Ferdinand. Physics-informed tracking of qubit fluctuations. In *PHYSICAL REVIEW APPLIED*, 2024, vol. 22, no. 1, art. no. 014033. ISSN 2331-7019. Dostupné na:

<https://doi.org/10.1103/PhysRevApplied.22.014033>, Registrované v: WOS

3. [1.1] BERRITTA, Fabrizio - RASMUSSEN, Torbjorn - KRZYWDA, Jan A. - VAN DER HEIJDEN, Joost - FEDELE, Federico - FALLAHI, Saeed - GARDNER, Geoffrey C. - MANFRA, Michael J. - VAN NIEUWENBURG, Evert - DANON, Jeroen - CHATTERJEE, Anasua - KUEMMETH, Ferdinand. Real-time two-axis control of a spin qubit. In *NATURE COMMUNICATIONS*, 2024, vol. 15, no. 1, art. no. 1676. Dostupné na: <https://doi.org/10.1038/s41467-024-45857-0>, Registrované v: WOS

4. [1.1] GARREIS, Rebekka - TONG, Chuyao - TERLE, Jocelyn - RUCKRIEGEL, Max Josef - GERBER, Jonas Daniel - GACHTER, Lisa Maria - WATANABE, Kenji - TANIGUCHI, Takashi - IHN, Thomas - ENSSLIN, Klaus - HUANG, Wei Wister. Long-lived valley states in bilayer graphene quantum dots. In *NATURE PHYSICS*, 2024, vol., no. ISSN 1745-2473. Dostupné na:

<https://doi.org/10.1038/s41567-023-02334-7>, Registrované v: WOS

5. [1.1] HENDRICKX, N. W. - MASSAI, L. - MERGENTHALER, M. - SCHUPP, F. J. - PAREDES, S. - BEDELL, S. W. - SALIS, G. - FUHRER, A. Sweet-spot operation of a germanium hole spin qubit with highly anisotropic noise sensitivity. In *NATURE MATERIALS*, 2024, vol. 23, no. 7, art. no. s41563-024-01857-5. ISSN 1476-1122. Dostupné na: <https://doi.org/10.1038/s41563-024-01857-5>, Registrované v: WOS

6. [1.1] LIU, Xiao-Fei - MATSUMOTO, Yuta - FUJITA, Takafumi - LUDWIG, Arne - WIECK, Andreas D. - OIWA, Akira. Accelerated Adiabatic Passage of a Single Electron Spin Qubit in Quantum Dots. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 2, art. no. 027002. ISSN 0031-9007. Dostupné na:

<https://doi.org/10.1103/PhysRevLett.132.027002>, Registrované v: WOS

7. [1.1] RUCKRIEGEL, Max J. - GACHTER, Lisa M. - KEALHOFER, David - PANAHA, Mohsen Bahrami - TONG, Chuyao - ADAM, Christoph - MASSERONI, Michele - DUPREZ, Hadrien - GARREIS, Rebekka - WATANABE, Kenji - TANIGUCHI, Takashi - WALLRAFF, Andreas - IHN, Thomas - ENSSLIN, Klaus - HUANG, Wei Wister. Electric Dipole Coupling of a Bilayer Graphene Quantum Dot to a High-Impedance Microwave Resonator. In *NANO LETTERS*, 2024, vol. 24, no. 24, pp. 7508-7514. ISSN 1530-6984. Dostupné na:

<https://doi.org/10.1021/acs.nanolett.4c01791>, Registrované v: WOS

8. [1.1] SUN, Bo - BRECHT, Teresa - FONG, Bryan H. - AKMAL, Moonmoon - BLUMOFF, Jacob Z. - CAIN, Tyler A. - CARTER, Faustin W. - FINESTONE, Dylan H. - FIREMAN, Micha N. - HA, Wonill - HATKE, Anthony T. - HICKEY, Ryan M. - JACKSON, Clayton A. C. - JENKINS, Ian - JONES, Aaron M. - PAN, Andrew - WARD, Daniel R. - WEINSTEIN, Aaron J. - WHITELEY, Samuel J. -

WILLIAMS, Parker - BORSELLI, Matthew G. - RAKHER, Matthew T. - LADD, Thaddeus D. Full-Permutation Dynamical Decoupling in Triple-Quantum-Dot Spin Qubits. In *PRX QUANTUM*, 2024, vol. 5, no. 2, art. no. 020356. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.020356>, Registrované v: WOS

9. [1.1] TANAMOTO, Tetsufumi - ONO, Keiji - DEGUCHI, Jun - WADATSUMI, Junji - FUJIMOTO, Ryuichi. Noise properties in the Coulomb blockade region of FinFETs. In *JAPANESE JOURNAL OF APPLIED PHYSICS*, 2024, vol. 63, no. 3, art. no. 03SP69. ISSN 0021-4922. Dostupné na: <https://doi.org/10.35848/1347-4065/ad2823>, Registrované v: WOS

10. [1.1] TOUBEIX, Mathieu - GUTHMULLER, Eric - EVANS, Adrian - FAURIE, Antoine - MEUNIER, Tristan. FASQuiC: Flexible Architecture for Scalable Spin Qubit Control. In *IEEE TRANSACTIONS ON QUANTUM ENGINEERING*, 2024, vol. 5, no., art. no. 5500116. Dostupné na: <https://doi.org/10.1109/TQE.2024.3409811>, Registrované v: WOS

11. [1.1] TSUJI, Ryoya - IMAI, Yuki - BAEK, Jongeun - MAKIHARA, Katsunori - MIYAZAKI, Seiichi. Self-assembling formation of Si-QDs on SiO₂ line patterns. In *JAPANESE JOURNAL OF APPLIED PHYSICS*, 2024, vol. 63, no. 3, art. no. 03SP04. ISSN 0021-4922. Dostupné na: <https://doi.org/10.35848/1347-4065/ad1ca0>, Registrované v: WOS

12. [1.1] WANG, Ning - WANG, Shao-Min - ZHANG, Run-Ze - KANG, Jia-Min - LU, Wen-Long - LI, Hai-Ou - CAO, Gang - WANG, Bao-Chuan - GUO, Guo-Ping. Pursuing high-fidelity control of spin qubits in natural Si/SiGe quantum dot. In *APPLIED PHYSICS LETTERS*, 2024, vol. 125, no. 20, art. no. 204002. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0230605>, Registrované v: WOS

13. [1.2] GAO, Zhuoqing - AMARATUNGA, Gehan - WANG, Xiaozhi - MA, Boyang. Advances in Electron-Based Qubits: A Review. In *Journal of Physics Conference Series*, 2024-01-01, 2809, 1, pp. ISSN 17426588. Dostupné na: <https://doi.org/10.1088/1742-6596/2809/1/012028>, Registrované v: SCOPUS

ADCA627 NAKAJIMA, Takashi* - NOIRI, Akito - YONEDA, Jun - DELBECQ, Matthieu R. - STAŇO, Peter - OTSUKA, Tomohiro - TAKEDA, Kenta - AMAHA, Shinichi - ALLISON, Giles - KAWASAKI, Kento - LUDWIG, Arne - WIECK, Andreas D. - LOSS, Daniel - TARUCHA, Seigo*. Quantum non-demolition measurement of an electron spin qubit. In *Nature Nanotechnology*, 2019, vol. 14, no. 6, p. 555-560. (2018: 33.407 - IF, Q1 - JCR, 17.049 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1748-3387. Dostupné na: <https://doi.org/10.1038/s41565-019-0426-x>

Citácie:

1. [1.1] GARD, Bryan T. - PARROTT, Zachary - JACOBS, Kurt - AUMENTADO, Jose - SIMMONDS, Raymond W. Fast high-fidelity quantum nondemolition readout of a superconducting qubit. In *PHYSICAL REVIEW APPLIED*, 2024, vol. 21, no. 2, art. no. 024008. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.21.024008>, Registrované v: WOS
2. [1.1] GROSS, Jonathan A. - GODFRIN, Clement - BLAIS, Alexandre - DUPONT-FERRIER, Eva. Hardware-efficient error-correcting codes for large nuclear spins. In *PHYSICAL REVIEW APPLIED*, 2024, vol. 22, no. 1, art. no. 014006. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.22.014006>, Registrované v: WOS
3. [1.1] JOECKER, Benjamin - STEMP, Holly G. - DE FUENTES, Irene Fernandez - JOHNSON, Mark A. I. - MORELLO, Andrea. Error channels in quantum nondemolition measurements on spin systems. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 8, art. no. 085302. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.109.085302>, Registrované v: WOS

4. [1.1] POWER, Conor - STASZEWSKI, Robert Bogdan - BLOKHINA, Elena. Charge-Based Single-Shot Readout Systems in Quantum Computing. In *IEEE CIRCUITS AND SYSTEMS MAGAZINE*, 2024, vol. 24, no. 4, pp. 42-64. ISSN 1531-636X. Dostupné na: <https://doi.org/10.1109/MCAS.2024.3401618>, Registrované v: WOS

5. [1.1] STEMP, Holly G. - ASAAD, Serwan - VAN BLANKENSTEIN, Mark R. - VAARTJES, Arjen - JOHNSON, Mark A. I. - MADZIK, Mateusz T. - HESKES, Amber J. A. - FIRGAU, Hannes R. - SU, Rocky Y. - YANG, Chih Hwan - LAUCHT, Arne - OSTROVE, Corey I. - RUDINGER, Kenneth M. - YOUNG, Kevin - BLUME-KOHOUT, Robin - HUDSON, Fay E. - DZURAK, Andrew S. - ITOH, Kohei M. - JAKOB, Alexander M. - JOHNSON, Brett C. - JAMIESON, David N. - MORELLO, Andrea. Tomography of entangling two-qubit logic operations in exchange-coupled donor electron spin qubits. In *NATURE COMMUNICATIONS*, 2024, vol. 15, no. 1, art. no. 8415. Dostupné na: <https://doi.org/10.1038/s41467-024-52795-4>, Registrované v: WOS

6. [1.1] YAN, Jia-shun - JING, Jun. An Almost Deterministic Cooling by Measurements. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 8. Dostupné na: <https://doi.org/10.1002/qute.202300435>, Registrované v: WOS

7. [1.1] YUAN, Zhi-Hong - ZHANG, Jun - XIONG, Yong-Chen - ZHOU, Wang-Huai - NAN, Nan - LI, Xin-Ke. Competition between different long-distance superexchange couplings in a quadripartite spin-crossover molecular device. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 11, art. no. 115421. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.115421>, Registrované v: WOS

8. [1.1] ZHANG, Zheshen - YOU, Chenglong - MAGANA-LOAIZA, Omar S. - FICKLER, Robert - LEON-MONTIEL, Roberto De J. - TORRES, Juan P. - HUMBLE, Travis S. - LIU, Shuai - XIA, Yi - ZHUANG, Quntao. Entanglement-based quantum information technology: a tutorial. In *ADVANCES IN OPTICS AND PHOTONICS*, 2024, vol. 16, no. 1, pp. 60-162. ISSN 1943-8206. Dostupné na: <https://doi.org/10.1364/AOP.497143>, Registrované v: WOS

9. [1.2] DING, Pengbo - CHEN, Dezhang - KO, Pui Kei - QAMMAR, Memoona - GENG, Pai - GUO, Liang - HALPERT, Jonathan E. Nanomaterials for spin-based quantum information. In *Nanoscale*, 2024-11-15, 17, 3, pp. 1148-1170. ISSN 20403364. Dostupné na: <https://doi.org/10.1039/d4nr04012k>, Registrované v: SCOPUS

ADCA628 NAUGHTON-DUSZOVÁ, Annamária** - MEDVEĎ, Dávid - ĎAKOVÁ, Lenka - KOVALČÍKOVÁ, Alexandra - ŠVEC, Peter Jr. - TATARKO, Peter - ÜNSAL, Hakan - HVIZDOŠ, Pavol - ŠAJGALÍK, Pavol - DUSZA, Ján. Dual-phase high-entropy carbide/boride ceramics with excellent tribological properties. In *Journal of the European Ceramic Society*, 2024, vol. 44, no. 9, p. 5391-5400. (2023: 5.8 - IF, Q1 - JCR, 1.198 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents). ISSN 0955-2219. Dostupné na: <https://doi.org/10.1016/j.jeurceramsoc.2023.12.081>

Citácie:

1. [1.1] FILIPOVIC, S. - SMITH, SM II - HILMAS, G. - FAHRENHOLTZ, W. - OBRADOVIC, N. - CURTAROLO, S. Synthesis and properties of(Hf,Mo,Ti,W,Zr)B2- (Hf,Mo,Ti,W,Zr)C dual phase ceramics. In *JOURNAL OF THE EUROPEAN CERAMIC SOCIETY*. ISSN 0955-2219, NOV 2024, vol. 44, no. 14. Dostupné na: <https://doi.org/10.1016/j.jeurceramsoc.2024.116670>, Registrované v: WOS

2. [1.1] HASSAN, R. - FAHRENHOLTZ, W.G. - BALANI, K. - HILMAS, G.E. - WATTS, J. SiC addition to a dual phase high entropy ultra-high temperature

ceramic. In CERAMICS INTERNATIONAL. ISSN 0272-8842, DEC 15 2024, vol. 50, no. 24, C, p. 55650-55657. Dostupné na:

<https://doi.org/10.1016/j.ceramint.2024.10.430>, Registrované v: WOS

3. [1.1] YANG, Y. - BI, J.Q. - QIAO, L.J. - LIANG, G.D. - LIANG, S.Y. - LIU, S.S. - WANG, S.Y. - GONG, H.Y. - QIAN, Z. - SHI, J.W. - LI, W.Q. Effect of grain size on mechanical properties and tribological behavior of size-tunable high entropy diboride ceramics obtained by two-step SPS sintering. In JOURNAL OF ADVANCED CERAMICS. ISSN 2226-4108, NOV 2024, vol. 13, no. 11, p. 1835-1843. Dostupné na: <https://doi.org/10.26599/JAC.2024.9220980>, Registrované v: WOS

4. [1.1] ZHANG, J.L. - LIANG, J.L. - LI, H. - YANG, Y. - HUO, D.X. - LIU, C. A review of high-entropy ceramics preparation methods, properties in different application fields and their regulation methods. In JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T. ISSN 2238-7854, SEP-OCT 2024, vol. 32, p. 1083-1117. Dostupné na: <https://doi.org/10.1016/j.jmrt.2024.07.153>, Registrované v: WOS

ADCA629 NAUGHTON-DUSZOVÁ, Annamária** - MEDVEĎ, Dávid - ĎAKOVÁ, Lenka - KOVALČÍKOVÁ, Alexandra - ŠVEC, Peter Jr. - TATARKO, Peter - ÜNSAL, Hakan - HVIZDOŠ, Pavol - ŠAJGALÍK, Pavol - DUSZA, Ján. Highly wear resistant dual-phase (Ti-Zr-Nb-Hf-Ta)C/(Ti-Zr-Nb-Hf-Ta) B2 high-entropy ceramics. In Advances in Applied Ceramics, 2023, vol. 122, no. 3-4, p. 107-118. (2022: 2.2 - IF, Q2 - JCR, 0.45 - SJR, Q2 - SJR). ISSN 1743-6753. Dostupné na: <https://doi.org/10.1080/17436753.2023.2238160>

Citácie:

1. [1.1] HASSAN, R. - FAHRENHOLTZ, W.G. - BALANI, K. - HILMAS, G.E. - WATTS, J. SiC addition to a dual phase high entropy ultra-high temperature ceramic. In CERAMICS INTERNATIONAL. ISSN 0272-8842, DEC 15 2024, vol. 50, no. 24, C, p. 55650-55657. Dostupné na:

<https://doi.org/10.1016/j.ceramint.2024.10.430>, Registrované v: WOS

2. [1.1] LI, F.T. - HE, P.F. - LI, G. - YE, L. - ZHANG, B.S. - SUN, C. - XING, Y. - WANG, Y.J. - DUAN, X.M. - LIANG, X.B. Microstructure development of plasma sprayed dual-phase high entropy ceramic coating derived from spray dried and induction plasma spheroidized powder. In CERAMICS INTERNATIONAL. ISSN 0272-8842, JUL 1 2024, vol. 50, no. 13, B, p. 24576-24593. Dostupné na:

<https://doi.org/10.1016/j.ceramint.2024.04.193>, Registrované v: WOS

3. [1.1] YANG, Y. - BI, J.Q. - QIAO, L.J. - LIANG, G.D. - LIANG, S.Y. - LIU, S.S. - WANG, S.Y. - GONG, H.Y. - QIAN, Z. - SHI, J.W. - LI, W.Q. Effect of grain size on mechanical properties and tribological behavior of size-tunable high entropy diboride ceramics obtained by two-step SPS sintering. In JOURNAL OF ADVANCED CERAMICS. ISSN 2226-4108, NOV 2024, vol. 13, no. 11, p. 1835-1843. Dostupné na: <https://doi.org/10.26599/JAC.2024.9220980>, Registrované v: WOS

4. [1.1] ZHANG, J.H. - ZHENG, X.W. - LIU, J.X. - ZHANG, G.J. - LIANG, Y.C. Tribological and wear-resistant behaviors of single-phase (Dy_{0.2}Ho_{0.2}Er_{0.2}Tm_{0.2}Lu_{0.2})B₁₂ high-entropy ceramic. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. ISSN 0955-2219, JUN 2024, vol. 44, no. 6, p. 3664-3674. Dostupné na: <https://doi.org/10.1016/j.jeurceramsoc.2024.01.051>, Registrované v: WOS

ADCA630 NAUGHTON-DUSZOVÁ, Annamária** - ŠVEC, Peter Jr.** - KOVALČÍKOVÁ, Alexandra - SEDLÁK, Richard - TATARKO, Peter - HVIZDOŠ, Pavol - ŠAJGALÍK, Pavol - DUSZA, Ján. On the phase and grain boundaries in dual phase carbide/boride ceramics from micro to atomic level. In Journal of the European

Ceramic Society, 2023, vol. 43, no. 15, p. 6765-6773. (2022: 5.7 - IF, Q1 - JCR, 1.257 - SJR, Q1 - SJR). ISSN 0955-2219. Dostupné na: <https://doi.org/10.1016/j.jeurceramsoc.2023.07.034>

Citácie:

1. [1.1] CAI, F.Y. - NI, D.W. - DONG, S.M. *Research Progress of High-entropy Carbide Ultra-high Temperature Ceramics*. In *JOURNAL OF INORGANIC MATERIALS*. ISSN 1000-324X, JUN 20 2024, vol. 39, no. 6, p. 591-608.

Dostupné na: <https://doi.org/10.15541/jim20230562>, Registrované v: WOS

2. [1.1] FILIPOVIC, S. - SMITH, SM II - HILMAS, G. - FAHRENHOLTZ, W. - OBRADOVIC, N. - CURTAROLO, S. *Synthesis and properties of (Hf,Mo,Ti,W,Zr)B₂- (Hf,Mo,Ti,W,Zr)C dual phase ceramics*. In *JOURNAL OF THE EUROPEAN CERAMIC SOCIETY*. ISSN 0955-2219, NOV 2024, vol. 44, no. 14. Dostupné na: <https://doi.org/10.1016/j.jeurceramsoc.2024.116670>,

Registrované v: WOS

3. [1.1] SMITH II, S.M. - FAHRENHOLTZ, W.G. - HILMAS, G.E. - CURTAROLO, S. *Thermodynamic analysis of metal segregation in dual phase high entropy ceramics*. In *JOURNAL OF MATERIONICS*. ISSN 2352-8478, JUL 2024, vol. 10, no. 4, p. 889-895. Dostupné na:

<https://doi.org/10.1016/j.jmat.2023.12.007>, Registrované v: WOS

4. [1.2] YUAN, Mingyue - WEIBLE, Alan H. - AZADI, Fatemeh - LI, Bangxin - CUI, Jiacheng - LV, Hualiang - CHE, Renchao - WANG, Xiaoguang.

Advancements in high-entropy materials for electromagnetic wave absorption. In *Materials Horizons*, 2024-11-19, 12, 4, pp. 1033-1057. ISSN 20516347. Dostupné na: <https://doi.org/10.1039/d4mh01168f>, Registrované v: SCOPUS

ADCA631 NAUGHTON-DUSZOVÁ, Annamária** - MEDVEĎ, Dávid - ĎAKOVÁ, Lenka - KOVALČÍKOVÁ, Alexandra - ŠVEC, Peter Jr. - TATARKO, Peter - ÜNSAL, Hakan - HVIZDOŠ, Pavol - ŠAJGALÍK, Pavol - DUSZA, Ján. *Wear characteristics of dual-phase high-entropy ceramics: Influence of the testing method*. In *International Journal of Applied Ceramic Technology*, 2024, vol. 21, no. 4, p. 2678-2689. (2023: 1.8 - IF, Q2 - JCR, 0.387 - SJR, Q3 - SJR). ISSN 1546-542X. Dostupné na: <https://doi.org/10.1111/ijac.14651>

Citácie:

1. [1.1] YANG, Y. - BI, J.Q. - QIAO, L.J. - LIANG, G.D. - LIANG, S.Y. - LIU, S.S. - WANG, S.Y. - GONG, H.Y. - QIAN, Z. - SHI, J.W. - LI, W.Q. *Effect of grain size on mechanical properties and tribological behavior of size-tunable high entropy diboride ceramics obtained by two-step SPS sintering*. In *JOURNAL OF ADVANCED CERAMICS*. ISSN 2226-4108, NOV 2024, vol. 13, no. 11, p. 1835-1843. Dostupné na: <https://doi.org/10.26599/JAC.2024.9220980>, Registrované v: WOS

ADCA632 NAYAK, J. - MANIRAJ, M. - GLOSKOVSKII, A. - KRAJČÍ, Marián - SEBASTIAN, S. - FISHER, R. - HORN, K. - BARMAN, S.R. *Bulk electronic structure of Zn-Mg-Y and Zn-Mg-Dy icosahedral quasicrystals*. In *Physical Review B*, 2015, vol. 91, no. 23, art. no. 235116. (2014: 3.736 - IF, Q1 - JCR, 0.123 - SJR, Q4 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.91.235116>

Citácie:

1. [1.1] BISWAS, Anis - KUMAR, Ajay - SINGH, Prashant - DEL ROSE, Tyler - CHOUHAN, Rajiv K. - MARGATO, B. C. - ALHO, B. P. - NOBREGA, E. P. - VON RANKE, P. J. - RIBEIRO, P. O. - DE SOUSA, V. S. R. - MUDRYK, Yaroslav. *Influence of Ga doping on magnetic properties, magnetocaloric effect, and electronic structure of pseudobinary GdZn_{1-x}Ga_x (x=0-0.1)*. In *PHYSICAL REVIEW MATERIALS*, 2024, vol. 8, no. 11, art. no. 114418. ISSN 2475-9953.

Dostupné na: <https://doi.org/10.1103/PhysRevMaterials.8.114418>, Registrované v: WOS

2. [1.1] PINA-PEREZ, Yanet - SAMANIEGO-BENITEZ, Enrique - SIERRA-URIBE, Jhon Harrison - GONZALEZ, Federico - TZOMPANTZI, Francisco - LARTUNDO-ROJAS, Luis - MANTILLA, Angeles. Ethylenediamine-assisted solvothermal synthesis of ZnS/ZnO photocatalytic heterojunction for high-efficiency hydrogen production. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, 2024, vol. 31, pp. 36118-36135. ISSN 0944-1344.

Dostupné na: <https://doi.org/10.1007/s11356-023-27206-8>, Registrované v: WOS

ADCA633 NAZIR, Abrar - KHERA, Ejaz Ahmad - MANZOOR, Mumtaz - AL-ASBAHI, Bandar Ali - KUMAR, Yedluri Anil - SHARMA, Ramesh. A density functional theory study of the structural, mechanical, optoelectronics and thermoelectric properties of InGeX₃ (X = F, Cl) perovskites. In Polyhedron, 2024, vol. 257, no. 11, art. no. 117009. (2023: 2.4 - IF, Q2 - JCR, 0.379 - SJR, Q3 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 0277-5387. Dostupné na: <https://doi.org/10.1016/j.poly.2024.117009>

Citácie:

1. [1.1] ABDULLAH, Danish - GUPTA, Dinesh C. Analyzing the structural, optoelectronic, and thermoelectric properties of InGeX₃ (X = Br) perovskites via DFT computations. In SCIENTIFIC REPORTS, 2024, vol. 14, no. 1, art. no. 23575. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-72745-w>, Registrované v: WOS

2. [1.1] ABDULLAH, Danish - GUPTA, Dinesh C. DFT simulations of the elastic, optoelectronic, and thermoelectric attributes of AOsCl₃ (A = K, Rb), a robust and environmentally friendly perovskites for green energy implications. In SCIENTIFIC REPORTS, 2024, vol. 14, no. 1, art. no. 26168. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-73412-w>, Registrované v: WOS

3. [1.1] HASAN, Md. Ratul - APON, Imtiaz Ahamed - ISLAM, Md. Mafidul - AZAD, Asab Uzzaman - AMINUZZMAN, Md. - HAQUE, Md. Salman. DFT based analysis of pressure driven mechanical, opto-electronic, and thermoelectric properties in lead-free InGeX₃ (X = Cl, Br) perovskites for solar energy applications. In AIP ADVANCES, 2024, vol. 14, no. 11, art. no. 115109. Dostupné na: <https://doi.org/10.1063/5.0233863>, Registrované v: WOS

4. [1.1] PINGAK, Redi Kristian - HARBI, Amine - BOUHMAIDI, Soukaina - NITTI, Fidelis - MOUTAABBID, M. - SETTI, Larbi - JOHANNES, Albert Zicko - HAUWALI, Nikodemus U. J. Vacancy-ordered CsRbGeCl₆ and CsRbGeBr₆ perovskites as new promising non-toxic materials for photovoltaic applications: A DFT investigation. In CHEMICAL PHYSICS, 2024, vol. 584, no., art. no. 112348. ISSN 0301-0104. Dostupné na: <https://doi.org/10.1016/j.chemphys.2024.112348>, Registrované v: WOS

ADCA634 NAZIR, Abrar - KHERA, Ejaz Ahmad - MANZOOR, Mumtaz - GHFAR, Ayman A. - KUMAR, Yedluri Anil - ULLAH, Hamid - SHARMA, Ramesh. Screening the structural, optoelectronic and thermoelectric features of novel inverse perovskites X₃MgNa (X= Cl, Br and I): A theoretical investigation. In Solid State Communications, 2024, vol. 390, no. 11, art. no. 115622. (2023: 2.1 - IF, Q3 - JCR, 0.414 - SJR, Q2 - SJR). ISSN 0038-1098. Dostupné na: <https://doi.org/10.1016/j.ssc.2024.115622>

Citácie:

1. [1.1] ADNAN, Muhammad - ISHFAQ, Mudassir - ALDAGHFAG, Shatha A. - MISBAH - YASEEN, Muhammad - ALI, H. Elhosiny. Electronic transport properties of Rb₂AsAuX₆ (X = Cl, Br) halide double perovskites for energy harvesting applications. In CHEMICAL PHYSICS LETTERS, 2024, vol. 857, no.,

art. no. 141733. ISSN 0009-2614. Dostupné na:

<https://doi.org/10.1016/j.cplett.2024.141733>, Registrované v: WOS

2. [1.1] HUSSAIN, Mubashir - ALI, Farooq - ULLAH, Hamid - IQBAL, S. Tehreem - SHIN, Young-Han - ANJUM, Faiza - AL-AMMAR, Essam A. Doping dependent magnetic and thermoelectric response of perovskite BaGeO₃ for spintronics and energy applications. In COMPUTATIONAL CONDENSED MATTER, 2024, vol. 41, no., art. no. e00973. ISSN 2352-2143. Dostupné na:

<https://doi.org/10.1016/j.cocom.2024.e00973>, Registrované v: WOS

- ADCA635 NAZIR, Abrar - KHERA, Ejaz Ahmad - MANZOOR, Mumtaz - AL-ASBAHI, Bandar Ali - SHARMA, Ramesh. Tunable opto-electronic and thermoelectric response of alkali based half-Heusler semiconductors AMgN (A = Rb, Cs) for sustainable energy: A computational approach. In Materials Science and Engineering B - Solid-State Materials for Advanced Technology, 2024, vol. 303, art. no. 117338. (2023: 3.9 - IF, Q2 - JCR, 0.647 - SJR, Q2 - SJR, karentované - CCC). (2024 - Current Contents). ISSN 0921-5107. Dostupné na:

<https://doi.org/10.1016/j.mseb.2024.117338>

Citácie:

1. [1.1] TOUAL, Y. - MOUCHOU, S. - AZOUAOUI, A. - HARBI, A. - HOURMATALLAH, A. - BOUSLYKHANE, K. - BENZA, N. First principles study of structural and optoelectronic properties of semiconductor NaBeP_xN_{1-x} alloys for photovoltaic applications. In COMPUTATIONAL AND THEORETICAL CHEMISTRY, 2024, vol. 1240, no., art. no. 114845. ISSN 2210-271X. Dostupné na: <https://doi.org/10.1016/j.comptc.2024.114845>, Registrované v: WOS

- ADCA636 NEILINGER, P. - SHEVCHENKO, S.N. - BOGAR, J. - REHAK, M. - OELSNER, G. - KARPOV, D.S. - HUBNER, U. - ASTAFIEV, O. - GRAJCAR, Miroslav - ILICHEV, E. Landau-Zener-Stuckelberg-Majorana lasing in circuit quantum electrodynamics. In Physical Review B, 2016, vol. 94, no. 9, art. no. 094519. (2015: 3.718 - IF, Q1 - JCR, 2.377 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na:

<https://doi.org/10.1103/PhysRevB.94.094519>

Citácie:

1. [1.1] SUZUKI, Takayuki - TANIGUCHI, Eiki - IWAMURA, Kaito. Exact WKB analysis for adiabatic discrete-level Hamiltonians. In PHYSICAL REVIEW A, 2024, vol. 109, no. 2, art. no. 022225. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.022225>, Registrované v: WOS

- ADCA637 NEILINGER, P. - REHÁK, M. - GRAJCAR, Miroslav. Two-photon lasing by a superconducting qubit. In Physical Review B, 2015, vol. 91, no. 10, art. no. 104516. (2014: 3.736 - IF, Q1 - JCR, 0.123 - SJR, Q4 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na:

<https://doi.org/10.1103/PhysRevB.91.104516>

Citácie:

1. [1.1] BROERS, Lukas - MATHEY, Ludwig. Robustness of the Floquet-assisted superradiant phase and possible laser operation. In PHYSICAL REVIEW A, 2024, vol. 110, no. 6, art. no. 063712. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.063712>, Registrované v: WOS

2. [1.1] LI, Hai-Ji - FAN, Li-Bao - MA, Shan - LIAO, Jie-Qiao - SHU, Chuan-Cun. Exploring photon blockade in a two-photon Jaynes-Cummings model with atom and cavity drivings. In PHYSICAL REVIEW A, 2024, vol. 110, no. 4, art. no. 043707. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.110.043707>, Registrované v: WOS

- ADCA638 NEILINGER, Pavol** - ŠČEPKA, Tomáš - MRUCZKIEWICZ, Michal - DÉRER, Ján - MANCA, Daniel - DOBROČKA, Edmund - SAMARDAK, A.S. - GRAJCAR,

Miroslav - CAMBEL, Vladimír. Ferromagnetic resonance study of sputtered Pt/Co/Pt multilayers. In Applied Surface Science, 2018, vol. 461, p. 202-205. (2017: 4.439 - IF, Q1 - JCR, 1.093 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2018.06.172>

Citácie:

1. [1.2] TAN, Zhen Yu - CHEN, Ji Pei - SHI, Yu Ke - CHEN, Yuan - QIN, Ming Hui - GAO, Xing Sen - LIU, Jun Ming. Dynamics of asymmetrically deformed skyrmion driven by internal forces and strain force in a flower-shaped magnetic nanostructure. In Physical Review B, 2024-12-01, 110, 22, pp. ISSN 24699950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.224411>, Registrované v: SCOPUS

ADCA639 NESTERENKO, V. O.** - REPKO, Anton - KVASIL, J. - REINHARD, P.-G. Individual Low-Energy Toroidal Dipole State in 24Mg. In Physical Review Letters, 2018, vol. 120, no. 18, art. no. 182501. (2017: 8.839 - IF, Q1 - JCR, 3.622 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.120.182501>

Citácie:

1. [1.1] RADUTA, A. A. - RADUTA, C. M. - RADUTA, Alexandru Horia. Toward a new approach for the pygmy dipole resonance in even-even nuclei. Application to isotopes SUP144,148,150,152,154/SUPSm. In JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, 2024, vol. 51, no. 4, art. no. 045107. ISSN 0954-3899. Dostupné na: <https://doi.org/10.1088/1361-6471/ad27e4>, Registrované v: WOS

2. [1.1] XU, Yi - BALABANSKI, Dimiter L. - BARAN, Virgil - IORGA, Cristian - MATEI, Catalin. Vortex photon induced nuclear reaction: Mechanism, model, and application to the studies of giant resonance and astrophysical reaction rate. In PHYSICS LETTERS B, 2024, vol. 852, no., art. no. 138622. ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2024.138622>, Registrované v: WOS

ADCA640 NESTERENKO, V. O.** - VISHNEVSKIY, P. I. - KVASIL, J. - REPKO, Anton - KLEINIG, W. Microscopic analysis of low-energy spin and orbital magnetic dipole excitations in deformed nuclei. In Physical Review C, 2021, vol. 103, no. 6, art. no. 064313. (2020: 3.296 - IF, Q2 - JCR, 1.679 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.103.064313>

Citácie:

1. [1.1] LIU, Qunqun - ENGEL, Jonathan - HINOHARA, Nobuo - KORTELAJINEN, Markus. Effects of quasiparticle-vibration coupling on Gamow-Teller strength and β decay with the Skyrme proton-neutron finite-amplitude method. In PHYSICAL REVIEW C, 2024, vol. 109, no. 4, art. no. 044308. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.044308>, Registrované v: WOS

2. [1.1] TABAR, E. - HOSGOR, G. - YAKUT, H. - KEMAH, E. - KOMURCU, Y. Karademirci. On the low-energy electromagnetic dipole modes in SUP151,153,155/SUPSm Nuclei. In CHINESE JOURNAL OF PHYSICS, 2024, vol. 92, no., pp. 1158-1173. ISSN 0577-9073. Dostupné na: <https://doi.org/10.1016/j.cjph.2024.10.030>, Registrované v: WOS

ADCA641 NESTERENKO, V. O.** - REPKO, Anton - KVASIL, J. - REINHARD, P.-G. Individual dipole toroidal states: Main features and search in the (e, e') reaction. In Physical Review C, 2019, vol. 100, no. 6, art. no. 064302. (2018: 3.132 - IF, Q2 - JCR, 1.502 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS,

SCOPUS). ISSN 2469-9985. Dostupné na:
<https://doi.org/10.1103/PhysRevC.100.064302>

Citácie:

1. [1.1] KAMERDZHIEV, S. P. - SHITOV, M. I. Fine Structure of Pygmy and Giant Multipole Resonances in Nuclei. In MOSCOW UNIVERSITY PHYSICS BULLETIN, 2024, vol. 79, no. 2, pp. 191-199. ISSN 0027-1349. Dostupné na: <https://doi.org/10.3103/S0027134924700243>, Registrované v: WOS

2. [1.1] VOSKRESENSKY, D. N. Pion-sigma meson vortices in rotating systems. In PHYSICAL REVIEW D, 2024, vol. 109, no. 3, art. no. 034030. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.109.034030>, Registrované v: WOS

ADCA642 NESTERENKO, V. O. - VISHNEVSKIY, P. I. - REINHARD, P.-G. - REPKO, Anton - KVASIL, J. Microscopic analysis of dipole electric and magnetic strengths in ¹⁵⁶Gd. In European Physical Journal A, 2024, vol. 60, no. 2, art. no. 28. (2023: 2.6 - IF, Q2 - JCR, 0.931 - SJR, Q1 - SJR). ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01251-4>

Citácie:

1. [1.1] TABAR, E. - HOSGOR, G. - YAKUT, H. - KEMAH, E. - KOMURCU, Y. Karademirci. On the low-energy electromagnetic dipole modes in ^{151,153,155}SUPSm Nuclei. In CHINESE JOURNAL OF PHYSICS, 2024, vol. 92, no., pp. 1158-1173. ISSN 0577-9073. Dostupné na: <https://doi.org/10.1016/j.cjph.2024.10.030>, Registrované v: WOS

ADCA643 NEUMANN, Sebastian Philipp** - SCHEIDL, Thomas - SELIMOVIC, Mirela - PIVOLUSKA, Matej - LIU, Bo - BOHMANN, Martin - URSIN, Rupert**. Model for optimizing quantum key distribution with continuous-wave pumped entangled-photon sources. In Physical Review A, 2021, vol. 104, no. 2, art. no. 022406. (2020: 3.140 - IF, Q2 - JCR, 1.391 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.104.022406>

Citácie:

1. [1.1] ARMAGHANI, S. - ROSTAMI, A. Superimposed Bragg gratings and entangled biphoton dispersion management. In OPTICS CONTINUUM, 2024, vol. 3, no. 3, pp. 354-367. Dostupné na: <https://doi.org/10.1364/OPTCON.514774>, Registrované v: WOS

2. [1.1] SHI, Bingke - HONG, Huibo - XIANG, Xiao - QUAN, Runai - LIU, Yuting - LIU, Tao - ZHANG, Shougang - DONG, Ruifang. Quantum two-way time transfer over a 250 km direct fiber-optic link. In OPTICS EXPRESS, 2024, vol. 32, no. 25, pp. 43805-43814. ISSN 1094-4087. Dostupné na: <https://doi.org/10.1364/OE.536691>, Registrované v: WOS

3. [1.1] XIONG, Siyu - TANG, Bangying - HAN, Hui - HUANG, Jinqian - BAI, Mingqiang - LI, Fangzhao - YU, Wanrong - MO, Zhiwen - LIU, Bo. Efficient Arbitrated Quantum Digital Signature with Multi-Receiver Verification. In ADVANCED QUANTUM TECHNOLOGIES, 2024, vol. 7, no. 11. Dostupné na: <https://doi.org/10.1002/qute.202400110>, Registrované v: WOS

4. [1.1] YADAV, Vikash Kumar - VENKATARAMAN, Vivek - GHOSH, Joyee. High-brightness fiber-coupled source of polarization-entangled photon pairs spanning the telecom C- and L-bands. In OPTICS AND LASER TECHNOLOGY, 2024, vol. 175, no., art. no. 110774. ISSN 0030-3992. Dostupné na: <https://doi.org/10.1016/j.optlastec.2024.110774>, Registrované v: WOS

5. [1.2] AMORIM, Rodrigo - ALEXANDER, Kasper - GRUNER-NIELSEN, Lars - ROTTWITT, Karsten. Spatial Mode Conversion of Single Photons Using Long-Period Grating. In 16th Pacific Rim Conference on Lasers and Electro Optics

CLEO PR 2024, 2024-01-01, pp. ISBN [9798350372076]. Dostupné na: <https://doi.org/10.1109/CLEO-PR60912.2024.10676662>, Registrované v: SCOPUS

6. [1.2] PICKSTON, Alexander - JAEKEN, Thomas - REDZA, Faris - HO, Joseph - FEDRIZZI, Alessandro. Uplink Simulation for Entanglement-based Satellite Communication. In Quantum 2 0 in Proceedings Quantum 2 0 Conference and Exhibition, 2024-01-01, pp. ISBN [9781557525185]. Dostupné na:

<https://doi.org/10.1364/quantum.2024.qtu4b.1>, Registrované v: SCOPUS

ADCA644 NICHELE, F. - HENNEL, S. - PIETSCH, P. - WEGSCHEIDER, W. - STAÑO, Peter - JACQUOD, P. Generation and detection of spin currents in semiconductor nanostructures with strong spin-orbit interaction. In Physical Review Letters, 2015, vol. 114, no. 20, art. no. 206601. (2014: 7.512 - IF, Q1 - JCR, 5.232 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.114.206601>

Citácie:

1. [1.1] GUPTA, Adbhut - WANG, C. - WINKLER, R. - PFEIFFER, L. N. Ultraclean two-dimensional hole systems with mobilities exceeding 10⁵ cm²/V.s. In PHYSICAL REVIEW MATERIALS, 2024, vol. 8, no. 1, art. no. 014004. ISSN 2475-9953. Dostupné na:

<https://doi.org/10.1103/PhysRevMaterials.8.014004>, Registrované v: WOS

2. [1.1] LIANG, Jie - WEN, Wen - JIN, Feng - RUBO, Yuri G. - LIEW, Timothy C. H. - SU, Rui. Polariton spin Hall effect in a Rashba-Dresselhaus regime at room temperature. In NATURE PHOTONICS, 2024, vol. 18, no. 4. ISSN 1749-4885.

Dostupné na: <https://doi.org/10.1038/s41566-023-01375-x>, Registrované v: WOS

ADCA645 NISHINO, T. - HIEIDA, Y. - OKUNISHI, K. - MAESHINA, N. - AKUTSU, Y. - GENDIAR, Andrej. Two-dimensional tensor product variational formulation. In Progress Theoretical Physics, 2001, vol. 105, no. 3, p. 409-417. Dostupné na: <https://doi.org/10.1143/PTP.105.409>

Citácie:

1. [1.1] AKIYAMA, Shinichiro - MEURICE, Yannick - SAKAI, Ryo. Tensor renormalization group for fermions. In JOURNAL OF PHYSICS-CONDENSED MATTER, 2024, vol. 36, no. 34, art. no. 343002. ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/1361-648X/ad4760>, Registrované v: WOS

2. [1.1] KANEKO, Ryui - GOTO, Shimpei - DANSHITA, Ippei. Ground-state phase diagram of the SU(4) Heisenberg model on a plaquette lattice. In PHYSICAL REVIEW A, 2024, vol. 110, no. 2, art. no. 023326. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.023326>, Registrované v: WOS

3. [1.1] LUKIN, I. - SOTNIKOV, A. G. Corner transfer matrix renormalization group approach in the zoo of Archimedean lattices. In PHYSICAL REVIEW E, 2024, vol. 109, no. 4, art. no. 045305. ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.109.045305>, Registrované v: WOS

4. [1.1] LUKIN, I. V. - SOTNIKOV, A. G. Single-layer tensor network approach for three-dimensional quantum systems. In PHYSICAL REVIEW B, 2024, vol. 110, no. 6, art. no. 064422. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.064422>, Registrované v: WOS

5. [1.1] MASHIKO, Tohru - OKUBO, Tsuyoshi. Quantum phase transition between spin liquid and spin nematics in spin-1 Kitaev honeycomb model. In PHYSICAL REVIEW RESEARCH, 2024, vol. 6, no. 3, art. no. 033110. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.033110>, Registrované v: WOS

6. [1.1] XU, WenTao - HUANG, Rui-Zhen - ZHANG, Guang-Ming. Bridging Rokhsar-Kivelson type and generic quantum phase transitions via thermofield

double states. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 16, art. no. 165103. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.165103>, Registrované v: WOS

7. [1.1] YOSHIOKA, Nobuyuki - OKUBO, Tsuyoshi - SUZUKI, Yasunari - KOIZUMI, Yuki - MIZUKAMI, Wataru. Hunting for quantum-classical crossover in condensed matter problems. In *NPJ QUANTUM INFORMATION*, 2024, vol. 10, no. 1, art. no. 45. Dostupné na: <https://doi.org/10.1038/s41534-024-00839-4>, Registrované v: WOS

8. [1.1] ZHANG, Yintai - DZIARMAGA, Jacek. Bang-bang preparation of quantum many-body ground states in two dimensions: Optimization of the algorithm with a two-dimensional tensor network. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 23, art. no. 235124. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.235124>, Registrované v: WOS

9. [1.2] HARADA, Kenji - MATSUEDA, Hiroaki - OKUBO, Tsuyoshi. Application of tensor network formalism for processing tensor data. In *Advanced Mathematical Science for Mobility Society*, 2024-03-13, pp. 79-100. ISBN [9789819997718, 9789819997725]. Dostupné na: https://doi.org/10.1007/978-981-99-9772-5_5, Registrované v: SCOPUS

ADCA646 NORBY, T. - HARTMANOVÁ, Mária. Electrical-conductivity and ionic transport number of YSZ and CR-doped YSZ single-crystals at 200-1000-degrees-C. In *Solid State Ionics*, 1993, vol. 67, no. 1-2, p. 57-64. (1992: 1.093 - IF, karentované - CCC). (1993 - Current Contents). ISSN 0167-2738. Dostupné na: [https://doi.org/10.1016/0167-2738\(93\)90309-Q](https://doi.org/10.1016/0167-2738(93)90309-Q)

Citácie:

1. [1.1] BELLO, Idris Temitope - TAIWO, Ridwan - ESAN, Oladapo Christopher - ADEGOKE, Adesola Habeeb - IJAOLA, Ahmed Olanrewaju - LI, Zheng - ZHAO, Siyuan - WANG, Chen - SHAO, Zongping - NI, Meng. AI-enabled materials discovery for advanced ceramic electrochemical cells. In *ENERGY AND AI*, 2024, vol. 15, no., art. no. 100317. ISSN 2666-5468. Dostupné na: <https://doi.org/10.1016/j.egyai.2023.100317>, Registrované v: WOS

ADCA647 NOSKO, Martin - SIMANČÍK, František - IŽDINSKÝ, Karol - ŠVEC, Peter - FLOREK, Roman. Stabilizing intermetallic phases within aluminum foam. In *Materials Letters*, 2011, vol. 65, no. 9, p. 1378-1380. (2010: 2.120 - IF, Q1 - JCR, 1.056 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0167-577X. Dostupné na: <https://doi.org/10.1016/j.matlet.2011.02.007>

Citácie:

1. [1.1] AN, Y.K. - DENG, B.X. - MA, H.Y. - ZHAO, E.T. - LUO, Y. - ZHANG, H. - WANG, H.T. Influence of self-repair mechanism of internal oxide film on the preparation of aluminum foam fabricated using a non-thickening foaming process. In *JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T*. ISSN 2238-7854, MAR-APR 2024, vol. 29, p. 1321-1334. Dostupné na: <https://doi.org/10.1016/j.jmrt.2024.01.200>, Registrované v: WOS

ADCA648 NOSKO, Martin - NAGY, Štefan - WEBER, L. - MAŤKO, Igor - MIHALKOVIČ, Marek - IŽDINSKÝ, Karol - OROVČÍK, Ľubomír. Effect of Ca addition on interface formation in Al(Ca)/Al₂O₃ composites prepared by gas pressure assisted infiltration. In *Materials and Design*, 2016, vol. 108, p. 618-623. (2015: 3.997 - IF, Q1 - JCR, 1.844 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0261-3069. Dostupné na: <https://doi.org/10.1016/j.matdes.2016.07.034>

Citácie:

1. [1.1] ZHANG, W.M. - HUANG, P. - LU, X.Y. - CHEN, T. - DUAN, X.M. - WEN, Y.P. - DENG, L.P. - XU, J.K. A Tablet-Operated Portable Wireless Sensing Platform for Field Simultaneous Rapid Detection of both Cd (II) and Pb (II)

Using CaAl-Layered Double Hydroxide Nanocomposite Modified Integrated Screen-Printed Three-Electrode. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, FEB 1 2024, vol. 171, no. 2. Dostupné na: <https://doi.org/10.1149/1945-7111/ad2311>, Registrované v: WOS

- ADCA649 OCELÍK, Václav - CSACH, Kornel - JURÍKOVÁ, Alena - MIŠKUF, Jozef - ŠVEC, Peter - KRIŠTIÁKOVÁ, Katarína - MAŤKO, Igor. Activation energy distribution in nanocrystallization kinetics of amorphous Fe_{73.5}Cu₁Nb₃Si_{13.5}B₉ alloy. In Scripta Materialia, 1996, vol. 35, no. 11, p. 1301-1306. (1995: 0.912 - IF, karentované - CCC). (1996 - Current Contents, WOS, SCOPUS). ISSN 1359-6462. Dostupné na: [https://doi.org/10.1016/1359-6462\(96\)00307-7](https://doi.org/10.1016/1359-6462(96)00307-7)

Citácie:

1. [1.1] KHERROUBA, Nabil - BOUABDALLAH, Mabouk. Evolution of the σ phase morphology during its isothermal precipitation in the 2205 duplex stainless steel. In MATERIALS CHEMISTRY AND PHYSICS, 2024, vol. 322, no., art. no. 129561. ISSN 0254-0584. Dostupné na:

<https://doi.org/10.1016/j.matchemphys.2024.129561>, Registrované v: WOS

- ADCA650 OGANESSION, Y.T. - YEREMIN, A.V. - GULBEKIAN, G.G. - BOGOMOLOV, S.L. - CHEPIGIN, V.I. - GIKAL, B.N. - GORSHKOV, V.A. - ITKIS, M.G. - KABACHENKO, A.P. - KUTNER, V.B. - AVRENTSEV, A.Y. - MALYSHEV, O.N. - POPEKO, A.G. - ROHAC, J. - SAGAIDAK, R.N. - HOFMANN, S. - MUNZENBERG, G. - VESELSKÝ, Martin - SARO, S. - IWASSA, N. - MORITA, K. Search for new isotopes of element 112 by irradiation of U-238 with Ca-48. In European Physical Journal A, 1999, vol. 5, no. 1, p. 63-68. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1007/s100500050257>

Citácie:

1. [1.1] DENISOV, V. Yu. Production of superheavy nuclei in hot-fusion reactions. In PHYSICAL REVIEW C, 2024, vol. 109, no. 4, art. no. 044618. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.044618>, Registrované v: WOS

2. [1.1] LE, Xian-Kai - FAN, Kuan - XING, Feng-Zhu - GUO, Shu-Qing - WANG, Nan. Angular distribution of products in multinucleon transfer reactions. In CHINESE PHYSICS C, 2024, vol. 48, no. 10, art. no. 104103. ISSN 1674-1137. Dostupné na: <https://doi.org/10.1088/1674-1137/ad5e66>, Registrované v: WOS

3. [1.1] MANJUNATHA, H. C. - SOWMYA, N. - GUPTA, P. S. Damodara - MANJUNATHA, N. - NANDI, T. Possibility of Discovering the Super-Heavy Elements $Z=119$ and 120 . In BRAZILIAN JOURNAL OF PHYSICS, 2024, vol. 54, no. 6, art. no. 210. ISSN 0103-9733. Dostupné na:

<https://doi.org/10.1007/s13538-024-01551-6>, Registrované v: WOS

- ADCA651 OJALA, Joonas - PAKARINEN, Janne** - PAPADAKIS, Philippos - SORRI, Juha - SANDZELIUS, Mikael - COX, Daniel M. - AURANEN, Kalle - BADRAN, Hussam - DAVIES, Paul J. - GRAHN, Tuomas - GREENLEES, Paul T. - HENDERSON, Jack - HERZÁŇ, Andrej - HERZBERG, Rolf-Dietmar - HILTON, Joshua - JAKOBSSON, Ulrika - JENKINS, David G. - JOSS, David T. - JULIN, Rauno - JUUTINEN, Sakari - KIBÉDI, Tibor - KONKI, Joonas - LANE, Gregory J. - LEINO, Matti - LIIMATAINEN, Jarkko - MCPEAKE, Christopher G. - NEUVONEN, Olavi - PAGE, Robert D. - PARR, Edward - PARTANEN, Jari - PEURA, Pauli - RAHKILA, Panu - REVILL, John - RUOTSALAINEN, Panu - SARÉN, Jan - SCHOLEY, Catherine - STOLZE, Sanna - UUSITALO, Juha - WARD, Andrew - WADSWORTH, Robert. Reassigning the shapes of the 0^+ states in the ^{186}Pb nucleus. In Communications Physics, 2022, vol. 5, no. 1, art. no. 213. (2021: 6.497 - IF, Q1 - JCR, 2.130 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2399-3650. Dostupné na: <https://doi.org/10.1038/s42005->

Citácie:

1. [1.1] LEONI, S. - FORNAL, B. - BRACCO, A. - TSUNODA, Y. - OTSUKA, T. Multifaceted character of shape coexistence phenomena in atomic nuclei. In *PROGRESS IN PARTICLE AND NUCLEAR PHYSICS*, 2024, vol. 139, no., art. no. 104119. ISSN 0146-6410. Dostupné na: <https://doi.org/10.1016/j.ppnp.2024.104119>, Registrované v: WOS
2. [1.1] LV, B. F. - LI, Z. L. - WANG, Y. J. - PETRACHE, C. M. Mapping low-lying states and $B(E2\ 0^+1\text{SUP}+/ \text{SUP} \rightarrow 2^+1\text{SUP}+/ \text{SUP})$ in even-even nuclei with machine learning. In *PHYSICS LETTERS B*, 2024, vol. 857, no., art. no. 139013. ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2024.139013>, Registrované v: WOS
3. [1.1] MUN, Myeong-Hwan - HA, Eunja - CHOI, Yong-Beom - CHEOUN, Myung-Ki. Nuclear shape evolution of neutron-deficient Au and kink structure of Pb isotopes. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 2, art. no. 024310. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.024310>, Registrované v: WOS
4. [1.1] SHUKLA, Sakshi - SRIVASTAVA, Praveen C. - PATEL, Deepak. Systematic shell-model study of structure and isomeric states in $\text{SUP}204\text{-}213/\text{SUPBi}$ isotopes. In *JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS*, 2024, vol. 51, no. 7, art. no. 075103. ISSN 0954-3899. Dostupné na: <https://doi.org/10.1088/1361-6471/ad4d07>, Registrované v: WOS

ADCA652 OPATRNY, T. - WELSCH, D.G. - BUŽEK, Vladimír. Parametrized discrete phase-space functions. In *Physical Review A*, 1996, vol. 53, no. 6, p. 3822-3835. ISSN 1050-2947.

Citácie:

1. [1.1] CHOBANYAN, Raphael - ZUBKOV, Mikhail A. Precise Wigner-Weyl Calculus for the Honeycomb Lattice. In *SYMMETRY-BASEL*, 2024, vol. 16, no. 8, art. no. 1081. Dostupné na: <https://doi.org/10.3390/sym16081081>, Registrované v: WOS
2. [1.1] ZHANG, Xia - WANG, Xue - MA, Haitao - LIU, Ming - XING, Junjing. Tighter sum unitary uncertainty relation. In *LASER PHYSICS*, 2024, vol. 34, no. 12, art. no. 125203. ISSN 1054-660X. Dostupné na: <https://doi.org/10.1088/1555-6611/ad8a42>, Registrované v: WOS

ADCA653 OPATRNY, T. - BUŽEK, Vladimír - BAJER, J. - DROBNÝ, Gabriel. Propensities in discrete phase spaces - Q-function of a state in a finite-dimensional Hilbert-space. In *Physical Review A*, 1995, vol. 52, no. 3, p. 2419-2428. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.52.2419>

Citácie:

1. [1.1] COTFAS, Nicolae. Frame representation of quantum systems with finite-dimensional Hilbert space. In *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, 2024, vol. 57, no. 39, art. no. 395301. ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/ad74bd>, Registrované v: WOS
2. [1.1] ZHANG, Xia - WANG, Xue - MA, Haitao - LIU, Ming - XING, Junjing. Tighter sum unitary uncertainty relation. In *LASER PHYSICS*, 2024, vol. 34, no. 12, art. no. 125203. ISSN 1054-660X. Dostupné na: <https://doi.org/10.1088/1555-6611/ad8a42>, Registrované v: WOS
3. [1.1] ZHENG, Xu - GUO, Qiong. Stronger variance-based unitary uncertainty relations. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 7, art. no. 275. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04488-6>, Registrované v: WOS

ADCA654 OROVČÍK, Lubomír - NOSKO, Martin - ŠVEC, Peter - NAGY, Štefan -

ČAVOJSKÝ, Miroslav - SIMANČÍK, František - JERZ, Jaroslav. Effect of the TiH₂ pre-treatment on the energy absorption ability of 6061 aluminium alloy foam. In *Materials Letters*, 2015, vol. 148, p. 82-85. (2014: 2.489 - IF, Q1 - JCR, 0.877 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0167-577X. Dostupné na: <https://doi.org/10.1016/j.matlet.2015.02.062>

Citácie:

1. [1.1] RODINGER, T. - CORIC, D. - KOVÁČIK, J. *The Effect of Foaming Agents on the Thermal Behavior of Aluminum Precursors. In MATERIALS. FEB 2024, vol. 17, no. 3. Dostupné na: <https://doi.org/10.3390/ma17030710>, Registrované v: WOS*

ADCA655 OTUKA, N. - DUPONT, E. - SEMKOVA, V. - PRITYCHENKO, B. - BLOKHIN, A.I. - AIKAWA, M. - BABYKINA, S. - BOSSANT, M. - CHEN, G. - DUNAEVA, S. - FORREST, R.A. - FUKAHORI, T. - FURUTACHI, N. - GANESAN, S. - GE, Z. - GRITZAY, O.O. - HERMAN, M. - HLAVÁČ, Stanislav - KATO, K. - LALREMRUATA, B. - LEE, Y.O. - MAKINAGA, A. - MATSUMOTO, K. - MIKHAYLYUKOVA, M. - PIKULINA, G. - PRONYAEV, V.G. - SAXENA, A. - SCHWERER, O. - SIMAKOV, S.P. - SOPPERA, N. - SUZUKI, R. - TAKÁCS, S. - TAO, X. - TAOVA, S. - TÁRKÁNYI, F. - VARLAMOV, V.V. - WANG, J. - YANG, S.C. - ZERKIN, V. - ZHUANG, Y. Towards a more complete and accurate experimental nuclear reaction data library (EXFOR): International collaboration between nuclear reaction data centres (NRDC). In *Nuclear Data Sheets*, 2014, vol. 120, p. 272-276. (2013: 3.353 - IF, Q1 - JCR, 1.761 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2014.07.065>

Citácie:

1. [1.1] AHMED, Arshiya Anees - MISIAK, Ryszard - BARTYZEL, Miroslaw - WAS, Bogdan - MIETELSKI, Jerzy W. Excitation functions of proton-induced nuclear reactions on SUPnat/SUPCaCO₃ up to 60 MeV. In *RADIATION PHYSICS AND CHEMISTRY*, 2024, vol. 214, no., art. no. 111290. ISSN 0969-806X. Dostupné na: <https://doi.org/10.1016/j.radphyschem.2023.111290>, Registrované v: WOS

2. [1.1] AIKAWA, Masayuki - EBATA, Shuichiro - HABA, Hiromitsu - TAKACS, Sandor - DITROI, Ferenc - SZUCS, Zoltan. Activation cross sections of α -particle-induced reactions on scandium in the energy range of 22-51 MeV. In *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS*, 2024, vol. 550, no., art. no. 165315. ISSN 0168-583X. Dostupné na:

<https://doi.org/10.1016/j.nimb.2024.165315>, Registrované v: WOS

3. [1.1] AIKAWA, Masayuki - GOTO, Saki - GANTUMUR, Damdinsuren - ICHINKHORLOO, Dagvadorj - UKON, Naoyuki - OTUKA, Naohiko - TAKACS, Sandor - HABA, Hiromitsu. Activation cross sections of ⁷Li-induced reactions on natCu for monitor reactions. In *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS*, 2024, vol. 554, no., art. no. 165441. ISSN 0168-583X. Dostupné na: <https://doi.org/10.1016/j.nimb.2024.165441>, Registrované v: WOS

4. [1.1] AKKOYUN, Serkan - YESILKANAT, Cafer Mert - BAYRAM, Tuncay. Machine learning predictions for cross-sections of ^{43,44}Sc radioisotope production by alpha-induced reactions on Ca target. In *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS*, 2024, vol. 549, no., art. no. 165293. ISSN 0168-583X. Dostupné na:

<https://doi.org/10.1016/j.nimb.2024.165293>, Registrované v: WOS

5. [1.1] AVRIGEANU, M. - AVRIGEANU, V. Giant quadrupole resonances within neutron-induced α -particle emission? In *PHYSICS LETTERS B*, 2024, vol. 858, no., art. no. 139078. ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2024.139078>, Registrované v: WOS
6. [1.1] AVRIGEANU, Marilena - AVRIGEANU, Vlad. Due consideration of the breakup and direct reaction mechanisms within (d, p), (d, 2p), (d, xn2p), and (d, xn) reactions. In *16TH VARENNA CONFERENCE ON NUCLEAR REACTION MECHANISMS, NRM 2023*, 2024, vol. 292, no., art. no. 06001. ISSN 2100-014X. Dostupné na: <https://doi.org/10.1051/epjconf/202429206001>, Registrované v: WOS
7. [1.1] BARRY, D. P. - PIGNI, M. T. - BROWN, J. M. - LEWIS, A. M. - TRUMBULL, T. H. - GUBER, K. H. - MCDERMOTT, B. J. - BLOCK, R. C. - DANON, Y. A new ^{181}Ta neutron resolved resonance region evaluation. In *ANNALS OF NUCLEAR ENERGY*, 2024, vol. 208, no., art. no. 110778. ISSN 0306-4549. Dostupné na: <https://doi.org/10.1016/j.anucene.2024.110778>, Registrované v: WOS
8. [1.1] BELANGER, Hunter - LEWIS, Amanda - BARRY, Devin. Comparison and evaluation of resolved resonance region covariance representations. In *JOURNAL OF NUCLEAR SCIENCE AND TECHNOLOGY*, 2024, vol. 61, no. 2, pp. 192-205. ISSN 0022-3131. Dostupné na: <https://doi.org/10.1080/00223131.2023.2279303>, Registrované v: WOS
9. [1.1] BLIDEANU, V. - BESNARD-VAUTERIN, C. - HORVATH, D. - LEFEBVRE, B. - SALVAT-PUJOL, F. - VERSACI, R. Neutron spectra from photonuclear reactions: Performance testing of Monte-Carlo particle transport simulation codes. In *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS*, 2024, vol. 549, no., art. no. 165292. ISSN 0168-583X. Dostupné na: <https://doi.org/10.1016/j.nimb.2024.165292>, Registrované v: WOS
10. [1.1] BUENO, E. Ferronato - DEROME, L. - GENOLINI, Y. - MAURIN, D. - TATISCHEFF, V. - VECCHI, M. Transport parameters from AMS-02 F/Si data and fluorine source abundance. In *ASTRONOMY & ASTROPHYSICS*, 2024, vol. 688, no., art. no. A17. ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202244660>, Registrované v: WOS
11. [1.1] CEBRIAN, S. Study of cosmogenic activation above ground of Ar for DarkSide-20k. In *JOURNAL OF INSTRUMENTATION*, 2024, vol. 19, no. 2, art. no. C02011. ISSN 1748-0221. Dostupné na: <https://doi.org/10.1088/1748-0221/19/02/C02011>, Registrované v: WOS
12. [1.1] CHASAPOGLOU, S. - DIAKAKI, M. - MICHALOPOULOU, V. - KOKKORIS, M. - VLASTOU, R. - AXIOTIS, M. - LAGOYANNIS, A. - LEDERER-WOODS, C. - BABUT, R. - MAGALOTTI, N. Cross-section measurements of neutron-induced reactions on Ge isotopes in the neutron energy range 14.0-18.9 MeV. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 4, art. no. 044612. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.044612>, Registrované v: WOS
13. [1.1] CHASAPOGLOU, S. - KOKKORIS, M. - VLASTOU, R. - DIAKAKI, M. - MICHALOPOULOU, V. - KALAMARA, A. - GKATIS, G. - STAMATOPOULOS, A. - AXIOTIS, M. - HARISSOPULOS, S. - LAGOYANNIS, A. - SAVVA, M. I. - VASILOPOULOU, T. - LEDERER-WOODS, C. - PATRONIS, N. - KAPERONI, K. On the accuracy of cross-section measurements of neutron-induced reactions using the activation technique with natural targets: The case of Ge at $E_n=17.9$ MeV. In *APPLIED RADIATION AND ISOTOPES*, 2024, vol. 203, no., art. no. 111077. ISSN 0969-8043. Dostupné na:

- <https://doi.org/10.1016/j.apradiso.2023.111077>, Registrované v: WOS
14. [1.1] CHOUDHARY, Mahesh - SINGH, Namrata - SHARMA, Aman - GANDHI, Aman - UPADHYAY, Mahima - PACHUAU, Rebecca - DASGUPTA, Sandipan - DATTA, Jagannath - KUMAR, Ajay. Excitation functions of alpha-particle induced nuclear reactions on SUPnat/SUPSn. In RADIOCHIMICA ACTA, 2024, vol. 112, no. 7-8, pp. 455-462. ISSN 0033-8230. Dostupné na: <https://doi.org/10.1515/ract-2023-0202>, Registrované v: WOS
15. [1.1] CHOUDHARY, Mahesh - SINGH, Namrata - UPADHYAY, Mahima - DUBEY, Punit - SINGH, Shweta - PAUL, Sriya - MISHRA, Utkarsha - DASGUPTA, S. - DATTA, J. - KUMAR, A. Excitation functions for SUPnat/SUPAg(α , x) reactions with detailed covariance analysis. In NUCLEAR PHYSICS A, 2024, vol. 1050, no., art. no. 122917. ISSN 0375-9474. Dostupné na: <https://doi.org/10.1016/j.nuclphysa.2024.122917>, Registrované v: WOS
16. [1.1] COLOMBI, Alessandro - FONTANA, Andrea. Comparative study of ^{155}Tb production via ^{155}Dy precursor with p, d and α beams on natural targets for medical applications. In APPLIED RADIATION AND ISOTOPES, 2024, vol. 212, no., art. no. 111443. ISSN 0969-8043. Dostupné na: <https://doi.org/10.1016/j.apradiso.2024.111443>, Registrované v: WOS
17. [1.1] DUDOUET, Jeremie - GRUYER, Diego. The toolkit for nuclei library (TkN): a C plus plus interface to nuclear databases. In EUROPEAN PHYSICAL JOURNAL PLUS, 2024, vol. 139, no. 7, art. no. 641. ISSN 2190-5444. Dostupné na: <https://doi.org/10.1140/epjp/s13360-024-05384-9>, Registrované v: WOS
18. [1.1] DURAN, I. - CAPOTE, R. - CABANELAS, P. Normalization of ToF (n,f) Measurements in Fissile Targets: Microscopic cross-section integrals. In NUCLEAR DATA SHEETS, 2024, vol. 193, no., pp. 95-104. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.01.004>, Registrované v: WOS
19. [1.1] GANTUMUR, Damdinsuren - AIKAWA, Masayuki - KHISHIGJARGAL, Tegshjargal - NOROV, Erdene - EBATA, Shuichiro - HABA, Hiromitsu - TAKACS, Sandor - DITROI, Ferenc - SZUCS, Zoltan. Activation cross sections of alpha-particle-induced reactions on natural rhenium up to 50 MeV. In APPLIED RADIATION AND ISOTOPES, 2024, vol. 213, no., art. no. 111486. ISSN 0969-8043. Dostupné na: <https://doi.org/10.1016/j.apradiso.2024.111486>, Registrované v: WOS
20. [1.1] GIRI, P.K. - GHUGRE, S.S. - RAUT, R. Model calculation for α -induced reactions of theranostic applications. In JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, 2024, vol. 333, no. 3, pp.1467-1477., Registrované v: WOS
21. [1.1] GKATIS, G. - DIAKAKI, M. - NOGUERE, G. - NYMAN, M. - OPREA, A. - PARADELA, C. - PIROVANO, E. - PLOMPEN, A. J. M. Cross section measurements of neutron elastic and inelastic scattering on ^{54}Fe . In PHYSICAL REVIEW C, 2024, vol. 109, no. 3, art. no. 034612. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.034612>, Registrované v: WOS
22. [1.1] GKATIS, G. - PIROVANO, E. - DIAKAKI, M. - NOGUERE, G. - NYMAN, M. - OPREA, A. - PARADELA, C. - PLOMPEN, A. J. M. Angular distribution measurements of neutron elastic scattering on natural carbon. In PHYSICAL REVIEW C, 2024, vol. 110, no. 3, art. no. 034609. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.034609>, Registrované v: WOS
23. [1.1] GRABMAYR, Peter. Cross sections and gamma cascades in SUP77/SUPGe needed for background reduction in $0\nu\beta\beta$ experiments on SUP76/SUPGe. In EUROPEAN PHYSICAL JOURNAL A, 2024, vol. 60, no. 5,

art. no. 115. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01336-0>, Registrované v: WOS

24. [1.1] HESS, Laurin - MAYER, Matej - SCHWARZ-SELINGER, Thomas. Cross-section data for the reactions $^{13}\text{C}(^3\text{He},p)^{15}\text{N}$ to $^{13}\text{C}(^3\text{He},p)^{15}\text{N}$ and $^{13}\text{C}(^3\text{He},d)^{14}\text{N}$ at energies up to 6 MeV. In NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, 2024, vol. 555, no., art. no. 165454. ISSN 0168-583X. Dostupné na:

<https://doi.org/10.1016/j.nimb.2024.165454>, Registrované v: WOS

25. [1.1] HUGO, Gabrielle - AHDIDA, Claudia - BOZZATO, Davide - CALZOLARI, Daniele - CERUTTI, Francesco - CICCOTELLI, Alessia - CIMMINO, Anna - DEVIENNE, Arnaud - SERVELLE, Andre Donadon - DYRCZ, Patrycja K. - ESPOSITO, Luigi Salvatore - FORMENTO, Alice - FROESCHL, Robert - ALIA, Ruben Garcia - GILARDONI, Simone - GOMES, Andrea - HORVATH, David - HUMANN, Barbara - INFANTINO, Angelo - LECHNER, Anton - LEFEBVRE, Benoit - LERNER, Giuseppe - LORENZON, Tommaso - LUCSANYI, David - MAGISTRIS, Matteo - MARIN, Stefano - MAZZOLA, Giuseppe - NIAN, Samuel - NOWAK, Elzbieta - OGALLAR RUIZ, Francisco - POTOINE, Jean-Baptiste - POZZI, Fabio - PRELIPCEAN, Daniel - RODIN, Volodymyr - ROESLER, Stefan - SABATE GILARTE, Marta - SACRISTAN BARBERO, Mario - SALVAT PUJOL, Francesc - SCHOOFS, Philippe - SERBAN, Alexandra-Gabriela - SHARANKOV, Ivan - THEIS, Chris - TISI, Marco - TSINGANIS, Andrea - VERSACI, Roberto - VLACHOUDIS, Vasilis - WAETS, Andreas - WIDORSKI, Markus - ZYMAK, Illia. Latest FLUKA developments. In EPJ NUCLEAR SCIENCES & TECHNOLOGIES, 2024, vol. 10, no., art. no. 20. ISSN 2491-9292. Dostupné na: <https://doi.org/10.1051/epjn/2024023>, Registrované v: WOS

26. [1.1] IWAMOTO, Hiroki - MEIGO, Shin-ichiro - SUGIHARA, Kenta. Comprehensive estimation of nuclide production cross sections using a phenomenological approach. In PHYSICAL REVIEW C, 2024, vol. 109, no. 5, art. no. 054610. ISSN 2469-9985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.109.054610>, Registrované v: WOS

27. [1.1] JIN, Changsong - LI, Tiejun - ZHANG, Jianmin - ZHANG, Wei - YANG, Bo - REN, Ruixuan - CUI, Cunhao. FECSG-ML: Feature Engineering for Nuclear Reaction Cross Sections Generation Using Machine Learning. In APPLIED RADIATION AND ISOTOPES, 2024, vol. 214, no., art. no. 111545. ISSN 0969-8043. Dostupné na: <https://doi.org/10.1016/j.apradiso.2024.111545>, Registrované v: WOS

28. [1.1] JOVANCEVIC, Nikola - KNEZEVIC, David - KRMAR, Miodrag - MALETIC, Dimitrije - ZHEMCHUGOV, Alexey - MILAKOVIC, Milomir. Determination of the bremsstrahlung spectra by unfolding technique based on SUP209/SUPBi(γ , xn) reactions. In RADIATION PHYSICS AND CHEMISTRY, 2024, vol. 215, no., art. no. 111330. ISSN 0969-806X. Dostupné na:

<https://doi.org/10.1016/j.radphyschem.2023.111330>, Registrované v: WOS

29. [1.1] KIM, C. H. - CHAE, K. Y. - SMITH, M. S. - BARDAYAN, D. W. - BRUNE, C. R. - DEBOER, R. J. - LU, D. - ODELL, D. Probabilistic neural networks for improved analyses with phenomenological R-matrix. In PHYSICAL REVIEW C, 2024, vol. 110, no. 5, art. no. 054609. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.054609>, Registrované v: WOS

30. [1.1] KUCUKSUCU, S. - YIGIT, M. - PAAR, N. Isotopic dependence of (n, α) reaction cross sections for Fe and Sn nuclei. In NUCLEAR PHYSICS A, 2024, vol. 1041, no., art. no. 122779. ISSN 0375-9474. Dostupné na:

- <https://doi.org/10.1016/j.nuclphysa.2023.122779>, Registrované v: WOS
31. [1.1] KUMAR, Rahul - BHOLANE, G. T. - GANESAPANDY, T. S. - KHAIRE, A. B. - ATTAR, F. M. D. - DAHIWALE, S. S. - BHORASKAR, V. N. - DHOLE, S. D. Neutron-induced reaction cross section measurements for palladium isotopes at 14.77 ± 0.17 MeV with covariance analysis. In RADIATION PHYSICS AND CHEMISTRY, 2024, vol. 225, no., art. no. 112157. ISSN 0969-806X. Dostupné na: <https://doi.org/10.1016/j.radphyschem.2024.112157>, Registrované v: WOS
32. [1.1] KWON, Saerom - OHTA, Masayuki - SATO, Satoshi. Problems on copper data above 10 MeV in ENDF/B-VIII.0 and JEFF-3.3. In ANNALS OF NUCLEAR ENERGY, 2024, vol. 202, no., art. no. 110497. ISSN 0306-4549. Dostupné na: <https://doi.org/10.1016/j.anucene.2024.110497>, Registrované v: WOS
33. [1.1] LEAL, L. - LECLAIRE, N. - JAISWAL, V. Impact of experimental effects on a resolved resonance evaluation for practical applications. In ANNALS OF NUCLEAR ENERGY, 2024, vol. 208, no., art. no. 110795. ISSN 0306-4549. Dostupné na: <https://doi.org/10.1016/j.anucene.2024.110795>, Registrované v: WOS
34. [1.1] LEE, H. Y. - KUVIN, S. A. - ZAVORKA, L. - MOSBY, S. - DIGIOVINE, B. - HALE, G. - PARIS, M. - VOTAW, D. - WHITE, M. Differential cross sections of the $^{16}\text{O}(n, \alpha)$ reaction at neutron energies from 3.8 to 15 MeV. In PHYSICAL REVIEW C, 2024, vol. 109, no. 1, art. no. 014601. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.014601>, Registrované v: WOS
35. [1.1] LELIEVRE, R. - YAO, W. - WALTENSPIEL, T. - COHEN, I. - ANTHONIPPILLAI, V. - ANTICI, P. - BECK, A. - COHEN, E. - MICHAELI, D. - POMERANTZ, I. - GAUTIER, D. C. - TROMPIER, F. - DUCASSE, Q. - KOSEOGLOU, P. - SODERSTROM, P. a. - MATHIEU, F. - ALLAOUA, A. - FUCHS, Julien. A comprehensive characterization of the neutron fields produced by the Apollon petawatt laser. In EUROPEAN PHYSICAL JOURNAL PLUS, 2024, vol. 139, no. 11, art. no. 1035. ISSN 2190-5444. Dostupné na: <https://doi.org/10.1140/epjp/s13360-024-05679-x>, Registrované v: WOS
36. [1.1] LI, Baoqian - XIAO, Min - CHEN, Yonghao - XUE, Jieming - LI, Xinxiang - YI, Han - CHENG, Pinjing - LIU, Rong - YANG, Yiwei - HAN, Zijie - ZHAO, Dajun - WANG, Haoqiang - ZHAO, Jirong - LUAN, Peng - LIU, Jing - LIU, Zijun - CHEN, Chaomin - LUO, Wen - ZHENG, Bo - FENG, Song. New measurement of the neutron-induced total cross-sections of $^{238}\text{Pu}/^{238}\text{Pu}$ in a wide energy range on the Back-n at CSNS. In CHINESE PHYSICS C, 2024, vol. 48, no. 10, art. no. 104002. ISSN 1674-1137. Dostupné na: <https://doi.org/10.1088/1674-1137/ad66c0>, Registrované v: WOS
37. [1.1] LI, W. F. - LIU, L. L. - NIU, Z. M. - NIU, Y. F. - HUANG, X. L. Predictions for the $(n, 2n)$ reaction cross section based on a Bayesian neural network approach. In PHYSICAL REVIEW C, 2024, vol. 109, no. 4, art. no. 044616. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.044616>, Registrované v: WOS
38. [1.1] LI, Yan - DAI, Ying - DAI, Wei - HE, Feiqiang - LI, Zhuyao - ZHONG, Xing - TAO, Qinqin. Bifunctional solid-state ionic liquid supported amidoxime chitosan adsorbents for Th(IV) and U(VI): Enhanced adsorption capacity from the synergistic effect. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, 2024, vol. 257, no., art. no. 128708. ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2023.128708>, Registrované v: WOS
39. [1.1] LI, Zhi - WANG, Zhao - ZHAO, Guanchao - LIU, Bing - XIE, Huasheng - TAN, Muzhi - HUANG, Hairong - LIU, Minsheng - HOFFMANN, Dieter H. H. -

CHENG, Rui - LUO, Di. Proton-boron fusion in a hydrogen-doped-boron target. In *LASER AND PARTICLE BEAMS*, 2024, vol. 42, no., art. no. e5. ISSN 0263-0346. Dostupné na: <https://doi.org/10.1017/lpb.2024.2>, Registrované v: WOS

40. [1.1] LIU, B. - TIAN, G. - HAN, R. - SHI, F. - SUN, H. - CHEN, Z. - ZHANG, Z. - LI, Q. - LUO, P. Excitation functions for fast neutron induced reactions on iron and lead. In *APPLIED RADIATION AND ISOTOPES*, 2024, vol. 207, no., art. no. 111274. ISSN 0969-8043. Dostupné na: <https://doi.org/10.1016/j.apradiso.2024.111274>, Registrované v: WOS

41. [1.1] LIU, Bailiang - GUO, Jingnan - DOBYNDE, Mikhail I. - LIU, Jia - ZHANG, Yingnan - QIN, Liping. Modeling of Cosmogenic Cr Isotopes Produced in Lunar Rocks Compared With Existing Calculations and Measurements. In *JOURNAL OF GEOPHYSICAL RESEARCH-PLANETS*, 2024, vol. 129, no. 2, art. no. e2023JE008069. ISSN 2169-9097. Dostupné na: <https://doi.org/10.1029/2023JE008069>, Registrované v: WOS

42. [1.1] LIU, Qi-Ze - DAI, Wen-Han - ZENG, Ming - ZENG, Zhi - BATYAEV, V. F. - PAVLOV, K. V. - TITARENKO, A. Yu. - TITARENKO, Yu. E. - TIKHONOV, R. S. - ZHIVUN, V. M. Production cross sections of ^{102m}Rh and ^{108m}Ag in proton bombed nat Pb target with 400 MeV energy. In *APPLIED RADIATION AND ISOTOPES*, 2024, vol. 214, no., art. no. 111533. ISSN 0969-8043. Dostupné na: <https://doi.org/10.1016/j.apradiso.2024.111533>, Registrované v: WOS

43. [1.1] MACIA-CASTELLO, Cristina - HUIDOBRO, Jennifer - BLANCO-LOPEZ, Daniel - GABOARDI, Mattia - CAZZANIGA, Carlo - BHUIYAN, Nahid - DOLADO, Jorge S. - ARANA, Gorka - MANUEL MADARIAGA, Juan - FERNANDEZ-ALONSO, Felix. Neutron activation on NILE for quantitative chemical analysis First results and outlook. In *10TH INTERNATIONAL MEETING OF UNION FOR COMPACT ACCELERATOR-DRIVEN NEUTRON SOURCES, UCANS-10*, 2024, vol. 298, no., art. no. 05002. ISSN 2100-014X. Dostupné na: <https://doi.org/10.1051/epjconf/202429805002>, Registrované v: WOS

44. [1.1] MARKOVA, M. - LARSEN, A. C. - VON NEUMANN-COSEL, P. - LITVINOVA, E. - CHOPLIN, A. - GORIELY, S. - MARTINET, S. - SIESS, L. - GUTTORMSEN, M. - POGLIANO, F. - SIEM, S. Systematic study of the low-lying electric dipole strength in Sn isotopes and its astrophysical implications. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 5, art. no. 054311. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.054311>, Registrované v: WOS

45. [1.1] MILLAN-CALLADO, M. A. - GUERRERO, C. - FERNANDEZ, B. - GOMEZ-CAMACHO, J. - MACIAS, M. - QUESADA, J. M. Continuous and pulsed fast neutron beams at the CNA HiSPANoS facility. In *RADIATION PHYSICS AND CHEMISTRY*, 2024, vol. 217, no., art. no. 111464. ISSN 0969-806X. Dostupné na: <https://doi.org/10.1016/j.radphyschem.2023.111464>, Registrované v: WOS

46. [1.1] MOHR, Peter. Total reaction cross section of light stable and exotic nuclei on lead at energies around the Coulomb barrier. In *EUROPEAN PHYSICAL JOURNAL A*, 2024, vol. 60, no. 9, art. no. 193. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01403-6>, Registrované v: WOS

47. [1.1] MORILLON, B. - BLANCHON, G. - ROMAIN, P. - ARELLANO, H. F. Neutron scattering off spherical nuclei with a global nonlocal dispersive optical model. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 4, art. no. 044611. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.044611>, Registrované v: WOS

48. [1.1] MOU, Liliana - DE DOMINICIS, Lucia - CISTERNINO, Sara - SKLIAROVA, Hanna - CAMPOSTRINI, Matteo - RIGATO, Valentino - DE NARDO, Laura - MELENDEZ-ALAFORT, Laura - ESPOSITO, Juan - HADDAD, Ferid - PUPILLO, Gaia. Nuclear Cross-Section of Proton-Induced Reactions on Enriched SUP48/SUPTi Targets for the Production of Theranostic SUP47/SUPSc Radionuclide, SUP46c/SUPSc, SUP44m/SUPSc, SUP44g/SUPSc, SUP43/SUPSc, and SUP48/SUPV. In PHARMACEUTICALS, 2024, vol. 17, no. 1, art. no. 26. Dostupné na: <https://doi.org/10.3390/ph17010026>, Registrované v: WOS
49. [1.1] NAIK, H. - DANGE, S. P. - SINGH, R. J. - JANG, W. Post-Neutron Mass Yield Distribution in the Epi-Cadmium Neutron-Induced Fission of SUP233/SUPU. In NUCLEAR SCIENCE AND ENGINEERING, 2024, vol. 198, no. 8, pp. 1566-1582. ISSN 0029-5639. Dostupné na: <https://doi.org/10.1080/00295639.2023.2259746>, Registrované v: WOS
50. [1.1] NAIK, H. - SINGH, R. J. - DANGE, S. P. - JANG, W. Independent isomeric yield ratios of fission products in the epi-cadmium neutron induced fission of SUP233/SUPU. In APPLIED RADIATION AND ISOTOPES, 2024, vol. 208, no., art. no. 111304. ISSN 0969-8043. Dostupné na: <https://doi.org/10.1016/j.apradiso.2024.111304>, Registrované v: WOS
51. [1.1] NAIK, H. - SINGH, R. J. - DANGE, S. P. - JANG, W. Independent isomeric yield ratios of fission products in the epi-cadmium neutron induced fission of SUP235/SUPU. In APPLIED RADIATION AND ISOTOPES, 2024, vol. 214, no., art. no. 111536. ISSN 0969-8043. Dostupné na: <https://doi.org/10.1016/j.apradiso.2024.111536>, Registrované v: WOS
52. [1.1] NAIK, H. - SINGH, R. J. - DANGE, S. P. - JANG, W. Independent isomeric yield ratios of fission products in the epi-cadmium neutron induced fission of SUP239/SUP Pu. In APPLIED RADIATION AND ISOTOPES, 2024, vol. 211, no., art. no. 111414. ISSN 0969-8043. Dostupné na: <https://doi.org/10.1016/j.apradiso.2024.111414>, Registrované v: WOS
53. [1.1] NAIK, H. - SINGH, R. J. - DANGE, S. P. - JANG, W. Post-Neutron Mass Yield Distribution in the Epi-Cadmium Neutron-Induced Fission of SUP239/SUPPu. In NUCLEAR SCIENCE AND ENGINEERING, 2024, vol. 198, no. 11, pp. 2051-2068. ISSN 0029-5639. Dostupné na: <https://doi.org/10.1080/00295639.2024.2303541>, Registrované v: WOS
54. [1.1] NAIK, H.- SINGH, R.J. - DANGE, S.P. - et al. Post-Neutron Mass Yield Distribution in the Epi-Cadmium Neutron-Induced Fission of 238Pu. In NUCLEAR SCIENCE AND ENGINEERING, 2024, vol. 198, no. 4, pp. 771-785., Registrované v: WOS
55. [1.1] NAIK, Haladhara - SINGH, Ram Janam - DANGE, Srikanth Pandurang - JANG, Wooyoung. Independent isomeric yield ratios of fission products in the epi-cadmium neutron-induced fission of SUP245/SUPCm. In RADIOCHIMICA ACTA, 2024, vol. 112, no. 11, pp. 817-826. ISSN 0033-8230. Dostupné na: <https://doi.org/10.1515/ract-2024-0287>, Registrované v: WOS
56. [1.1] NGUYEN, Thuong T. H. - SANAMI, Toshiya - YAMAZAKI, Hirohito - LEE, Eunji - SUGIHARA, Kenta - ITOGA, Toshiro - KIRIHARA, Yoichi - MIYAMOTO, Shuji - HASHIMOTO, Satoshi - ASANO, Yoshihiro. Photon energy dependence of photoneutron production from heavy targets. In 16TH VARENNA CONFERENCE ON NUCLEAR REACTION MECHANISMS, NRM 2023, 2024, vol. 292, no., art. no. 07004. ISSN 2100-014X. Dostupné na: <https://doi.org/10.1051/epjconf/202429207004>, Registrované v: WOS
57. [1.1] NOROV, Enkhbat - NAIK, Haladhara - JANG, SungDuck. Measurement of isomeric yield ratios of 119m,gTe in the 60 and 70 MeV bremsstrahlung induced reaction of natTe. In RADIATION PHYSICS AND CHEMISTRY, 2024,

vol. 218, no., art. no. 111600. ISSN 0969-806X. Dostupné na: <https://doi.org/10.1016/j.radphyschem.2024.111600>, Registrované v: WOS

58. [1.1] OKUMURA, Shin - SCHNABEL, Georg - KONING, Arjan. Developing a new web service for experimental nuclear reaction database (EXFOR) using RESTful API and JSON. In 16TH VARENNNA CONFERENCE ON NUCLEAR REACTION MECHANISMS, NRM 2023, 2024, vol. 292, no., art. no. 12003. ISSN 2100-014X. Dostupné na: <https://doi.org/10.1051/epjconf/202429212003>, Registrované v: WOS

59. [1.1] ONECHA, V. V. - ESPINOSA-RODRIGUEZ, A. - BRIZ, J. A. - ESPANA, S. - GARCIA, G. - GARCIA-DIEZ, M. - IBANEZ, P. - NOUVILAS, V. M. - SANCHEZ-PARCERISA, D. - UDIAS, J. M. - VINALS, S. - FRAILE, L. M. Reaction yields and angular distributions of prompt γ -rays for range verification in proton therapy using ^{18}O . In RADIATION PHYSICS AND CHEMISTRY, 2024, vol. 217, no., art. no. 111485. ISSN 0969-806X. Dostupné na: <https://doi.org/10.1016/j.radphyschem.2023.111485>, Registrované v: WOS

60. [1.1] PAMPIN, R. - CUBI, A. - TAYLOR, N. - FABBRI, M. - MARTINEZ-ALBERTOS, P. - SAUVAN, P. - LETONQUEZE, Y. The Radiation Impact of Delayed Photoneutron Production in ITER Components. In FUSION SCIENCE AND TECHNOLOGY, 2024, vol. 80, no. 8, pp. 1012-1023. ISSN 1536-1055. Dostupné na: <https://doi.org/10.1080/15361055.2023.2278375>, Registrované v: WOS

61. [1.1] PANERU, S. N. - LEE, H. Y. - PROKOP, C. - KUVIN, S. A. - FICHTL, C. - GASTIS, P. - HALE, G. M. - LEAL-CIDONCHA, E. - MOSBY, M. - PARIS, M. - KING, T. T. - NATTRESS, J. - RULAND, T. J. - FEBBRARO, M. - DEBOER, R. J. - STECH, E. - BAILEY, T. - BOOMERSHINE, C. - CARMICHAEL, S. - CLARK, A. - FANG, R. - GOERRES, J. - KELMAR, R. - LEE, K. - MANUKYAN, K. - MATNEY, M. - MCDONAUGH, J. - MILLER, A. - NELSON, A. - O'MALLEY, P. - ROBERTSON, D. - SHAHINA - TAN, W. - VON SEEGER, W. W. - WIESCHER, M. - ROBERTS, A. Comprehensive study of $d+^6\text{Li}$ via observing simultaneous outgoing neutrons, γ rays, and charged particles. In PHYSICAL REVIEW C, 2024, vol. 110, no. 4, art. no. 044603. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.044603>, Registrované v: WOS

62. [1.1] PAUL, Sabyasachi - SAHOO, G. S. - TRIPATHY, S. P. - SHARMA, S. C. - KULKARNI, M. S. Generation of neutron spectra and emission yields from proton-induced reactions on natC and natLi targets using CR-39 detectors. In RADIATION MEASUREMENTS, 2024, vol. 177, no., art. no. 107249. ISSN 1350-4487. Dostupné na: <https://doi.org/10.1016/j.radmeas.2024.107249>, Registrované v: WOS

63. [1.1] PERKOWSKI, J. - ALCAYNE, V. - ANDRZEJEWSKI, J. - CANO-OTT, D. - GAWLIK-RAMIEGA, A. - MENDOZA, E. - SANCHEZ-CABALLERO, A. - SIBBENS, G. - VANLEEuw, D. - ABERLE, O. - ALTIERI, S. - AMADUCCI, S. - BABIANO-SUAREZ, V. - BACAK, M. - CORREA, J. Balibrea - BELTRAMI, C. - BENNETT, S. - BERNARDES, A. P. - BERTHOUMIEUX, E. - BEYER, R. - BOROMIZA, M. - BOSNAR, D. - CAAMANO, M. - CALVINO, F. - CALVIANI, M. - CASANOVAS, A. - CASTELLUCCIO, D. M. - CERUTTI, F. - CESCUTTI, G. - CHASAPOGLOU, S. - CHIAVERI, E. - COLOMBETTI, P. - COLONNA, N. - CAMPRINI, P. Console - CORTES, G. - CORTES-GIRALDO, M. A. - COSENTINO, L. - CRISTALLO, S. - DELLMANN, S. - DI CASTRO, M. - DI MARIA, S. - DIAKAKI, M. - DIETZ, M. - DOMINGO-PARDO, C. - DRESSLER, R. - DUPONT, E. - DURAN, I. - ELEME, Z. - FARGIER, S. - FERNANDEZ, B. Multi-section fission ionization chamber for measurement of $\text{SUP239/SUPPu}(n, \gamma)$ reaction in fission tagging method. In NUCLEAR INSTRUMENTS & METHODS

IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, 2024, vol. 1067, no., art. no. 169649. ISSN 0168-9002. Dostupné na: <https://doi.org/10.1016/j.nima.2024.169649>, Registrované v: WOS

64. [1.1] PIKULINA, G. N. - TAOVA, S. M. EXFOR-Editor package for entering, processing and representing Nuclear reaction data in the EXFOR format. In JOURNAL OF NUCLEAR SCIENCE AND TECHNOLOGY, 2024, vol. 61, no. 1, pp. 146-149. ISSN 0022-3131. Dostupné na: <https://doi.org/10.1080/00223131.2023.2271895>, Registrované v: WOS

65. [1.1] RAMIC, K. - DAMIAN, J.I.M. - DI JULIO, D.D. - et al. Advances in Nuclear Data and Software Development for the HighNESS Project. In NUCLEAR SCIENCE AND ENGINEERING, 2024, vol. 198, no. 1, pp. 74-82., Registrované v: WOS

66. [1.1] SAAD, Maher T. - AL-AZRAQ, Bassam T. - MOHSIN, Radhwan Ch. - JAWAD, Rasheed - NAJEM, Rusul A. Theoretical models validation of Cr-51 production reactions for medical applications. In ANNALS OF NUCLEAR ENERGY, 2024, vol. 209, no., art. no. 110853. ISSN 0306-4549. Dostupné na: <https://doi.org/10.1016/j.anucene.2024.110853>, Registrované v: WOS

67. [1.1] SALVAT, Francesc - HEREDIA, Carlos. Electromagnetic interaction models for Monte Carlo simulation of protons and alpha particles. In NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, 2024, vol. 546, no., art. no. 165157. ISSN 0168-583X. Dostupné na: <https://doi.org/10.1016/j.nimb.2023.165157>, Registrované v: WOS

68. [1.1] SASAKI, Yuto - SANO, Aaru - SASAKI, Shinji - IWAMOTO, Nobuyuki - OUCHI, Kazuki - KITATSUJI, Yoshihiro - TAKAKI, Naoyuki - MAEDA, Shigetaka. Evaluation of the production amount of SUP225/SUPAc and its uncertainty through the SUP226/SUPRa(n,2n) reaction in the experimental fast reactor Joyo. In JOURNAL OF NUCLEAR SCIENCE AND TECHNOLOGY, 2024, vol. 61, no. 4, pp. 509-520. ISSN 0022-3131. Dostupné na: <https://doi.org/10.1080/00223131.2023.2243941>, Registrované v: WOS

69. [1.1] SCHMITZ, Benedikt - SCHEUREN, Stefan. Neutron Yield Predictions with Artificial Neural Networks: A Predictive Modeling Approach. In JOURNAL OF NUCLEAR ENGINEERING, 2024, vol. 5, no. 2, pp. 114-127. Dostupné na: <https://doi.org/10.3390/jne5020009>, Registrované v: WOS

70. [1.1] SCHNABEL, G. - ALDAMA, D. L. - BOHM, T. - FISCHER, U. - KUNIEDA, S. - TRKOV, A. - KONNO, C. - CAPOTE, R. - KONING, A. J. - BREIDOKAITE, S. - EADE, T. - FABBRI, M. - FLAMMINI, D. - ISOLAN, L. - KODELI, I. - KOSTAL, M. - KWON, S. - LAGHI, D. - LEICHTLE, D. - NAKAYAMA, S. - OHTA, M. - PACKER, L. W. - QIU, Y. - SATO, S. - SAWAN, M. - SCHULC, M. - STANKUNAS, G. - SUMINI, M. - VALENTINE, A. - VILLARI, R. - ZOHAR, A. FENDL: A library for fusion research and applications. In NUCLEAR DATA SHEETS, 2024, vol. 193, no., pp. 1-78. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.01.001>, Registrované v: WOS

71. [1.1] SCHOENAUEN, Lucas - COOS, Richard - COLAUX, Julien L. - HEUSKIN, AnneCatherine. Design and optimization of a dedicated Faraday cup for UHDR proton dosimetry: Implementation in a UHDR irradiation station. In NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, 2024, vol. 1064, no., art. no. 169411. ISSN 0168-9002. Dostupné na: <https://doi.org/10.1016/j.nima.2024.169411>, Registrované v: WOS

72. [1.1] SERBAN, Alexandra-Gabriela - CORONETTI, Andrea - ALIA, Ruben

- Garcia - PUJOL, Francesc Salvat. Nuclear elastic scattering of protons below 250 MeV in FLUKA v4-4.0 and its role in single-event-upset production in electronics. In *COMPUTER PHYSICS COMMUNICATIONS*, 2024, vol. 303, no., art. no. 109276. ISSN 0010-4655. Dostupné na: <https://doi.org/10.1016/j.cpc.2024.109276>, Registrované v: WOS
73. [1.1] SHARMA, Aman - DUBEY, Punit - MISHRA, Utkarsha - DUBEY, Nitin - PANDEY, Jyoti - GANDHI, Ramandeep - PAL, A. - BAISHYA, Abhijit - SANTHOSH, T. - ROUT, P. C. - NAYAK, B. K. - SANTRA, S. - CHAKRABORTY, A. - KUMAR, A. Study of the surrogate ratio method by determination of $^{56}\text{Fe}(n, xp)$ cross sections. In *PHYSICS LETTERS B*, 2024, vol. 848, no., art. no. 138381. ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2023.138381>, Registrované v: WOS
74. [1.1] SINGH, Namrata - CHOUDHARY, Mahesh - GANDHI, A. - SHARMA, Aman - UPADHYAY, Mahima - DUBEY, Punit - PACHUAU, Rebecca - DASGUPTA, S. - DATTA, J. - KUMAR, A. Measurement of the excitation functions for $\text{SUPnat}/\text{SUPNi}(\alpha, x)$ reactions with detailed covariance analysis. In *EUROPEAN PHYSICAL JOURNAL A*, 2024, vol. 60, no. 2, art. no. 24. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01247-0>, Registrované v: WOS
75. [1.1] SITKOV, D. A. - TROFIMOV, L. E. - FILONCHIK, P. G. - TITARENKO, Yu. E. - BARABANOV, A. L. Analysis of the Cross Sections of the Formation of Nuclei in Isomeric States in (n, p) Reactions. In *PHYSICS OF PARTICLES AND NUCLEI LETTERS*, 2024, vol. 21, no. 4, pp. 567-570. ISSN 1547-4771. Dostupné na: <https://doi.org/10.1134/S1547477124700602>, Registrované v: WOS
76. [1.1] SOSNIN, N. V. - LEDERER-WOODS, C. - GARG, R. - BATTINO, U. - CRISTALLO, S. - DIETZ, M. - HEINITZ, S. - KRTICKA, M. - REIFARTH, R. - VALENTA, S. - VESCOVI, D. - ABERLE, O. - ALCAYNE, V. - AMADUCCI, S. - ANDRZEJEWSKI, J. - AUDOUIN, L. - BECARES, V. - BABIANO-SUAREZ, V. - BACAK, M. - BARBAGALLO, M. - BECVAR, F. - BELLIA, G. - BERTHOUMIEUX, E. - BILLOWES, J. - BOSNAR, D. - BROWN, A. - BUSO, M. - CAAMANO, M. - CABALLERO, L. - CALVINO, F. - CALVIANI, M. - CANO-OTT, D. - CASANOVAS, A. - CERUTTI, F. - CHEN, Y. H. - CHIAVERI, E. - COLONNA, N. - CORTES, G. - CORTES-GIRALDO, M. A. - COSENTINO, L. - DAMONE, L. A. - DIAKAKI, M. - DOMINGO-PARDO, C. - DRESSLER, R. - DUPONT, E. - DURAN, I. - ELEME, Z. - FERNANDEZ-DOMINGUEZ, B. - FERRARI, A. - FINOCCHIARO, P. Measurement of the $\text{SUP78}/\text{SUPSe}(n, \gamma)\text{SUP79}/\text{SUPSe}$ cross section up to 600 keV at the n_{TOF} facility at CERN. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 6, art. no. 065805. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.065805>, Registrované v: WOS
77. [1.1] SUGIHARA, K. - MEIGO, S. - IWAMOTO, H. - MAEKAWA, F. Measurement of nuclide production cross sections for GeV-region proton-induced reactions on natMg , natSi , natFe , natCu , and natZn . In *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS*, 2024, vol. 549, no., art. no. 165299. ISSN 0168-583X. Dostupné na: <https://doi.org/10.1016/j.nimb.2024.165299>, Registrované v: WOS
78. [1.1] TAMASHIRO, A. S. - BURCHER, S. - HARKE, J. T. - PIERSON, B. - DUARTE, J. G. - MISHNAYOT, Y. - PADGETT, S. W. - ZHAO, P. - GHARIBYAN, N. - GODA, J. - GREENWOOD, L. - HAYES, D. - HUTCHINSON, J. - HARWARD, N. - ROBERTS, K. - SLAVIK, G. - WALKER, J. New constraint on the $^{237}\text{Np}(n, \gamma)^{238}\text{Np}$ integral cross section using the Godiva-IV critical

- assembly. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 1, art. no. 014626. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.014626>, Registrované v: WOS
79. [1.1] TARKANYI, F. - HERMANNE, A. - IGNATYUK, A. V. - DITROI, F. - TAKACS, S. - CAPOTE-NOY, R. Extension of evaluated cross section database for charged particle monitor reactions. In *JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY*, 2024, vol. 333, no. 8, pp. 4243-4331. ISSN 0236-5731. Dostupné na: <https://doi.org/10.1007/s10967-024-09513-7>, Registrované v: WOS
80. [1.1] TIAN, G. - LIU, B. - CHEN, Z. - SHI, F. - HAN, R. - SUN, H. - ZHANG, Z. - LI, Q. - LUO, P. Fast neutron induced reaction cross sections on natural manganese and tantalum. In *APPLIED RADIATION AND ISOTOPES*, 2024, vol. 204, no., art. no. 111150. ISSN 0969-8043. Dostupné na: <https://doi.org/10.1016/j.apradiso.2023.111150>, Registrované v: WOS
81. [1.1] TOTH, A. - GYURKY, Gy. - PAPP, E. - SZUCS, T. Experimental SUP7/SUPBe production cross section from the SUP7/SUPLi(p, n)SUP7/SUPBe reaction at $E_p=3.5-13$ MeV. In *NUCLEAR PHYSICS A*, 2024, vol. 1041, no., art. no. 122778. ISSN 0375-9474. Dostupné na: <https://doi.org/10.1016/j.nuclphysa.2023.122778>, Registrované v: WOS
82. [1.1] UKON, N. - AIKAWA, M. - KOMORI, Y. - HABA, H. - DITROI, F. - TAKACS, S. Excitation functions of the α -particle-induced reactions on natCr up to 50 MeV. In *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS*, 2024, vol. 552, no., art. no. 165348. ISSN 0168-583X. Dostupné na: <https://doi.org/10.1016/j.nimb.2024.165348>, Registrované v: WOS
83. [1.1] VAN HOEY, Olivier - VANHAVERE, Filip. Performance assessment and further optimization of the activation based criticality dosimetry system at the Belgian nuclear research centre SCK CEN. In *RADIATION MEASUREMENTS*, 2024, vol. 174, no., art. no. 107142. ISSN 1350-4487. Dostupné na: <https://doi.org/10.1016/j.radmeas.2024.107142>, Registrované v: WOS
84. [1.1] VOROBYEV, A. S. - GAGARSKI, A. M. - SHCHERBAKOV, O. A. - VAISHNENE, L. A. - TYAGELSKAYA, A. M. - OLKHOVICH, N. M. - BARABANOV, A. L. Measurement of the Cross Section for the Neutron-Induced Fission of SUP237/SUPNp Nuclei in the Energy Range of 0.3-500 MeV. In *JETP LETTERS*, 2024, vol. 120, no. 6, pp. 373-380. ISSN 0021-3640. Dostupné na: <https://doi.org/10.1134/S0021364024602987>, Registrované v: WOS
85. [1.1] VOROBYEV, Alexander S. - GAGARSKI, Alexei M. - SHCHERBAKOV, Oleg A. - VAISHNENE, Larisa A. - BARABANOV, Alexey L. - KUZ';MINA, Tatiana E. Measurement of the neutron-induced fission cross section of SUP243 /SUPAm relative to SUP235/SUPU in the neutron energy range of 0.3-500 MeV and its analysis. In *EUROPEAN PHYSICAL JOURNAL A*, 2024, vol. 60, no. 5, art. no. 117. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01334-2>, Registrované v: WOS
86. [1.1] WANG, Wenye - WANG, Jimin - HAN, Yinlu - XI, Tao - JIN, Yongli - XU, Ruirui - YUE, Zhang. Calculations and analysis of $n+\text{SUP52}/\text{SUPCr}$ reactions below 20 MeV. In *JOURNAL OF NUCLEAR SCIENCE AND TECHNOLOGY*, 2024, vol. 61, no. 2, pp. 237-250. ISSN 0022-3131. Dostupné na: <https://doi.org/10.1080/00223131.2023.2294191>, Registrované v: WOS
87. [1.1] WRIGHT, T. - SMITH, A. G. - SOSNIN, N. V. - BENNETT, S. A. - DAVIES, P. J. - POPESCU, A. V. - RYAN, J. A. - SEKHAR, A. - WARREN, S. - ABERLE, O. - AMADUCCI, S. - ANDRZEJEWSKI, J. - AUDOUIN, L. - BACAK, M. - BALIBREA, J. - BARBAGALLO, M. - BECVAR, F. - BERTHOUMIEUX, E. - BILLOWES, J. - BOSNAR, D. - BROWN, A. - CAAMANO, M. - CALVINO, F. -

CALVIANI, M. - CANO-OTT, D. - CARDELLA, R. - CASANOVAS, A. - CERUTTI, F. - CHEN, Y. H. - CHIAVERI, E. - COLONNA, N. - CORTES, G. - CORTES-GIRALDO, M. A. - COSENTINO, L. - DAMONE, L. A. - DIAKAKI, M. - DOMINGO-PARDO, C. - DRESSLER, R. - DUPONT, E. - DURAN, I. - FERNANDEZ-DOMINGUEZ, B. - FERRARI, A. - FERREIRA, P. - FINOCCHIARO, P. - FURMAN, V. - GOEBEL, K. - GARCIA, A. R. - GAWLIK-RAMIEGA, A. - GILARDONI, S. - GLODARIU, T. Measurement of the prompt fission γ -rays from slow neutron-induced fission of $^{235}\text{U}/^{238}\text{U}$ with STEFF. In *EUROPEAN PHYSICAL JOURNAL A*, 2024, vol. 60, no. 3, art. no. 70. ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/s10050-024-01277-8>, Registrované v: WOS

88. [1.1] XIA, Hou-Qiong - XU, Rui-Rui - LIU, Ping - CAPOTE, Roberto - TIAN, Yuan - TAO, Xi - WU, Xiao-Fei - ZHANG, Yue - GE, Zhi-Gang - SHU, Neng-Chuan - FENG, Song. Evaluation of neutron cross sections of $^{238}\text{U}/^{235}\text{U}$ based on the Unified-Monte-Carlo-B method. In *CHINESE PHYSICS C*, 2024, vol. 48, no. 7, art. no. 074101. ISSN 1674-1137. Dostupné na: <https://doi.org/10.1088/1674-1137/ad432c>, Registrované v: WOS

89. [1.1] XUE, Jie-Ming - FENG, Song - CHEN, Yong-Hao - YI, Han - XIAO, Min - CHENG, Pin-Jing - LI, Xin-Xiang - LIU, Rong - YANG, Yi-Wei - HAN, Zi-Jie - ZHAO, Da-Jun - WANG, Hao-Qiang - LI, Bao-Qian - ZHAO, Ji-Rong - TANG, Lei-Xun - LUO, Wen - ZHENG, Bo. Measurement of the neutron-induced total cross sections of $^{238}\text{U}/^{235}\text{U}$ from 0.3 eV to 20 MeV on the Back-n at CSNS. In *NUCLEAR SCIENCE AND TECHNIQUES*, 2024, vol. 35, no. 2, art. no. 18. ISSN 1001-8042. Dostupné na: <https://doi.org/10.1007/s41365-024-01370-z>, Registrované v: WOS

90. [1.1] YAMANO, Naoki - CHIBA, Satoshi - INAKURA, Tsunenori - ISHIZUKA, Chikako. Effects of correlations in uncertainties of total cross section and elastic angular distribution for a deep penetration of 14-MeV neutrons in Cu. In *JOURNAL OF NUCLEAR SCIENCE AND TECHNOLOGY*, 2024, vol. 61, no. 1, pp. 74-83. ISSN 0022-3131. Dostupné na: <https://doi.org/10.1080/00223131.2023.2272759>, Registrované v: WOS

91. [1.1] YANG, Sung-Chul - YOON, Sang Pil - SONG, Tae-Yung - KIM, Guinyun. Production cross sections of radionuclides in the proton induced reactions on natural iron with the proton energy of 57 MeV. In *NUCLEAR ENGINEERING AND TECHNOLOGY*, 2024, vol. 56, no. 5, pp. 1796-1802. ISSN 1738-5733. Dostupné na: <https://doi.org/10.1016/j.net.2023.12.035>, Registrované v: WOS

92. [1.1] ZMESKAL, Marek - KOSTAL, Michal - SIMON, Jan - CHVATIL, David - KRIST, Pavel. Experimental validation of $^{23}\text{U}/^{23}\text{Na}(\gamma, n)^{22}\text{U}/^{23}\text{Na}$ cross section. In *APPLIED RADIATION AND ISOTOPES*, 2024, vol. 205, no., art. no. 111194. ISSN 0969-8043. Dostupné na: <https://doi.org/10.1016/j.apradiso.2024.111194>, Registrované v: WOS

93. [1.1] ZOHAR, Andrej - TRKOV, Andrej - HJALMARSSON, Anders - STANCAR, Ziga - ZEROVNIK, Gasper - MALEC, Jan - SNOJ, Luka. Evaluation of cross sections for fast ion reactions with beryllium in helium and hydrogen fusion plasmas. In *NUCLEAR FUSION*, 2024, vol. 64, no. 7, art. no. 076040. ISSN 0029-5515. Dostupné na: <https://doi.org/10.1088/1741-4326/ad4db5>, Registrované v: WOS

94. [1.1] ZU, Tiejun - WU, Chengyao - FENG, Hao - MA, Yutu - CAO, Liangzhi - WU, Hongchun - TANG, Yongqiang. Implementation of one-phonon correction method to calculate inelastic scattering law data in nuclear data processing code NECP-Atlas. In *PROGRESS IN NUCLEAR ENERGY*, 2024, vol. 177, no., art. no. 105420. ISSN 0149-1970. Dostupné na:

- ADCA656 <https://doi.org/10.1016/j.pnucene.2024.105420>, Registrované v: WOS
 OU-YANG, W. - WEIS, Martin Jr. - MANAKA, T. - IWAMOTO, M. Study of relaxation process of dipalmitoyl phosphatidylcholine monolayers at air-water interface: Effect of electrostatic energy. In *Journal of Chemical Physics*, 2011, vol. 134, no. 15, art. no. 154709. (2010: 2.921 - IF, Q1 - JCR, 1.777 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/1.3581890>
 Citácie:
 1. [1.2] SAMYGINA, V. R. - VLASKINA, A. V. - PICHKUR, E. B. - SHCHERBAKOV, D. N. - MORDVINOVA, E. D. - VOLOSNIKOVA, E. A. - MALAKHOVA, Y. N. - NIKOLAEV, K. V. - ROGACHEV, A. V. - MALYSHEVA, N. E. - NOVIKOVA, N. N. - KOVALCHUK, M. V. Study of the Interaction of the S-Protein of SARS-CoV-2 with Isolated Lipid Model Membranes. In *Crystallography Reports*, 2024-12-01, 69, 6, pp. 931-938. ISSN 10637745. Dostupné na: <https://doi.org/10.1134/S1063774524602314>, Registrované v: SCOPUS
- ADCA657 OZTÜRK, Sultan - İCİN, Kürşat** - GENÇTÜRK, Merve - GÖBÜLÜK, Metin - TOPAL, Uğur - ŠVEC, Peter. Surface and structural characterization of amorphous Fe,Co-based melt-spun ribbons subjected to heat treatment processes. In *Journal of Non-Crystalline Solids*, 2019, vol. 522, no. 11, art. no. 119592. (2018: 2.600 - IF, Q1 - JCR, 0.689 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0022-3093. Dostupné na: <https://doi.org/10.1016/j.jnoncrysol.2019.119592>
 Citácie:
 1. [1.1] JIA, Qianqian - LI, Man - AN, Zhenguo - WANG, Ping - ZHANG, Jingjie. Glass-cobalt Janus shell hollow microspheres: Shell structure dependence of mechanical strength and electromagnetic property. In *CHEMICAL ENGINEERING JOURNAL*, 2024, vol. 483, no., art. no. 148748. ISSN 1385-8947. Dostupné na: <https://doi.org/10.1016/j.cej.2024.148748>, Registrované v: WOS
 2. [1.1] KHATUN, H. - NATH, S. D. - SIKDER, S. S. Kinetics of crystallization and soft magnetic properties of Co₇₂Fe₈B₁₀Si₁₀ 72 Fe 8 B 10 Si 10 amorphous alloys. In *PHYSICA B-CONDENSED MATTER*, 2024, vol. 691, no., art. no. 416300. ISSN 0921-4526. Dostupné na: <https://doi.org/10.1016/j.physb.2024.416300>, Registrované v: WOS
 3. [1.1] NASCIMENTO, Luciano - LEAL, Elvia - GUEDES, Danyelle Garcia - COSTA, Meirilany Rozeno - DA SILVA, Adriano Lima - GUEDES, Gabryella Garcia - DE MELO COSTA, Ana Cristina Figueiredo. The amorphous phase of Co₆₇Si₂₃B₁₀ alloy produced by mechanical alloying. In *MATERIA-RIO DE JANEIRO*, 2024, vol. 29, no. 2, art. no. e20240228. ISSN 1517-7076. Dostupné na: <https://doi.org/10.1590/1517-7076-RMAT-2024-0228>, Registrované v: WOS
 4. [1.1] ZHANG, Shuyan - MA, Danyue - LIANG, Xiubing - CHEN, Changjiu. Influence of Al addition on the microstructure and properties of Fe₂₅Co₂₅Ni₂₅(Si_{0.3}B_{0.7})₂₅ high entropy metallic glass. In *INTERMETALLICS*, 2024, vol. 169, no., art. no. 108304. ISSN 0966-9795. Dostupné na: <https://doi.org/10.1016/j.intermet.2024.108304>, Registrované v: WOS
 5. [1.1] ZHANG, Shuyan - MA, Danyue - SHEN, Peipei - CHEN, Hua - ZHANG, Zhibin. Experimental investigation of comprehensive performance by tailoring the proportion of late transition metals in quinary Fe-Co-Ni-Si-B amorphous alloys. In *JOURNAL OF NON-CRYSTALLINE SOLIDS*, 2024, vol. 645, no., art. no. 123203. ISSN 0022-3093. Dostupné na: <https://doi.org/10.1016/j.jnoncrysol.2024.123203>, Registrované v: WOS

6. [1.1] ZHANG, Zhibin - ZHANG, Shuyan - JING, Zhiyuan - CHEN, Changjiu - LIANG, Xiubing. Effects of rare-earth element Y content on the microstructure and properties of quinary Al-Ni-Zr-Co-Y high entropy metallic glasses. In *INTERMETALLICS*, 2024, vol. 165, no., art. no. 108164. ISSN 0966-9795. Dostupné na: <https://doi.org/10.1016/j.intermet.2023.108164>, Registrované v: WOS

7. [1.2] SARASWATHI, P. - MADESWARAN, S. Study on magnetic and structural properties of Fe₆₅Co₃₅ soft magnetic alloy prepared by arc melting and subsequent annealing. In *Results in Materials*, 2024-03-01, 21, pp. Dostupné na: <https://doi.org/10.1016/j.rinma.2023.100509>, Registrované v: SCOPUS

8. [1.2] ZHANG, Shuyan - MA, Danyue - LIANG, Xiubing - CHEN, Changjiu. Influence of Al addition on the microstructure and properties of Fe₂₅Co₂₅Ni₂₅(Si_{0.3}B_{0.7})₂₅ high entropy metallic glass. In *Intermetallics*, 2024-06-01, 169, pp. ISSN 09669795. Dostupné na:

<https://doi.org/10.1016/j.intermet.2024.108304>, Registrované v: SCOPUS

ADCA658 ÖZTÜRK, Sultan - İÇİN, Kürşat** - GENÇTÜRK, Merve - GÖBÜLÜK, Metin - ŠVEC, Peter. Effect of heat treatment process on the structural and soft magnetic properties of Fe₃₈Co₃₈Mo₈B₁₅Cu ribbons. In *Journal of Non-Crystalline Solids*, 2020, vol. 527, no. 11, art. no. 119745. (2019: 2.929 - IF, Q1 - JCR, 0.712 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0022-3093. Dostupné na: <https://doi.org/10.1016/j.jnoncrysol.2019.119745>

Citácie:

1. [1.1] LIU, Jiaqi - WANG, Pu - LI, Xiaoyu - ZHANG, Jiaquan. FeSiBCCr bulk metallic glasses with excellent soft magnetic properties prepared using spark plasma sintering technology. In *JOURNAL OF NON-CRYSTALLINE SOLIDS*, 2024, vol. 645, no., art. no. 123205. ISSN 0022-3093. Dostupné na:

<https://doi.org/10.1016/j.jnoncrysol.2024.123205>, Registrované v: WOS

2. [1.2] SARASWATHI, P. - MADESWARAN, S. Study on magnetic and structural properties of Fe₆₅Co₃₅ soft magnetic alloy prepared by arc melting and subsequent annealing. In *Results in Materials*, 2024-03-01, 21, pp. Dostupné na: <https://doi.org/10.1016/j.rinma.2023.100509>, Registrované v: SCOPUS

ADCA659 PALAIA, Ivan - GOYAL, Abhay - DEL GADO, Emanuela - ŠAMAJ, Ladislav - TRIZAC, Emmanuel**. Like-Charge Attraction at the Nanoscale: Ground-State Correlations and Water Deconstructing. In *Journal of Physical Chemistry B*, 2022, vol. 126, no. 16, p. 3143-3149. (2021: 3.466 - IF, Q3 - JCR, 0.795 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1520-6106. Dostupné na: <https://doi.org/10.1021/acs.jpcc.2c00028>

Citácie:

1. [1.1] ARFAN, Muhammad - TELLES, Igor M. - DOS SANTOS, Alexandre P. Strong attraction between like-charged metal nanoparticles mediated by multivalent counterions. In *JOURNAL OF MOLECULAR LIQUIDS*, 2024, vol. 401, no., art. no. 124527. ISSN 0167-7322. Dostupné na:

<https://doi.org/10.1016/j.molliq.2024.124527>, Registrované v: WOS

2. [1.1] NETO, Osvaldo Trigueiro - OLSEN, Kristian Huseby - WENSINK, Henricus H. - PACAKOVA, Barbara - FOSSUM, Jon Otto. Macroscopic observation of a first order one-dimensional swelling-deswelling transition in a nanolayered material. In *EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS*, 2024, vol. 233, no. 17-18, pp. 2809-2819. ISSN 1951-6355. Dostupné na:

<https://doi.org/10.1140/epjs/s11734-024-01381-2>, Registrované v: WOS

3. [1.1] ZHOU, S. Variability of entropy force and its coupling with electrostatic and steric hindrance interactions. In *JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT*, 2024, vol. 2024, no. 4, art. no. 043202. ISSN

1742-5468. Dostupné na: <https://doi.org/10.1088/1742-5468/ad363e>,

Registrované v: WOS

- ADCA660 PALOTÁS, Krisztián** - RÓZSA, L. - SIMON, E. - UDVARDI, L. - SZUNYOGH, L. Spin-polarized scanning tunneling microscopy characteristics of skyrmionic spin structures exhibiting various topologies. In *Physical Review B*, 2017, vol. 96, no. 2, art. no. 024410. (2016: 3.836 - IF, Q2 - JCR, 2.339 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.96.024410>

Citácie:

1. [1.1] MOHANTY, Shaktiranjana - OJHA, Brindaban - SHARMA, Minaxi - BEDANTA, Subhankar. Observation of topological hall effect and skyrmions in Pt/Co/Ir/Co/Pt system. In *MATERIALS RESEARCH EXPRESS*, 2024, vol. 11, no. 4, art. no. 046406. Dostupné na: <https://doi.org/10.1088/2053-1591/ad3f7a>,

Registrované v: WOS

2. [1.1] SILVA, R. C. - SILVA, R. L. - MOREIRA, J. C. - MOURA-MELO, W. A. - PEREIRA, A. R. Channeling skyrmions: Suppressing the skyrmion Hall effect in ferrimagnetic nanostripes. In *JOURNAL OF APPLIED PHYSICS*, 2024, vol. 135, no. 18, art. no. 183902. ISSN 0021-8979. Dostupné na:

<https://doi.org/10.1063/5.0206403>, Registrované v: WOS

- ADCA661 PALOTÁS, Krisztián - ÓVÁRI, László - VÁRI, Gábor - GUBÓ, Richárd - FARKAS, Arnold P. - KISS, János - BERKÓ, András - KÓNYA, Zoltán. Au-Rh Surface Structures on Rh(111): DFT Insights into the Formation of an Ordered Surface Alloy. In *Journal of Physical Chemistry C*, 2018, vol. 122, no. 39, p. 22435-22447. (2017: 4.484 - IF, Q1 - JCR, 2.135 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.8b05744>

Citácie:

1. [1.1] HOGAN, Conor - SETTE, Andrea - SAROKA, Vasil A. - COLONNA, Stefano - FLAMMINI, Roberto - FLOREAN, Laurita - BERNARD, Romain - MASSON, Laurence - PREVOT, Geoffroy - RONCI, Fabio. Double-pentagon silicon chains in a quasi-1D Si/Ag(001) surface alloy. In *NATURE COMMUNICATIONS*, 2024, vol. 15, no. 1, art. no. 9242. Dostupné na:

<https://doi.org/10.1038/s41467-024-53589-4>, Registrované v: WOS

- ADCA662 PANDA, A.K. - KUMARI, S. - CHATTORAJ, I. - ŠVEC, Peter - MITRA, A. Effect of Fe addition on the crystallization behaviour and Curie temperature of CoCrSiB-based amorphous alloys. In *Philosophical Magazine*, 2005, vol. 85, no. 17, p. 1835-1845. Dostupné na: <https://doi.org/10.1080/14786430500098934>

Citácie:

1. [1.1] LIU, Jia-hao - LIU, Rui-rui - ZHANG, Xiao-lin - WU, Yue - ZHOU, Hai-tao. A study of crystallization kinetics, phase formation and magnetic properties of (FeCoNiMn_{0.25}Al_{0.25})₇₅Si₁₃B₁₂ high-entropy metallic glass. In *INTERMETALLICS*, 2024, vol. 164, no., art. no. 108086. ISSN 0966-9795. Dostupné na: <https://doi.org/10.1016/j.intermet.2023.108086>, Registrované v:

WOS

2. [1.1] LOPACHAK, Mariia - BOICHYSHYN, Lidiya - PANDIAK, Nataliya - NOSENKO, Viktor. Chapter 30 Iron and Chromium Influence on Crystallization Kinetics of Cobalt-Based Amorphous Alloys. In *NANOMATERIALS AND NANOCOMPOSITES, NANOSTRUCTURES, AND THEIR APPLICATIONS, NANO-2023 : 11th International Conference Nanotechnology and Nanomaterials*, 2024, vol. 253, no., pp. 443-452. ISSN 0930-8989. Dostupné na:

https://doi.org/10.1007/978-3-031-67519-5_30, Registrované v: WOS

3. [1.1] ZHANG, Shuyan - SHI, Minxia - ZHANG, Zhibin - QUAN, Wei. Effect of

Fe/Co ratio on the microstructure and properties of a typical FeCo-based amorphous alloys. In JOURNAL OF NON-CRYSTALLINE SOLIDS, 2024, vol. 628, no., art. no. 122858. ISSN 0022-3093. Dostupné na: <https://doi.org/10.1016/j.jnoncrysol.2024.122858>, Registrované v: WOS

4. [1.2] LOPACHAK, Mariia - BOICHYSHYN, Lidiya - PANDIAK, Nataliya - NOSENKO, Viktor. *Iron and Chromium Influence on Crystallization Kinetics of Cobalt-Based Amorphous Alloys. In Springer Proceedings in Physics, 2024-01-01, 253 SPP, pp. 443-452. ISBN [9783031675188]. ISSN 09308989. Dostupné na: https://doi.org/10.1007/978-3-031-67519-5_30, Registrované v: SCOPUS*

5. [1.2] NYKYRUY, Yulia - MUDRY, Stepan - KULYK, Yuriy - SHTABLAVYI, Ihor. *Nanocrystallization Behaviour of Amorphous Co₆₇Fe₄Cr₇Si₈B₁₄ Alloy. In Defect and Diffusion Forum, 2024-01-01, 431, pp. 3-11. ISSN 10120386. Dostupné na: <https://doi.org/10.4028/p-O8W6Nq>, Registrované v: SCOPUS*

ADCA663 PARR, E. ** - SMITH, J. F. - GREENLEES, P. T. - AURANEN, K. - BUTLER, P. A. - CHAPMAN, R. - COX, D. M. - CULLEN, D. M. - GAFFNEY, L. P. - GRAHN, T. - GREGOR, E. T. - GROCUIT, L. - HERZÁŇ, Andrej - HERZBERG, R.-D. - HODGE, D. - JAKOBSSON, U. - JULIN, R. - JUUTINEN, S. - KEATINGS, J. - KONKI, J. - LEINO, M. - MCKEE, P. P. - MCPPEAKE, C. - MENGONI, D. - MISTRY, A. K. - MULHOLLAND, K. F. - NARA SINGH, B. S. - O'NEILL, G. G. - PAKARINEN, J. - PAPADAKIS, P. - PARTANEN, J. - PEURA, P. - RAHKILA, P. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉ, J. - SCHECK, M. - SCHOLEY, C. - SICILIANO, M. - SMOLEN, M. - SORRI, J. - SPAGNOLETTI, P. - SPOHR, K. M. - STOLZE, S. - TAYLOR, M. J. - UUSITALO, J. α -decay spectroscopy of the N=130 isotones ²¹⁸Ra and ²²⁰Th: Mitigation of α -particle energy summing with implanted nuclei. In Physical Review C, 2019, vol. 100, no. 4, art. no. 044323. (2018: 3.132 - IF, Q2 - JCR, 1.502 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.100.044323>

Citácie:

1. [1.1] BARA, S. - JAJCISINOVA, E. - COCOLIOS, T. E. - ANDEL, B. - ANTALIC, S. - CAMAIANI, A. - COSTACHE, C. - DOCKX, K. - FAROOQ-SMITH, G. J. - KELLERBAUER, A. - LICA, R. - LYNCH, K. M. - MARINI, P. - PIERSA-SILKOWSKA, M. - STEGEMANN, S. T. - STRYJCZYK, M. - TREASA, D. - VAN DUPPEN, P. *Half-life determination of ²¹⁵At and ²²¹Ra with high-purity radioactive ion beams. In APPLIED RADIATION AND ISOTOPES, 2024, vol. 208, no., art. no. 111289. ISSN 0969-8043. Dostupné na: <https://doi.org/10.1016/j.apradiso.2024.111289>, Registrované v: WOS*

ADCA664 PARR, E. - SMITH, J. F. - GREENLEES, P. T. - BUTLER, P. A. - AURANEN, K. - CHAPMAN, R. - COX, D. M. - CULLEN, D. M. - GAFFNEY, L. P. - GRAHN, T. - GREGOR, E. T. - GROCUIT, L. - HERZÁŇ, Andrej - HERZBERG, R.-D. - HODGE, D. - JAKOBSSON, U. - JULIN, R. - JUUTINEN, S. - KEATINGS, J. M. - KONKI, J. - LEINO, M. - MCKEE, P. P. - MCPPEAKE, C. - MENGONI, D. - MISTRY, A. K. - NARA SINGH, B. S. - O'NEILL, G. G. - PAKARINEN, J. - PAPADAKIS, P. - PARTANEN, J. - PEURA, P. - RAHKILA, P. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - SCHECK, M. - SCHOLEY, C. - SICILIANO, M. - SMOLEN, M. - SORRI, J. - SPAGNOLETTI, P. - SPOHR, K. M. - STOLZE, S. - TAYLOR, M. J. - UUSITALO, J. Single-particle states and parity doublets in odd-Z ²²¹Ac and ²²⁵Pa from α -decay spectroscopy. In Physical Review C, 2022, vol. 105, no. 3, art. no. 034303. (2021: 3.199 - IF, Q2 - JCR, 1.317 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.105.034303>

Citácie:

1. [1.1] VESIC, Jelena - VENCELJ, Matjaz. *Nuclear Physics Opportunities at European Small-Scale Facilities*. In *QUANTUM BEAM SCIENCE*, 2024, vol. 8, no. 1, art. no. 4. Dostupné na: <https://doi.org/10.3390/qubs8010004>, Registrované v: WOS

ADCA665

PAUWELS, D. - RADULOV, D. - WALTERS, W. B. - DARBY, I. G. - DE WITTE, H. - DIRIKEN, J. - FEDOROV, D. V. - FEDOSSEEV, V. N. - FRAILE, L. M. - HUYSE, M. - KOSTER, U. - MARSH, B. A. - POPESCU, L. - SELIVERSTOV, M. D. - SJODIN, A. M. - VAN DEN BERGH, P. - VAN DE WALLE, J. - VAN DUPPEN, P. - VENHART, Martin - WIMMER, K. Gamow-Teller decay population of ^{64}Ni levels in the decay of ^{64}Co . In *Physical Review C*, 2012, vol. 86, no. 6, at. no. 064318. (2011: 3.308 - IF, 2.962 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.86.064318>

Citácie:

1. [1.1] LEONI, S. - FORNAL, B. - BRACCO, A. - TSUNODA, Y. - OTSUKA, T. *Multifaceted character of shape coexistence phenomena in atomic nuclei*. In *PROGRESS IN PARTICLE AND NUCLEAR PHYSICS*, 2024, vol. 139, no., art. no. 104119. ISSN 0146-6410. Dostupné na:

<https://doi.org/10.1016/j.ppnp.2024.104119>, Registrované v: WOS

2. [1.1] LEONI, S. - FORNAL, B. - MARGINEAN, N. - WILSON, J. N. *Shape isomers: status and perspectives across the nuclear chart*. In *EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS*, 2024, vol. 233, no. 5, pp. 1061-1074. ISSN 1951-6355. Dostupné na: <https://doi.org/10.1140/epjs/s11734-024-01175-6>, Registrované v: WOS

3. [1.1] ONG, W.J. - SCHATZ, H. - KRAVVARIS, K. - AHN, S. - CHILDERS, K. - CRIDER, B. P. - DOMBOS, A. C. - LANGER, C. - LEWIS, R. - LIDDICK, S. N. - LYONS, S. - MEISEL, Z. - MONTES, F. - PEREIRA, J. - RICHMAN, D. - SCHMIDT, K. - SPYROU, A. β -delayed neutron emission of ^{64}Mn , ^{62}Mn , and ^{65}Fe . In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 2, art. no. 024321. ISSN 2469-9985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.110.024321>, Registrované v: WOS

4. [1.1] SEEGER, W. W. von - DEYOUNG, P. A. - SPYROU, A. - KARAMPAGIA, S. - BROWN, E. F. - AHN, S. - CRIDER, B. P. - DOMBOS, A. C. - HITT, G. W. - LANGER, C. - LEWIS, R. - LIDDICK, S. N. - LYONS, S. - MEISEL, Z. - MONTES, F. - NAQVI, F. - ONG, W.J. - PERSCH, C. F. - PEREIRA, J. - SCHATZ, H. - SCHMIDT, K. β -decay feeding intensity distribution of ^{64}Mn . In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 4, art. no. 044312. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.044312>, Registrované v: WOS

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PAWLOWSKI, P. - BRZYCHCZYK, J. - LEIFELS, Y. - TRAUTMANN, W. - ADRICH, P. - HLAVÁČ, Stanislav - VESELSKÝ, Martin. Neutron recognition in the LAND detector for large neutron multiplicity. In *Nuclear Instruments and Methods in Physics Research A. Accelerators, Spectrometers, Detectors and Associated Equipment*, 2012, vol. 694, p. 47-54. (2011: 1.207 - IF, Q2 - JCR, 0.956 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 0168-9002. Dostupné na: <https://doi.org/10.1016/j.nima.2012.07.019>

Citácie:

1. [1.1] KISTLE, Hadyn M. - HUTCHINSON, Jesson D. - DEWJI, Shaheen A. - WELDON, Robert A. - NELSON, Mark A. *Evaluation of neutron dosimetry capabilities with the MC-15 portable multiplicity counter*. In *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED*

- EQUIPMENT, 2024, vol. 1066, no., art. no. 169647. ISSN 0168-9002. Dostupné na: <https://doi.org/10.1016/j.nima.2024.169647>, Registrované v: WOS
- ADCA667 PELET, Yoann - PUTHOOR, Ittoop Vergheese - VENKATACHALAM, Natarajan - WENGEROWSKY, Sören - LONČARIĆ, Martin - NEUMANN, Sebastian Philipp - LIU, Bo - SAMEC, Željko - STIPČEVIĆ, Mario - URSIN, Rupert - ANDERSSON, Erika - RARITY, John G. - AKTAS, Djeylan - JOSHI, Siddarth Koduru**. Unconditionally secure digital signatures implemented in an eight-user quantum network. In New Journal of Physics, 2022, vol. 24, no. 9, art. no. 093038. (2021: 3.716 - IF, Q2 - JCR, 1.371 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ac8e25>
- Citácie:
1. [1.1] BIAN, Jing-Wei - LI, Bing-Hong - XIE, Yuan-Mei - YIN, Hua-Lei - CHEN, Zeng-Bing. Asynchronous measurement-device-independent quantum digital signatures. In PHYSICAL REVIEW A, 2024, vol. 110, no. 1, art. no. 012609. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.012609>, Registrované v: WOS
 2. [1.1] CAO, Xiao-Yu - LI, Bing-Hong - WANG, Yang - FU, Yao - YIN, Hua-Lei - CHEN, Zeng-Bing. Experimental quantum e-commerce. In SCIENCE ADVANCES, 2024, vol. 10, no. 2, art. no. eadk3258. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.adk3258>, Registrované v: WOS
 3. [1.1] CHAPMAN, Joseph C. - ALSHOWKAN, Muneer - QI, Bing - PETERS, Nicholas A. Entanglement-based quantum digital signatures over a deployed campus network. In OPTICS EXPRESS, 2024, vol. 32, no. 5, pp. 7521-7539. ISSN 1094-4087. Dostupné na: <https://doi.org/10.1364/OE.510787>, Registrované v: WOS
 4. [1.1] JING, Xu - QIAN, Cheng - WENG, Chen-Xun - LI, Bing-Hong - CHEN, Zhe - WANG, Chen-Quan - TANG, Jie - GU, Xiao-Wen - KONG, Yue-Chan - CHEN, Tang-Sheng - YIN, Hua-Lei - JIANG, Dong - NIU, Bin - LU, Liang-Liang. Experimental quantum Byzantine agreement on a three-user quantum network with integrated photonics. In SCIENCE ADVANCES, 2024, vol. 10, no. 34, art. no. eadp2877. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.adp2877>, Registrované v: WOS
 5. [1.1] TIAN, Fuyao - LU, Dianjun - WANG, Chengxiang - YAO, Weixin. A public-key quantum group blind signature scheme based on single-qubit rotations. In LASER PHYSICS LETTERS, 2024, vol. 21, no. 3, art. no. 035204. ISSN 1612-2011. Dostupné na: <https://doi.org/10.1088/1612-202X/ad1f50>, Registrované v: WOS
 6. [1.1] XIONG, Siyu - TANG, Bangying - HAN, Hui - HUANG, Jinqian - BAI, Mingqiang - LI, Fangzhao - YU, Wanrong - MO, Zhiwen - LIU, Bo. Efficient Arbitrated Quantum Digital Signature with Multi-Receiver Verification. In ADVANCED QUANTUM TECHNOLOGIES, 2024, vol. 7, no. 11. Dostupné na: <https://doi.org/10.1002/qute.202400110>, Registrované v: WOS
 7. [1.1] XU, Dan - CHEN, Changjia - KIRBY, Brian T. - QIAN, Li. Entanglement Distillation Based on Polarization and Frequency Hyperentanglement. In IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS, 2024, vol. 30, no. 1, art. no. 6400208. ISSN 1077-260X. Dostupné na: <https://doi.org/10.1109/JSTQE.2023.3328874>, Registrované v: WOS
 8. [1.1] ZHAN, Lei - ZHANG, Chun-Hui - LU, Nan - QIAN, Xue-Rui - DING, Hua-Jian - LIU, Jing-Yang - ZHOU, Xing-Yu - WANG, Qin. Experimental quantum digital signature based on heralded single-photon sources. In QUANTUM INFORMATION PROCESSING, 2024, vol. 23, no. 1, art. no. 25. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-023-04235-3>,

Registrované v: WOS

9. [1.1] ZHANG, Yi-Fan - LIU, Wen-Bo - LI, Bing-Hong - YIN, Hua-Lei - CHEN, Zeng-Bing. Continuous-variable quantum digital signatures that can withstand coherent attacks. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 5, art. no. 052613. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.052613>,
Registrované v: WOS

- ADCA668 PICA, Giovanni - MONTECUCCO, Riccardo - ZANETTA, Andrea - ORANSKAIA, Aleksandra - FAINI, Fabiola - PANCINI, Lorenzo - MRKÝVKOVÁ, Naďa, Tesařová - ŠIFFALOVÍČ, Peter - DALLY, Pia - PIROTA, Valentina - LEDINSKY, Martin - DE BASTIANI, Michele - DE WOLF, Stefaan - DORIA, Filippo - SCHWINGENSCHLÖGL, Udo - GRANCINI, Giulia. Unraveling Bulk versus Surface Passivation Effects in Highly Efficient p-i-n Perovskite Solar Cells Using Thiophene-Based Cations. In *Solar RRL*, 2024, vol. 8, no. 9, art. no. 2300681. (2023: 6 - IF, Q1 - JCR, 1.783 - SJR, Q1 - SJR). ISSN 2367-198X. Dostupné na: <https://doi.org/10.1002/solr.202300681>

Citácie:

1. [1.1] SEKAR, Karthick - MANISEKARAN, Ravichandran - NWAKANMA, Onyekachi Michael - BABUDURAI, Mercyrani. Significance of Formamidinium Incorporation in Perovskite Composition and Its Impact on Solar Cell Efficiency: A Mini-Review. In *ADVANCED ENERGY AND SUSTAINABILITY RESEARCH*, 2024, vol. 5, no. 8. ISSN 2699-9412. Dostupné na:

<https://doi.org/10.1002/aesr.202400003>, Registrované v: WOS

- ADCA669 PINČÁK, Richard - BARTOŠ, Erik. With string model to time series forecasting. In *Physica A*, 2015, vol. 436, p. 135-146. (2014: 1.732 - IF, Q2 - JCR, 0.639 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0378-4371. Dostupné na: <https://doi.org/10.1016/j.physa.2015.05.013>

Citácie:

1. [1.1] ABDLKAREEM IBRAHIM, Narjis - SALEHI, Mahdi - AMRAN NAJI AL-REFIAY, Hussien - LARI DASHTBAYAZ, Mahmoud. A Financial Stability Model for Iraqi Companies. In *RISKS*, 2024, vol. 12, no. 9, art. no. 140. Dostupné na:

<https://doi.org/10.3390/risks12090140>, Registrované v: WOS

- ADCA670 PINČÁK, Richard** - BARTOŠ, Erik**. Chemical evolution of protein folding in amino acids. In *Chemical Physics*, 2020, vol. 537, art. no. 110856. (2019: 1.771 - IF, Q3 - JCR, 0.462 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0301-0104. Dostupné na: <https://doi.org/10.1016/j.chemphys.2020.110856>

Citácie:

1. [1.1] DIAO, Kai - RUAN, Chao - WANG, Ranran - LI, Shengke - JIANG, Juli - WANG, Leyong. Chirality based on pillar[n]arenes and its complexes. In *TETRAHEDRON LETTERS*, 2024, vol. 137, no., art. no. 154941. ISSN 0040-4039. Dostupné na: <https://doi.org/10.1016/j.tetlet.2024.154941>, Registrované v: WOS

- ADCA671 PINČÍK, Emil - KOBAYASHI, H. - RUSNÁK, Jaroslav - TAKAHASHI, M. - BRUNNER, Róbert. About electrical properties of passivated SiO₂/Si structures prepared electro-chemically in HClO₄ solutions. In *Applied Surface Science*, 2013, vol. 269, p. 148-154. (2012: 2.112 - IF, Q1 - JCR, 0.913 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2012.10.053>

Citácie:

1. [1.1] YANG, Lei - LV, Xiang - HU, Zechen - YUAN, Shuai - LI, Biao - ZENG, Yuheng - XING, Haiyang - OU, Yali - YE, Jichun - YU, Xuegong - YANG, Deren. Continuous distribution of interface states in n-type double-side poly-Si/ SiO_x passivating contact solar cells. In *SOLAR ENERGY MATERIALS AND SOLAR*

- CELLS, 2024, vol. 276, no., art. no. 113059. ISSN 0927-0248. Dostupné na: <https://doi.org/10.1016/j.solmat.2024.113059>, Registrované v: WOS
- ADCA672 PINČÍK, Emil** - MATSUMOTO, Taketoshi. Progress in applied surface, interface and thin film science 2017 Preface. In Applied Surface Science, 2018, vol. 461, p. 1-2. (2017: 4.439 - IF, Q1 - JCR, 1.093 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2018.07.214>
- Citácie:
1. [1.1] LI, Hang - HE, Jiazhen - WANG, Xiaoqian - LIU, Qi - LUO, Xuemin - WANG, Mingwei - LIU, Jinfeng - LIU, Chengqi - LIU, Yong. Synthesis of Size-Adjustable CsPbBr₃ Perovskite Quantum Dots for Potential Photoelectric Catalysis Applications. In MATERIALS, 2024, vol. 17, no. 7, art. no. 1607. Dostupné na: <https://doi.org/10.3390/ma17071607>, Registrované v: WOS
- ADCA673 PINEDA, Carlos** - DAVALOS, David - VIVIESCAS, Carlos - ROSADO, Antonio. Fuzzy measurements and coarse graining in quantum many-body systems. In Physical Review A, 2021, vol. 104, no. 4, art. no. 042218. (2020: 3.140 - IF, Q2 - JCR, 1.391 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.104.042218>
- Citácie:
1. [1.1] CORREIA, Pedro S. - CARVALHO, Gabriel Dias - DE OLIVEIRA, Thiago R. - DE MELO, Fernando. Canonical Typicality under General Quantum Channels. In PHYSICAL REVIEW LETTERS, 2024, vol. 133, no. 6, art. no. 060401. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.060401>, Registrované v: WOS
- ADCA674 PÍSEČNÝ, Pavol - HUŠEKOVÁ, Kristína - FRÖHLICH, Karol - HARMATHA, L. - ŠOLTÝS, Ján - MACHAJDÍK, Daniel - ESPINOS, J.P. - JERGEL, Matej - JAKABOVIČ, J. Growth of lanthanum oxide films for application as a gate dielectric in CMOS technology. In Materials science in semiconductor processing, 2004, vol. 7, no. 4-6, p. 231-236. Dostupné na: <https://doi.org/10.1016/j.mssp.2004.09.020>
- Citácie:
1. [1.1] CHEN, Wene - CHEN, Weijun - SONG, De - ZHAO, Peng - LI, Ye - LI, Shuhan - WANG, Chongxiao - LIANG, Rongxuan - YUE, JiPeng. A universal gain theory of the multiplying layer in EBCMOS based on elastic and inelastic scattering. In NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, 2024, vol. 551, no., art. no. 165352. ISSN 0168-583X. Dostupné na: <https://doi.org/10.1016/j.nimb.2024.165352>, Registrované v: WOS
2. [1.1] DOUIRI, Hanen - ABID, Marwa - RZOUGA HADDADA, Lamia - BRINI, Layla - TONCELLI, Alessandra - ESSOUKRI BEN AMARA, Najoua - MAALEJ, Ramzi. Strongly Fluorescent Blue-Emitting La₂O₃: Bi³⁺ Phosphor for Latent Fingerprint Detection. In MATERIALS, 2024, vol. 17, no. 17, art. no. 4217. Dostupné na: <https://doi.org/10.3390/ma17174217>, Registrované v: WOS
- ADCA675 PIVARČ, Juraj - LORENZ, R. - MATOUŠEK, Vladislav. Vacuum system of the multipurpose 14 MeV neutron source in Bratislava: design and status. In Vacuum, 1986, vol. 36, no. 7-9, p. 527-529. ISSN 0042-207X. Dostupné na: [https://doi.org/10.1016/0042-207X\(86\)90240-X](https://doi.org/10.1016/0042-207X(86)90240-X)
- Citácie:
1. [1.1] SUN, Binzhe - WANG, Jin - ZHOU, Shaoheng - ZHANG, Yong - JIANG, Jieqiong. An adaptive integral sliding mode control strategy for medical linear accelerator vacuum system. In APPLIED RADIATION AND ISOTOPES, 2024, vol. 210, no., art. no. 111370. ISSN 0969-8043. Dostupné na:

<https://doi.org/10.1016/j.apradiso.2024.111370>, Registrované v: WOS

PIVOLUSKA, Matej - HUBER, Marcus - MALIK, Mehul. Layered quantum key distribution. In *Physical Review A*, 2018, vol. 97, no. 3, art. no. 032312. (2017: 2.909 - IF, Q1 - JCR, 1.288 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.97.032312>

Citácie:

1. [1.1] BALA, Rajni - ASTHANA, Sooryansh - RAVISHANKAR, V. Integrated semi-quantum layered communication. In *IET QUANTUM COMMUNICATION*, 2024, vol. 5, no. 1, pp. 72-87. Dostupné na: <https://doi.org/10.1049/qtc2.12075>, Registrované v: WOS
2. [1.1] CHANDRAN, L. Sunil - GAJJALA, Rishikesh. Graph-theoretic insights on the constructability of complex entangled states. In *QUANTUM*, 2024, vol. 8, no., pp. 1-18. ISSN 2521-327X., Registrované v: WOS
3. [1.1] DEVI, A. R. Usha - SUDHA, H. Akshata - SHENOY, H. Akshata - KARTHIK, H. S. - KARTHIK, B. N. Lorentz invariants of pure three-qubit states. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 7, art. no. 264. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04454-2>, Registrované v: WOS
4. [1.1] GUPTA, Shashank - AGARWAL, Itesh - MOGILIGIDDA, Vijayalaxmi - KRISHNAN, Rajesh Kumar - CHENNURI, Sruthi - AGGARWAL, Deepika - HOODATI, Anwesa - COOPER, Sheroy - SHEIK, Mohammad Bilal - BHAVYA, K. M. - HEGDE, Manasa - KRISHNA, M. Naveen - CHAUHAN, Amit Kumar - KORRAPATI, Mallikarjun - SINGH, Sumit - SINGH, J. B. - SUD, Sunil - GUPTA, Sunil - PANT, Sidhartha - AGRAWAL, Neha - RANJAN, Ashish - MOHAPATRA, Piyush - ROOPAK, T. - AHMAD, Arsh - NANJUNDA, M. - SINGH, Dilip. ChaQra: a cellular unit of the Indian quantum network. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 16752. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-67495-8>, Registrované v: WOS
5. [1.1] LIU, Chao - ZHOU, Shun - GONG, Li-Hua - CHEN, Hua-Ying. Quantum private comparison protocol via 4D layered states and DQC model. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 5, art. no. 156. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04368-z>, Registrované v: WOS
6. [1.1] SAJDE, Harraz - WANG, Yueyan - CONG, Shuang. Unilateral protection scheme for N-qubit GHZ states against decoherence: a resource-efficient approach. In *JOURNAL OF SUPERCOMPUTING*, 2024, vol. 80, no. 12, pp. 17004-17020. ISSN 0920-8542. Dostupné na: <https://doi.org/10.1007/s11227-024-06101-0>, Registrované v: WOS
7. [1.1] WANG, Kai - HOU, Zhaohua - QIAN, Kaiyi - CHEN, Leizhen - KRENN, Mario - ZHU, Shining - MA, Xiao-Song. Entangling Independent Particles by Path Identity. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 23, art. no. 233601. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.233601>, Registrované v: WOS
8. [1.1] WANG, Shuchan - WUNDER, Gerhard. A Causal Model for Quantifying Multipartite Classical and Quantum Correlations. In *2024 IEEE INTERNATIONAL SYMPOSIUM ON INFORMATION THEORY, ISIT 2024 : IEEE International Symposium on Information Theory (ISIT)*, 2024, vol., no., pp. 339-344. ISSN 2157-8095. Dostupné na: <https://doi.org/10.1109/ISIT57864.2024.10619265>, Registrované v: WOS
9. [1.1] ZHAO, Yue - YANG, Yu-Qing - LI, Weibin - SHAO, Xiao-Qiang. Dissipative stabilization of high-dimensional GHZ states for neutral atoms. In

APPLIED PHYSICS LETTERS, 2024, vol. 124, no. 11, art. no. 114001. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0192602>, Registrované v: WOS

10. [1.2] BEGIMBAYEVA, Yenlik - USSATOVA, Olga - ZHAXALYKOV, Temirlan - AKHTANOV, Amir - PASHKEVICH, Ruslan - ARSHIDINOVA, Mukaddas. DEVELOPMENT OF SUPERPOSITION-BASED QUANTUM KEY DISTRIBUTION PROTOCOL IN DECENTRALIZED FULL MESH NETWORKS. In Eastern European Journal of Enterprise Technologies, 132, 6, 9, (2024-01-01. ISSN 17293774. Dostupné na: <https://doi.org/10.15587/1729-4061.2024.318588>, Registrované v: SCOPUS

11. [1.2] CHANDRAN, L. Sunil - GAJJALA, Rishikesh - ILLICKAN, Abraham M. Krenn-Gu Conjecture for Sparse Graphs. In Leibniz International Proceedings in Informatics Lipics, 2024-08-01, 306, pp. ISBN [9783959773355]. ISSN 18688969. Dostupné na: <https://doi.org/10.4230/LIPIcs.MFCS.2024.41>, Registrované v: SCOPUS

ADCA677 PIVOLUSKA, Matej** - PLESCH, Martin** - FARKAS, Máté** - RUŽIČKOVÁ, Natália - FLEGER, Clara - HERRERA VALENCIA, Natalia - MCCUTCHEON, Will - MALIK, Mehul - AGUILAR, Edgar A. Semi-device-independent random number generation with flexible assumptions. In npj Quantum Information, 2021, vol. 7, no. 1, art. no. 50. (2020: 7.385 - IF, Q1 - JCR, 3.397 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2056-6387. Dostupné na: <https://doi.org/10.1038/s41534-021-00387-1>

Citácie:

1. [1.1] CHENG, Jialin - LIANG, Shaocong - QIN, Jiliang - LI, Jiatong - YAN, Zhihui - JIA, Xiaojun - XIE, Changde - PENG, Kunchi. Semi-device-independent quantum random number generator with a broadband squeezed state of light. In NPJ QUANTUM INFORMATION, 2024, vol. 10, no. 1, art. no. 20. Dostupné na: <https://doi.org/10.1038/s41534-024-00814-z>, Registrované v: WOS

2. [1.1] HORODECKI, Jan - MIRONOWICZ, Piotr. Bounding conditional entropy of bipartite states with Bell operators. In PHYSICAL REVIEW A, 2024, vol. 110, no. 5, art. no. 052429. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.052429>, Registrované v: WOS

3. [1.1] LI, Lang - CAI, Minglu - WANG, Tao - TAN, Zicong - HUANG, Peng - WU, Kan - ZENG, Guihua. On-chip source-device-independent quantum random number generator. In PHOTONICS RESEARCH, 2024, vol. 12, no. 7, pp. 1379-1394. ISSN 2327-9125. Dostupné na: <https://doi.org/10.1364/PRJ.506960>, Registrované v: WOS

4. [1.1] NATH, Pingal Pratyush - SAHA, Debashis - HOME, Dipankar - SINHA, Urbasi. Single-System-Based Generation of Certified Randomness Using Leggett-Garg Inequality. In PHYSICAL REVIEW LETTERS, 2024, vol. 133, no. 2, art. no. 020802. ISSN 0031-9007. Dostupné na:

<https://doi.org/10.1103/PhysRevLett.133.020802>, Registrované v: WOS

ADCA678 PIVOLUSKA, Matej - PLESCH, Martin**. Implementation of quantum compression on IBM quantum computers. In Scientific Reports, 2022, vol. 12, no. 1, art. no. 5841. (2021: 4.997 - IF, Q2 - JCR, 1.005 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-022-09881-8>

Citácie:

1. [1.1] HENG, Sengthai - HENG, Sovanmonynuth - KIM, Dongmin - HAN, Youngsun. Robust hybrid qubit plane architecture for enhancing lattice-surgery-based surface codes. In PHYSICAL REVIEW A, 2024, vol. 109, no. 2, art. no. 022440. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.109.022440>, Registrované v: WOS
2. [1.1] MA, Hailan - MOONEY, Gary J. - PETERSEN, Ian R. - HOLLENBERG, Lloyd C. L. - DONG, Daoyi. Quantum autoencoders using mixed reference states. In NPJ QUANTUM INFORMATION, 2024, vol. 10, no. 1, art. no. 86. Dostupné na: <https://doi.org/10.1038/s41534-024-00872-3>, Registrované v: WOS

ADCA679 PLÁVALA, Martin - ZIMAN, Mário. Popescu-Rohrlich box implementation in general probabilistic theory of processes. In Physics Letters A. General Atomic and Solid State Physics, 2020, vol. 384, no. 16, art. no. 126323. (2019: 2.278 - IF, Q2 - JCR, 0.513 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0375-9601. Dostupné na: <https://doi.org/10.1016/j.physleta.2020.126323>

Citácie:

1. [1.1] ARAI, H. - HAYASHI, M. Derivation of standard quantum theory via state discrimination. In NEW JOURNAL OF PHYSICS. ISSN 1367-2630, MAY 1 2024, vol. 26, no. 5, art. no. 053046. Dostupné na:

<https://doi.org/10.1088/1367-2630/ad4d18>, Registrované v: WOS

2. [1.1] ARAI, H. - YU, B.C. - HAYASHI, M. Detecting beyond-quantum nonlocality using standard local quantum observables. In PHYSICAL REVIEW A. ISSN 2469-9926, JUL 10 2024, vol. 110, no. 1, art. no. L010201. Dostupné na:

<https://doi.org/10.1103/PhysRevA.110.L010201>, Registrované v: WOS

ADCA680 PLESCH, Martin - BUŽEK, Vladimír. Efficient compression of quantum information. In Physical Review A, 2010, vol. 81, no. 3, art. no. 032317. (2009: 2.866 - IF, Q2 - JCR, 2.469 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 1050-2947. Dostupné na:

<https://doi.org/10.1103/PhysRevA.81.032317>

Citácie:

1. [1.1] BUHRMAN, Harry - FOLKERTSMA, Marten - LOFF, Bruno - NEUMANN, Niels M. P. State preparation by shallow circuits using feed forward. In QUANTUM, 2024, vol. 8, no., art. no. 14840. ISSN 2521-327X., Registrované v: WOS

2. [1.1] CHEN, Bingren - WU, Hanqing - YUAN, Haomu - WU, Lei - LI, Xin. A novel quantum algorithm for converting between one-hot and binary encodings. In QUANTUM INFORMATION PROCESSING, 2024, vol. 23, no. 6, art. no. 203. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04403-z>, Registrované v: WOS

3. [1.1] RETHINASAMY, Soorya - LABORDE, Margarite L. - WILDE, Mark M. Logarithmic-depth quantum circuits for Hamming weight projections. In PHYSICAL REVIEW A, 2024, vol. 110, no. 5, art. no. 052401. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.052401>, Registrované v: WOS

4. [1.1] SOTNIKOV, Oleg M. - IAKOVLEV, Ilia A. - KIKTENKO, Evgeniy O. - FEDOROV, Aleksey K. - MAZURENKO, Vladimir V. Achieving the volume-law entropy regime with random-sign Dicke states. In PHYSICAL REVIEW A, 2024, vol. 110, no. 6, art. no. 062416. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.110.062416>, Registrované v: WOS

5. [1.1] XU, Qiao - ZHOU, Lin-Xiang - FENG, Tian-Feng - QIU, Shang-Feng - LI, Si-Wu - ZHANG, Wu-Ji - LUO, Hui - ZHOU, Xiao-Qi. Experimental quantum state compression from two identical qubits to a qutrit. In SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY, 2024, vol. 67, no. 7, art. no. 270311. ISSN 1674-7348. Dostupné na: <https://doi.org/10.1007/s11433-023-2361-6>, Registrované v: WOS

ADCA681 PLESCH, Martin - BRUKNER, C. Quantum-state preparation with universal gate decompositions. In Physical Review A, 2011, vol. 83, no. 3, art. no. 032302. (2010:

2.861 - IF, Q1 - JCR, 2.400 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1050-2947. Dostupné na:
<https://doi.org/10.1103/PhysRevA.83.032302>

Citácie:

1. [1.1] AKIBUE, Seiseki - KATO, Go - TANI, Seiichiro. Probabilistic state synthesis based on optimal convex approximation. In *NPJ QUANTUM INFORMATION*, 2024, vol. 10, no. 1, art. no. 3. Dostupné na: <https://doi.org/10.1038/s41534-023-00793-7>, Registrované v: WOS
2. [1.1] ARAUJO, Israel F. - BLANK, Carsten - ARAUJO, Ismael C. S. - DA SILVA, Adenilton J. Low-Rank Quantum State Preparation. In *IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS*, 2024, vol. 43, no. 1, pp. 161-170. ISSN 0278-0070. Dostupné na: <https://doi.org/10.1109/TCAD.2023.3297972>, Registrované v: WOS
3. [1.1] AU-YEUNG, R. - CAMINO, B. - RATHORE, O. - KENDON, V. Quantum algorithms for scientific computing. In *REPORTS ON PROGRESS IN PHYSICS*, 2024, vol. 87, no. 11, art. no. 116001. ISSN 0034-4885. Dostupné na: <https://doi.org/10.1088/1361-6633/ad85f0>, Registrované v: WOS
4. [1.1] BEN-DOV, Matan - SHNAIDEROV, David - MAKMAL, Adi - DALLA TORRE, Emanuele G. Approximate encoding of quantum states using shallow circuits. In *NPJ QUANTUM INFORMATION*, 2024, vol. 10, no. 1, art. no. 65. Dostupné na: <https://doi.org/10.1038/s41534-024-00858-1>, Registrované v: WOS
5. [1.1] BROWN, Christopher - SPANNOVSKY, Michael - TAPPER, Alexander - WILLIAMS, Simon - XIOTIDIS, Ioannis. Quantum pathways for charged track finding in high-energy collisions. In *FRONTIERS IN ARTIFICIAL INTELLIGENCE*, 2024, vol. 7, no., art. no. 1339785. Dostupné na: <https://doi.org/10.3389/frai.2024.1339785>, Registrované v: WOS
6. [1.1] CHEN, Bingren - WU, Hanqing - YUAN, Haomu - WU, Lei - LI, Xin. A novel quantum algorithm for converting between one-hot and binary encodings. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 6, art. no. 203. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04403-z>, Registrované v: WOS
7. [1.1] D'CUNHA, Ruhee - CORTES, Cristian L. - GAGLIARDI, Laura - GRAY, Stephen K. Fragment-based initialization for quantum subspace methods. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 4, art. no. 042613. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.042613>, Registrované v: WOS
8. [1.1] D'CUNHA, Ruhee - OTTEN, Matthew - HERMES, Matthew R. - GAGLIARDI, Laura - GRAY, Stephen K. State Preparation in Quantum Algorithms for Fragment-Based Quantum Chemistry. In *JOURNAL OF CHEMICAL THEORY AND COMPUTATION*, 2024, vol. 20, no. 8, pp. 3121-3130. ISSN 1549-9618. Dostupné na: <https://doi.org/10.1021/acs.jctc.3c01283>, Registrované v: WOS
9. [1.1] DAIMON, Shunsuke - MATSUSHITA, Yu-ichiro. Quantum circuit generation for amplitude encoding using a transformer decoder. In *PHYSICAL REVIEW APPLIED*, 2024, vol. 22, no. 4, art. no. L041001. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.22.L041001>, Registrované v: WOS
10. [1.1] FANG, Cheng - CHANG, Yan. Quantum neural network with privacy protection of input data and training parameters. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 3, art. no. 035111. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad2146>, Registrované v: WOS
11. [1.1] FENIOU, Cesar - ADJOUA, Olivier - CLAUDON, Baptiste -

- ZYLBERMAN, Julien - GINER, Emmanuel - PIQUEMAL, Jean-Philip. Sparse Quantum State Preparation for Strongly Correlated Systems. In JOURNAL OF PHYSICAL CHEMISTRY LETTERS, 2024, vol. 15, no. 11, pp. 3197-3205. ISSN 1948-7185. Dostupné na: <https://doi.org/10.1021/acs.jpcclett.3c03159>, Registrované v: WOS
12. [1.1] GANESHAMURTHY, Priyanka Arkalgud - GHOSH, Kumar - O';MEARA, Corey - CORTIANA, Giorgio - SCHIEFELBEIN-LACH, Jan - MONTI, Antonello. Next Generation Power System Planning and Operation With Quantum Computation. In IEEE ACCESS, 2024, vol. 12, no., pp. 182673-182692. ISSN 2169-3536. Dostupné na: <https://doi.org/10.1109/ACCESS.2024.3509743>, Registrované v: WOS
13. [1.1] GHOSH, Kumar - YOGARAJ, Kavitha - AGLIARDI, Gabriele - SABINO, Piergiacomo - FERNANDEZ-CAMPOAMOR, Marina - BERNABE-MORENO, Juan - CORTIANA, Giorgio - SHEHAB, Omar - O';MEARA, Corey. Energy Risk Analysis With Dynamic Amplitude Estimation and Piecewise Approximate Quantum Compiling. In IEEE TRANSACTIONS ON QUANTUM ENGINEERING, 2024, vol. 5, no., art. no. 3102717. Dostupné na: <https://doi.org/10.1109/TQE.2024.3425969>, Registrované v: WOS
14. [1.1] GUI, Kaiwen - DALZELL, Alexander M. - ACHILLE, Alessandro - SUCHARA, Martin - CHONG, Frederic T. Spacetime-Efficient Low-Depth Quantum State Preparation with Applications. In QUANTUM, 2024, vol. 8, no., art. no. 1257. ISSN 2521-327X., Registrované v: WOS
15. [1.1] GUJJU, Yaswitha - MATSUO, Atsushi - RAYMOND, Rudy. Quantum machine learning on near-term quantum devices: Current state of supervised and unsupervised techniques for real-world applications. In PHYSICAL REVIEW APPLIED, 2024, vol. 21, no. 6, art. no. 067001. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.21.067001>, Registrované v: WOS
16. [1.1] HERBERT, Steven - WILLIAMS, Ifan - GUICHARD, Roland - NG, Darren. Noise-Aware Quantum Amplitude Estimation. In IEEE TRANSACTIONS ON QUANTUM ENGINEERING, 2024, vol. 5, no., art. no. 3103623. Dostupné na: <https://doi.org/10.1109/TQE.2024.3476929>, Registrované v: WOS
17. [1.1] INGOLDBY, James - SPANNOWSKY, Michael - SYPCHENKO, Timur - WILLIAMS, Simon. Enhancing quantum field theory simulations on NISQ devices with Hamiltonian truncation. In PHYSICAL REVIEW D, 2024, vol. 110, no. 9, art. no. 096016. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.096016>, Registrované v: WOS
18. [1.1] JOBST, Bernhard - SHEN, Kevin - SHISHENINA, Elvira - RIOFRIO, Carlos A. - POLLMANN, Frank. Efficient MPS representations and quantum circuits from the Fourier modes of classical image data. In QUANTUM, 2024, vol. 8, no., art. no. 1544. ISSN 2521-327X., Registrované v: WOS
19. [1.1] KARAMLOU, Amir H. - ROSEN, Ilan T. - MUSCHINSKE, Sarah E. - BARRETT, Cora N. - DI PAOLO, Agustin - DING, Leon - HARRINGTON, Patrick M. - HAYS, Max - DAS, Rabindra - KIM, David K. - NIEDZIELSKI, Bethany M. - SCHULDT, Meghan - SERNIAK, Kyle - SCHWARTZ, Mollie E. - YODER, Jonilyn L. - GUSTAVSSON, Simon - YANAY, Yariv - GROVER, Jeffrey A. - OLIVER, William D. Probing entanglement in a 2D hard-core Bose-Hubbard lattice. In NATURE, 2024, vol. 629, no. 8012, pp. 561-+. ISSN 0028-0836. Dostupné na: <https://doi.org/10.1038/s41586-024-07325-z>, Registrované v: WOS
20. [1.1] KHAN, Mansoor A. - AMAN, Muhammad N. - SIKDAR, Biplab. Beyond Bits: A Review of Quantum Embedding Techniques for Efficient Information Processing. In IEEE ACCESS, 2024, vol. 12, no., pp. 46118-46137. ISSN 2169-3536. Dostupné na: <https://doi.org/10.1109/ACCESS.2024.3382150>, Registrované

v: WOS

21. [1.1] KIM, Jaehee - KIM, Taewan - BAEK, Kyunghyun - HWANG, Yongsoo - HUH, Joonsuk - BANG, Jeongho. Quantum superposing algorithm for quantum encoding. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 11, art. no. 115110. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad80d9>, Registrované v: WOS
22. [1.1] KOSUGI, Taichi - DAIMON, Shunsuke - NISHI, Hirofumi - TSUNEYUKI, Shinji - MATSUSHITA, Yu-ichiro. Qubit encoding for a mixture of localized functions. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 6, art. no. 062407. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.062407>, Registrované v: WOS
23. [1.1] LARIANE, Mohcene Mouad - BELHADEF, Hacene. Variational Circuit Based Hybrid Quantum-Classical Algorithm VC-HQCA. In *QUANTUM COMPUTING: APPLICATIONS AND CHALLENGES, QSAC 2023 : Symposium on Quantum Sciences, Applications and Challenges (QSAC)*, 2024, vol. 2, no., pp. 15-31. ISSN 3004-958X. Dostupné na: https://doi.org/10.1007/978-3-031-59318-5_2, Registrované v: WOS
24. [1.1] LI, Yang Hong - AL-KHALILI, Jim - STEVENSON, Paul. Quantum simulation approach to implementing nuclear density functional theory via imaginary time evolution. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 4, art. no. 044322. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.044322>, Registrované v: WOS
25. [1.1] LI, Yang Hong - AL-KHALILI, Jim - STEVENSON, Paul. Solving coupled non-linear schrödinger equations via quantum imaginary time evolution. In *EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS*, 2024, vol., no. ISSN 1951-6355. Dostupné na: <https://doi.org/10.1140/epjs/s11734-024-01384-z>, Registrované v: WOS
26. [1.1] LIU, Qiushi - HU, Zihao - YUAN, Haidong - YANG, Yuxiang. Fully-Optimized Quantum Metrology: Framework, Tools, and Applications. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 12. Dostupné na: <https://doi.org/10.1002/qute.202400094>, Registrované v: WOS
27. [1.1] LOPATNIKOVA, Anna - TRAN, Minh-ngoc - SISSON, Scott a. AN INTRODUCTION TO QUANTUM COMPUTING FOR STATISTICIANS AND DATA SCIENTISTS. In *FOUNDATIONS OF DATA SCIENCE*, 2024, vol. 6, no. 3, pp. 278-307. Dostupné na: <https://doi.org/10.3934/fods.2024013>, Registrované v: WOS
28. [1.1] MAO, Rui - TIAN, Guojing - SUN, Xiaoming. Toward optimal circuit size for sparse quantum state preparation. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 3, art. no. 032439. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.032439>, Registrované v: WOS
29. [1.1] MAY, Michael Q. - QIN, Hong. Nonlinear solution of classical three-wave interaction via finite-dimensional quantum model. In *JOURNAL OF PLASMA PHYSICS*, 2024, vol. 90, no. 3, art. no. 805900302. ISSN 0022-3778. Dostupné na: <https://doi.org/10.1017/S002237782400059X>, Registrované v: WOS
30. [1.1] MIRANSKY, Andriy - KHAN, Mushahid - MENDES, Udson. Comparing Algorithms for Loading Classical Datasets into Quantum Memory. In *2024 IEEE INTERNATIONAL CONFERENCE ON QUANTUM COMPUTING AND ENGINEERING, QCE, VOL 2 : 2024 International Conference on Quantum Computing and Engineering*, 2024, vol., no., pp. 234-238. Dostupné na: <https://doi.org/10.1109/QCE60285.2024.10284>, Registrované v: WOS
31. [1.1] MITSUDA, Naoki - ICHIMURA, Tatsuhiro - NAKAJI, Kouhei - SUZUKI, Yohichi - TANAKA, Tomoki - RAYMOND, Rudy - TEZUKA, Hiroyuki -

- ONODERA, Tamiya - YAMAMOTO, Naoki. Approximate complex amplitude encoding algorithm and its application to data classification problems. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 5, art. no. 052423. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.052423>, Registrované v: WOS
32. [1.1] MOOSA, Mudassir - WATTS, Thomas W. - CHEN, Yiyu - SARMA, Abhijat - MCMAHON, Peter L. Linear-depth quantum circuits for loading Fourier approximations of arbitrary functions. In *QUANTUM SCIENCE AND TECHNOLOGY*, 2024, vol. 9, no. 1, art. no. 015002. ISSN 2058-9565. Dostupné na: <https://doi.org/10.1088/2058-9565/acfc62>, Registrované v: WOS
33. [1.1] MUKHOPADHYAY, Priyanka - STETINA, Torin F. - WIEBE, Nathan. Quantum Simulation of the First-Quantized Pauli-Fierz Hamiltonian. In *PRX QUANTUM*, 2024, vol. 5, no. 1, art. no. 010345. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.010345>, Registrované v: WOS
34. [1.1] NEPOMECHIE, Rafael I. - RAVANINI, Francesco - RAVEH, David. Spin-s Dicke States and Their Preparation. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 12, art. no. 2400057. Dostupné na: <https://doi.org/10.1002/qute.202400057>, Registrované v: WOS
35. [1.1] NIBBI, Martina - MENDL, Christian B. Block encoding of matrix product operators. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 4, art. no. 042427. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.042427>, Registrované v: WOS
36. [1.1] NIE, Junhong - LI, Meng - SUN, Xiaoming. Multipartite high-dimensional quantum state engineering via discrete-time quantum walk. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 3, art. no. 032229. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.032229>, Registrované v: WOS
37. [1.1] OHNO, Hiroshi. Bayesian network structure learning using quantum generative models. In *QUANTUM MACHINE INTELLIGENCE*, 2024, vol. 6, no. 2, art. no. 74. ISSN 2524-4906. Dostupné na: <https://doi.org/10.1007/s42484-024-00217-5>, Registrované v: WOS
38. [1.1] OROZCO-RUIZ, Modesto - LE, Nguyen H. - MINTERT, Florian. Quantum Control without Quantum States. In *PRX QUANTUM*, 2024, vol. 5, no. 4, art. no. 040346. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.040346>, Registrované v: WOS
39. [1.1] PARADIS, Anouk - DEKONINCK, Jasper - BICHSEL, Benjamin - VECHEV, Martin. Synthetiq: Fast and Versatile Quantum Circuit Synthesis. In *PROCEEDINGS OF THE ACM ON PROGRAMMING LANGUAGES-PACMPL*, 2024, vol. 8, no. OOPSLA, art. no. 96. Dostupné na: <https://doi.org/10.1145/3649813>, Registrované v: WOS
40. [1.1] RAMACCIOTTI, Debora - LEFTEROVICI, Andreea I. - ROTUNDO, Antonio F. Simple quantum algorithm to efficiently prepare sparse states. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 3, art. no. 032609. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.032609>, Registrované v: WOS
41. [1.1] ROY, Ananda - ERRAMILLI, Sameer - KONIK, Robert M. Efficient quantum circuits based on the quantum natural gradient. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 4, art. no. 043083. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.043083>, Registrované v: WOS
42. [1.1] SCHALKERS, Merel A. - MOLLER, Matthias. Efficient and fail-safe quantum algorithm for the transport equation. In *JOURNAL OF COMPUTATIONAL PHYSICS*, 2024, vol. 502, no., art. no. 112816. ISSN 0021-

9991. Dostupné na: <https://doi.org/10.1016/j.jcp.2024.112816>, Registrované v: WOS

43. [1.1] SHARMA, Monit - LAU, Hoong Chuin - RAYMOND, Rudy. Quantum Enhanced Simulation Based Optimization for Newsvendor Problems. In 2024 IEEE INTERNATIONAL CONFERENCE ON QUANTUM COMPUTING AND ENGINEERING, QCE, VOL 1 : 2024 International Conference on Quantum Computing and Engineering, 2024, vol., no., pp. 457-468. Dostupné na: <https://doi.org/10.1109/QCE60285.2024.00060>, Registrované v: WOS

44. [1.1] SHI, Yuan - BECK, Kristin M. - KRUSE, Veronika Anneliese - LIBBY, Stephen B. Preparing angular momentum eigenstates using engineered quantum walks. In PHYSICAL REVIEW A, 2024, vol. 110, no. 6, art. no. 062214. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.062214>, Registrované v: WOS

45. [1.1] SHIRAKAWA, Tomonori - UEDA, Hiroshi - YUNOKI, Seiji. Automatic quantum circuit encoding of a given arbitrary quantum state. In PHYSICAL REVIEW RESEARCH, 2024, vol. 6, no. 4, art. no. 043008. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.043008>, Registrované v: WOS

46. [1.1] SHUKLA, Alok - VEDULA, Prakash. An efficient quantum algorithm for preparation of uniform quantum superposition states. In QUANTUM INFORMATION PROCESSING, 2024, vol. 23, no. 2, art. no. 38. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04258-4>, Registrované v: WOS

47. [1.1] SOOD, Vaishali - CHAUHAN, Rishi Pal. Archives of Quantum Computing: Research Progress and Challenges. In ARCHIVES OF COMPUTATIONAL METHODS IN ENGINEERING, 2024, vol. 31, no. 1, pp. 73-91. ISSN 1134-3060. Dostupné na: <https://doi.org/10.1007/s11831-023-09973-2>, Registrované v: WOS

48. [1.1] TERMANOVA, A. - MELNIKOV, Ar - MAMENCHIKOV, E. - BELOKONEV, N. - DOLGOV, S. - BEREZUTSKII, A. - ELLERBROCK, R. - MANSELL, C. - PERELSHTEIN, M. R. Tensor quantum programming. In NEW JOURNAL OF PHYSICS, 2024, vol. 26, no. 12, art. no. 123019. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad985b>, Registrované v: WOS

49. [1.1] WALTERS, Peter L. - WANG, Fei. Path integral quantum algorithm for simulating non-Markovian quantum dynamics in open quantum systems. In PHYSICAL REVIEW RESEARCH, 2024, vol. 6, no. 1, art. no. 013135. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.013135>, Registrované v: WOS

50. [1.1] YUAN, Pei - ALLCOCK, Jonathan - ZHANG, Shengyu. Does Qubit Connectivity Impact Quantum Circuit Complexity? In IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS, 2024, vol. 43, no. 2, pp. 520-533. ISSN 0278-0070. Dostupné na: <https://doi.org/10.1109/TCAD.2023.3311734>, Registrované v: WOS

51. [1.1] ZHANG, Xiao-Ming - YUAN, Xiao. Circuit complexity of quantum access models for encoding classical data. In NPJ QUANTUM INFORMATION, 2024, vol. 10, no. 1, art. no. 42. Dostupné na: <https://doi.org/10.1038/s41534-024-00835-8>, Registrované v: WOS

52. [1.1] ZYLBERMAN, Julien - DEBBASCH, Fabrice. Efficient quantum state preparation with Walsh series. In PHYSICAL REVIEW A, 2024, vol. 109, no. 4, art. no. 042401. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.042401>, Registrované v: WOS

53. [1.2] ALLCOCK, Jonathan - BAO, Jinge - DORIGUELLO, Joao F. - LUONGO, Alessandro - SANTHA, Miklos. Constant-depth circuits for Boolean functions and quantum memory devices using multi-qubit gates. In Quantum, 2024-01-01, 8, pp. Dostupné na: <https://doi.org/10.22331/q-2024-11-20-1530>,

Registrované v: SCOPUS

54. [1.2] ASHHAB, Sahel - YOSHIHARA, Fumiki - TSUJI, Miwako - SATO, Mitsuhiisa - SEMBA, Kouichi. Quantum circuit synthesis via a random combinatorial search. In *Physical Review A*, 2024-05-01, 109, 5, pp. ISSN 24699926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.052605>,

Registrované v: SCOPUS

55. [1.2] DUTTA, Sreejit - HUBER, Sigurd - KRIEGER, Gerhard. On the potentials of Tensor-based Quantum Machine Learning for SAR land-cover classification. In *Proceedings of the European Conference on Synthetic Aperture Radar Eusar*, 2024-01-01, pp. 492-497. ISBN [9783800762873]. ISSN 21974403.,

Registrované v: SCOPUS

56. [1.2] GANESHAMURTHY, Priyanka Arkalud - GHOSH, Kumar - O';MEARA, Corey - CORTIANA, Giorgio - SCHIEFELBEIN-LACH, Jan - MONTI, Antonello. Next Generation Power System Planning and Operation with Quantum Computation. In *IEEE Access*, 2024-01-01, pp. Dostupné na:

<https://doi.org/10.1109/ACCESS.2024.3509743>, Registrované v: SCOPUS

57. [1.2] HERBERT, Steven - WILLIAMS, Ifan - GUICHARD, Roland - NG, Darren. Noise-Aware Quantum Amplitude Estimation. In *IEEE Transactions on Quantum Engineering*, 2024-01-01, 5, pp. Dostupné na:

<https://doi.org/10.1109/TQE.2024.3476929>, Registrované v: SCOPUS

58. [1.2] HUBER, Sigurd - WIED, Yoshinta - EPPING, Michael - GLATTING, Kay - KRIEGER, Gerhard. Quantum Computation for SAR Antenna Optimization Problems. In *Proceedings of the European Conference on Synthetic Aperture Radar Eusar*, 2024-01-01, pp. 1375-1380. ISBN [9783800762873]. ISSN 21974403., Registrované v: SCOPUS

59. [1.2] LIU, Xia - LIU, Geng - ZHANG, Hao Kai - HUANG, Jiaxin - WANG, Xin. Mitigating Barren Plateaus of Variational Quantum Eigensolvers. In *IEEE Transactions on Quantum Engineering*, 2024-01-01, 5, pp. Dostupné na:

<https://doi.org/10.1109/TQE.2024.3383050>, Registrované v: SCOPUS

60. [1.2] PANDE, Mandaar B. A Comprehensive Review of Data Encoding Techniques for Quantum Machine Learning Problems. In *2nd International Conference on Emerging Trends in Information Technology and Engineering Ic Etite 2024*, 2024-01-01, pp. ISBN [9798350328202]. Dostupné na:

<https://doi.org/10.1109/ic-ETITE58242.2024.10493306>, Registrované v: SCOPUS

61. [1.2] SCHALKERS, Merel A. - MÖLLER, Matthias. Efficient and fail-safe quantum algorithm for the transport equation. In *Journal of Computational Physics*, 2024-04-01, 502, pp. ISSN 00219991. Dostupné na:

<https://doi.org/10.1016/j.jcp.2024.112816>, Registrované v: SCOPUS

ADCA682 PLESCH, Martin - BUŽEK, Vladimír. Entangled graphs: Bipartite entanglement in multiqubit systems. In *Physical Review A*, 2003, vol. 67, no. 1, art. no. 012322. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.67.012322>

Citácie:

1. [1.1] RADHAKRISHNAN, Chandrashekar - ROY, Sovik - CHINNARASU, Ravikumar - ALI, Md. Manirul. Entanglement preservation in tripartite quantum systems under dephasing dynamics. In *EPL*, 2024, vol. 146, no. 3, art. no. 38001. ISSN 0295-5075. Dostupné na: <https://doi.org/10.1209/0295-5075/ad3eac>,

Registrované v: WOS

2. [1.2] VARGOVÁ, Hana - STREČKA, Jozef. Evidence of a significant full tripartite entanglement in a mixed spin-(1/2,1) Heisenberg tetramer. In *Results in Physics*, 2024-06-01, 61, pp. Dostupné na:

<https://doi.org/10.1016/j.rinp.2024.107728>, Registrované v: SCOPUS

ADCA683 PLEVACHUK, Yu.** - SKLYARCHUK, V. - ŠVEC, Peter - ŠVEC, Peter Jr. -

JANIČKOVIČ, Dušan - ILLEKOVÁ, Emília - YAKYMOVYCH, A.
Thermophysical structure-sensitive properties of Tin-Zinc alloys. In Journal of Materials Science. Materials in Electronics, 2017, vol. 28, no. 1, p. 750-759. (2016: 2.019 - IF, Q2 - JCR, 0.469 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0957-4522. Dostupné na: <https://doi.org/10.1007/s10854-016-5586-y>

Citácie:

1. [1.1] XU, Xinpei - TANG, Ying - QIU, Zhentao - ZHANG, Lijun - XIA, Xingchuan - DING, Jian. A novel strategy for modeling composition-/temperature-dependent viscosity in multicomponent melts: Mg-Al-Zn-Sn-Bi as a test case. In JOURNAL OF NON-CRYSTALLINE SOLIDS, 2024, vol. 646, no., art. no. 123209. ISSN 0022-3093. Dostupné na:

<https://doi.org/10.1016/j.jnoncrysol.2024.123209>, Registrované v: WOS

ADCA684

PLEVACHUK, Yuriy - POVERZHUK, V. - ŠVEC, Peter - ŠVEC, Peter Jr. - GEJDOŠ JANOTOVÁ, Irena - JANIČKOVIČ, Dušan - RUD, A. Electrical Resistivity of Lead-Free Solders Reinforced by Carbon Nanospheres. In International Journal of Thermophysics, 2024, vol. 45, no. 3, art. no. 31. (2023: 2.5 - IF, Q2 - JCR, 0.438 - SJR, Q2 - SJR). ISSN 0195-928X. Dostupné na: <https://doi.org/10.1007/s10765-023-03326-8>

Citácie:

1. [1.1] HONG, Sung-joon - SHARMA, Ashutosh - JUNG, Jae Pil. Taguchi Optimization of Wetting, Thermal and Mechanical Properties of Sn-1.0wt.%Ag-0.5wt.%Cu Alloys Modified with Bi and Sb. In MATERIALS, 2024, vol. 17, no. 11, art. no. 2661. Dostupné na: <https://doi.org/10.3390/ma17112661>, Registrované v: WOS

2. [1.1] YAHAYA, Muhamad Zamri - AZMI, Ezzatul Farhain - SALLEH, Nor Azmira - SAAD, Abdullah Aziz - WANG, Dawei - KHEAWHOM, Soorathep - ALSHOAIBI, Adil - MOHAMAD, Ahmad Azmin. Nanoparticle-reinforced solder alloys: A comprehensive review of recent formulation properties, and mechanical performance. In JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, 2024, vol. 32, no., pp. 3682-3707. ISSN 2238-7854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2024.08.166>, Registrované v: WOS

ADCA685

PODROJKOVÁ, Natália - PATERA, Jan - POPESCU, Radian - ŠKOVIERA, Ján - ORIŇAKOVÁ, Renáta - ORIŇAK, Andrej**. Pyrolysis Degradation of Cellulose over Highly Effective ZnO and ZnO-CuO Nanocatalysts. In ChemistrySelect, 2021, vol. 6, no. 17, p. 4256-4264. (2020: 2.109 - IF, Q3 - JCR, 0.437 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2365-6549. Dostupné na: <https://doi.org/10.1002/slct.202100367>

Citácie:

1. [1.1] QURASHI, Sdeedah Zahra - OKLA, Mohammad K. - SALEH, Ibrahim A. - ZOMOT, Naser - ZAMAN, Umber - REHMAN, Khalil ur - KHAN, Dilaraz - KHAN, Shahid Ullah - KHAN, Safir Ullah - ABDEL-MAKSOU, Mostafa A. Alkaline protease based hydrothermal synthesis of novel Pd/CuO/ZnO nanocomposite: A new entry into photocatalytic and biomedical applications. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, 2024, vol. 266, no., art. no. 131155. ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2024.131155>, Registrované v: WOS

2. [1.1] YADAV, Kapil - DATTA, Dipaloy - JANA, Barun. Enhanced photocatalytic degradation of Reactive Green 19 dye using earthworms like T-ZnO-CuO nanocomposite material as a S-scheme heterojunction photocatalyst. In INORGANIC CHEMISTRY COMMUNICATIONS, 2024, vol. 170, no., art. no. 113165. ISSN 1387-7003. Dostupné na: <https://doi.org/10.1016/j.inoche.2024.113165>,

Registrované v: WOS

3. [1.2] ENDESHAW, Solomon Bekele - TUFA, Lemma Teshome - GODDATI, Mahendra - LEE, Jaebeom - SILALAH, Vanna Christmas - LEE, Donghan - MURTHY, H. C. Ananda - SABIR, Fedlu Kadir. Croton macrostachyus Leaf Extract-Mediated Green Synthesis of ZnO Nanoparticles and ZnO/CuO Nanocomposites for the Enhanced Photodegradation of Methylene Blue Dye with the COMSOL Simulation Model. In ACS Omega, 2024-01-09, 9, 1, pp. 559-572. Dostupné na: <https://doi.org/10.1021/acsomega.3c06155>, Registrované v: SCOPUS

4. [1.2] PATIL, Reshma P. - KALANTRE, Vilasrao A. - PAWAR, Dattatray K. - ALASUNDKAR, Krishna N. Ultrasound-assisted synthesis of 3,4-dihydropyrimidine-2(1H)-ones catalyzed by nanocomposites: An efficient and green approach. In Indian Journal of Chemistry Ijc, 2024-11-01, 63, 11, pp. 1141-1154. Dostupné na: <https://doi.org/10.56042/ijc.v63i11.12945>, Registrované v: SCOPUS

ADCA686 PRIBUSOVÁ SLUŠNÁ, Lenka** - VOJTEKOVÁ, Tatiana - HRDÁ, Jana - PÁLKOVÁ, Helena - ŠIFFALOVÍČ, Peter - SOJKOVÁ, Michaela - VÉGSÖ, Karol - HUTÁR, Peter - DOBROČKA, Edmund - VARGA, Marian - HULMAN, Martin**. Optical characterization of few-layer PtSe₂ nanosheet films. In ACS Omega, 2021, vol. 6, no. 51, p. 35398-35403. (2020: 3.512 - IF, Q2 - JCR, 0.779 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2470-1343. Dostupné na: <https://doi.org/10.1021/acsomega.1c04768>

Citácie:

1. [1.1] HSU, C.H. - LIAO, H.Y. - WANG, K.Y. - KUO, T.W. - LIU, C.C. - SHIH, J.R. - LIN, C.J. - CHEN, C.T. - PENG, Y.R. - YANG, T.Y. - KAO, M.Y. - HUANG, H.F. - SHEN, H.Y. - KING, Y.C. - CHUEH, Y.L. Design of Wireless Multiple Gases Complementary Architecture Sensors Based on SnSe₂ and PtSe₂ Layered Films and Oscillating Circuits. In ADVANCED MATERIALS TECHNOLOGIES. ISSN 2365-709X, APR 2024, vol. 9, no. 8. Dostupné na:

<https://doi.org/10.1002/admt.202301479>, Registrované v: WOS

2. [1.1] MINEV, N. - BUCHKOV, K. - TODOROVA, N. - TODOROV, R. - VIDEVA, V. - STEFANOVA, M. - RAFAILOV, P. - KARASHANOVA, D. - DIKOV, H. - STRIJKOVA, V. - TRAPALIS, C. - LIN, S.H. - DIMITROV, D. - MARINOVA, V. Synthesis of 2D PtSe₂ Nanolayers on Glass Substrates and Their Integration in Near-Infrared Light Shutters. In ACS OMEGA. ISSN 2470-1343, MAR 22 2024, vol. 9, no. 13, p. 14874-14886. Dostupné na:

<https://doi.org/10.1021/acsomega.3c08235>, Registrované v: WOS

ADCA687 PRIBUSOVÁ SLUŠNÁ, Lenka** - VÉGSÖ, Karol - DOBROČKA, Edmund - VOJTEKOVÁ, Tatiana - NÁDAŽDY, Peter - HALAHOVETS, Yuriy - SOJKOVÁ, Michaela - HRDÁ, Jana - PRECNER, Marián - ŠIFFALOVÍČ, Peter - CHEN, Z. - HUANG, Yan - RAŽNJEVIĆ, S. - ZHANG, Z. - HULMAN, Martin**. Ordered growth of hexagonal and monoclinic phases of MoTe₂ on a sapphire substrate. In CrystEngComm, 2023, vol. 25, no. 40, p. 5706-5713. (2022: 3.1 - IF, Q1 - JCR, 0.59 - SJR, Q2 - SJR). ISSN 1466-8033. Dostupné na:

<https://doi.org/10.1039/d3ce00378g>

Citácie:

1. [1.1] CHAUDHARY, N. - BHATT, K. - KHAN, T. - SINGH, R. Gamma-induced stress, strain and p-type doping in MBE-grown thin film MoTe₂. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, AUG 28 2024, vol. 26, no. 34, p. 22529-22538. Dostupné na: <https://doi.org/10.1039/d4cp02600d>,

Registrované v: WOS

2. [1.1] LIU, Haiyang - WU, Yaping - WU, Zhiming - LIU, Sheng - ZHANG,

Vanessa Li - YU, Ting. Coexisting Phases in Transition Metal Dichalcogenides: Overview, Synthesis, Applications, and Prospects. In ACS NANO, 2024, vol. 18, no. 4, pp. 2708-2729. ISSN 1936-0851. Dostupné na:

<https://doi.org/10.1021/acsnano.3c10665>, Registrované v: WOS

3. [1.1] SOUZA, Matheus Almeida de - SCIAMMARELLA, Paulo Victor - RIZZI, Leandro Gutierrez - MARONESI, Ray Nascimento - GUIMARA, Luciano de Moura - DA SILVA, Maria Ivonete Nogueira - GONZALEZ-PEREZ, Juan Carlos - DE ARAUJO, Eduardo Nery Duarte. Effect of the roughness on the photoinduced growth of crystalline tellurium on MoTe₂ matrix. In JOURNAL OF ALLOYS AND COMPOUNDS, 2024, vol. 983, no., art. no. 173830. ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.173830>, Registrované v: WOS

ADCA688 PRIPUTEN, P. - KUSY, M. - DRIENOVSKY, M. - JANIČKOVIČ, Dušan - ČIČKA, R. - CERNICKOVA, I. - JANOVEC, J. Experimental reinvestigation of Al-Co phase diagram in vicinity of Al₁₃Co₄ family of phases. In Journal of Alloys and Compounds, 2015, vol. 647, p. 486-497. (2014: 2.999 - IF, Q1 - JCR, 1.117 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2015.05.248>

Citácie:

1. [1.1] BOULANGEOT, Nathan - BRIX, Florian - SUR, Frederic - GAUDRY, Emilie. Hydrogen, Oxygen, and Lead Adsorbates on Al₁₃Co₄(100): Accurate Potential Energy Surfaces at Low Computational Cost by Machine Learning and DFT-Based Data. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION, 2024, vol. 20, no. 16, pp. 7287-7299. ISSN 1549-9618. Dostupné na: <https://doi.org/10.1021/acs.jctc.4c00367>, Registrované v: WOS

2. [1.1] FENOCCHIO, L. - GAMBARO, S. - CACCIAMANI, G. Critical Assessment of Phase Equilibria in the Al-Co-Ta and Al-Ni-Ta Systems. In JOURNAL OF PHASE EQUILIBRIA AND DIFFUSION, 2024, vol. 45, no. 6, pp. 986-1010. ISSN 1547-7037. Dostupné na: <https://doi.org/10.1007/s11669-024-01161-4>, Registrované v: WOS

3. [1.1] SHAO, Wei - HOU, Huiying - LIU, Sha - LLORCA, Javier. First-principles prediction of the Co-Al phase diagram including configurational, vibrational and magnetic contributions. In JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, 2024, vol. 31, no., pp. 1518-1534. ISSN 2238-7854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2024.06.143>, Registrované v: WOS

ADCA689 PRITYCHENKO, B. - BĚTÁK, Emil - KELLETT, M.A. - SINGH, B. - TOTANS, J. The nuclear science references (NSR) database and web retrieval system. In Nuclear Instruments and Methods in Physics Research A, 2011, vol. 640, no. 1, p. 213-218. (2010: 1.142 - IF, Q2 - JCR, 0.894 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 0168-9002. Dostupné na: <https://doi.org/10.1016/j.nima.2011.03.018>

Citácie:

1. [1.1] BODIE, C. S. - BARNETT, A. M. Modelling Gd-diamond and Gd-SiC neutron detectors. In APPLIED RADIATION AND ISOTOPES, 2024, vol. 212, no., art. no. 111430. ISSN 0969-8043. Dostupné na:

<https://doi.org/10.1016/j.apradiso.2024.111430>, Registrované v: WOS

2. [1.1] CHEN, Jun. Nuclear Structure and Decay Data for A=63 Isobars*. In NUCLEAR DATA SHEETS, 2024, vol. 196, no., pp. 17-341. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.06.003>, Registrované v: WOS

3. [1.1] NICA, N. Nuclear Data Sheets for A=162*. In NUCLEAR DATA SHEETS, 2024, vol. 195, no., pp. 1-367. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.04.001>, Registrované v: WOS

4. [1.1] SAAD, Maher T. - AL-AZRAQ, Bassam T. - MOHSIN, Radhwan Ch. - JAWAD, Rasheed - NAJEM, Rusul A. Theoretical models validation of Cr-51 production reactions for medical applications. In *ANNALS OF NUCLEAR ENERGY*, 2024, vol. 209, no., art. no. 110853. ISSN 0306-4549. Dostupné na: <https://doi.org/10.1016/j.anucene.2024.110853>, Registrované v: WOS
5. [1.1] SINGH, Balraj - CHEN, Jun - FARHAN, Ameenah R. Nuclear Structure and Decay Data for A=76 Isobars. In *NUCLEAR DATA SHEETS*, 2024, vol. 194, no., pp. 3-459. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.02.002>, Registrované v: WOS
6. [1.1] SINGH, Balraj - CHEN, Jun. Nuclear Structure and Decay Data for A=165 Isobars. In *NUCLEAR DATA SHEETS*, 2024, vol. 194, no., pp. 460-877. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.02.003>, Registrované v: WOS
7. [1.1] SOTI, Zsolt - DREHER, Raymond - MAGILL, Joseph. Karlsruhe Nuclide Chart a tradition in progress for nuclear data. In *EPJ NUCLEAR SCIENCES & TECHNOLOGIES*, 2024, vol. 10, no., art. no. 7. ISSN 2491-9292. Dostupné na: <https://doi.org/10.1051/epjn/2024009>, Registrované v: WOS
8. [1.2] KELLEY, J. H. - SHEU, C. G. - PURCELL, J. E. Energy Levels of Light Nuclei A=13. In *Nuclear Data Sheets*, 2024-12-01, 198, pp. 1-448. ISSN 00903752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.11.001>, Registrované v: SCOPUS

- ADCA690 PRITYCHENKO, B. - BĚTÁK, Emil - SINGH, B. - TOTANS, J. Nuclear science references database. In *Nuclear Data Sheets*, 2014, vol. 120, p. 291-293. (2013: 3.353 - IF, Q1 - JCR, 1.761 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2014.07.070>
- Citácie:
1. [1.1] BASUNIA, M. S. Nuclear Data Sheets for A=191. In *NUCLEAR DATA SHEETS*, 2024, vol. 195, no., pp. 368-717. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.04.002>, Registrované v: WOS
 2. [1.1] BASUNIA, M. Shamsuzzoha - CHAKRABORTY, Anagha. Nuclear Data Sheets for A=30. In *NUCLEAR DATA SHEETS*, 2024, vol. 197, no., pp. 1-258. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.08.001>, Registrované v: WOS
 3. [1.1] KONDEV, F. G. Recommended Nuclear Structure and Decay Data for A=202 Isobars. In *NUCLEAR DATA SHEETS*, 2024, vol. 196, no., pp. 342-575. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.06.004>, Registrované v: WOS
 4. [1.1] MORSE, C. Nuclear Structure and Decay Data for A=230. In *NUCLEAR DATA SHEETS*, 2024, vol. 197, no., pp. 259-371. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.08.002>, Registrované v: WOS
 5. [1.1] NESARAJA, C. D. Nuclear Data Sheets for A=249. In *NUCLEAR DATA SHEETS*, 2024, vol. 195, no., pp. 718-844. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.04.003>, Registrované v: WOS
 6. [1.1] NICA, N. Nuclear Data Sheets for A=162*. In *NUCLEAR DATA SHEETS*, 2024, vol. 195, no., pp. 1-367. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.04.001>, Registrované v: WOS
 7. [1.1] ZHOU, Peng - DING, Qingjun - HUANG, Shaolong - YANG, Jun. Determination and calculation of gamma and neutron shielding characteristics of UHPC with high titanium heavy slag sand. In *CONSTRUCTION AND BUILDING MATERIALS*, 2024, vol. 448, no., art. no. 138238. ISSN 0950-0618. Dostupné na: <https://doi.org/10.1016/j.conbuildmat.2024.138238>, Registrované v: WOS
 8. [1.2] NESARAJA, C. D. Nuclear Data Sheets for A=246. In *Nuclear Data*

Sheets, 2024-12-01, 198, pp. 449-534. ISSN 00903752. Dostupné na:

<https://doi.org/10.1016/j.nds.2024.11.002>, Registrované v: SCOPUS

- ADCA691 PROCHÁZKOVÁ, Eliška** - FILO, Juraj - MUŽÍKOVÁ ČECHOVÁ, Lucie - DRAČÍNSKÝ, Martin - CÍSAŘOVÁ, Ivana - JANEBA, Zlatko - KAWAMURA, Izuru - NAITO, Akira - KUBĚNA, Ivo - NÁDAŽDY, Peter - ŠIFFALOVÍČ, Peter - CIGÁŇ, Marek. Photoswitching of 5-phenylazopyrimidines in crystalline powders and thin films. In Dyes and Pigments, 2022, vol. 199, art. no. 110066. (2021: 5.122 - IF, Q1 - JCR, 0.699 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0143-7208. Dostupné na: <https://doi.org/10.1016/j.dyepig.2021.110066>

Citácie:

1. [1.1] HE, Yixin - DANG, Tongtong - LEACH, Andrew G. - ZHANG, Zhao-Yang - LI, Tao. Photoswitchable Azobispyrazole Crystals Achieving Near-Quantitative Crystalline-State Bidirectional E $\rightleftharpoons$ Z Conversions. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, 2024, vol. 146, no. 42, pp. 29237-29244. ISSN 0002-7863. Dostupné na: <https://doi.org/10.1021/jacs.4c12532>, Registrované v: WOS

- ADCA692 PUDLÁK, Michal - PINČÁK, Richard - BARTOŠ, Erik. Effect of vibrational modes on electron transfer directionality: Photosynthetic reaction centers. In Physical Review E, 2022, vol. 105, no. 6, art. no. 064408. (2021: 2.707 - IF, Q1 - JCR, 0.847 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.105.064408>

Citácie:

1. [1.1] KIM, Yunmi - GRASING, Daniel - ALIA, A. - WIEBELER, Christian - MATYSIK, Jorg. Solid-State NMR Analysis of the Dynamics of Cofactors: Comparison of Heliobacterial and Purple Bacterial Reaction Centers. In JOURNAL OF PHYSICAL CHEMISTRY B, 2024, vol. 128, no. 47, pp. 11525-11545. ISSN 1520-6106. Dostupné na: <https://doi.org/10.1021/acs.jpcb.4c04082>, Registrované v: WOS

- ADCA693 RAI, Ashutosh - PIVOLUSKA, Matej - SASMAL, Souradeep - BANIK, Manik - GHOSH, Sibasish - PLESCH, Martin. Self-testing quantum states via nonmaximal violation in Hardy's test of nonlocality. In Physical Review A, 2022, vol. 105, no. 5, art. no. 052227. (2021: 2.971 - IF, Q2 - JCR, 1.183 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.105.052227>

Citácie:

1. [1.1] ADHIKARY, Ranendu - MISHRA, Abhishek - RAHAMAN, Ramij. Self-testing of genuine multipartite entangled states without network assistance. In PHYSICAL REVIEW A, 2024, vol. 110, no. 1, art. no. L010401. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.L010401>, Registrované v: WOS

2. [1.1] ADHIKARY, Ranendu. Self-testing of genuine multipartite non-local and non-maximally entangled states. In PHYSICS LETTERS A, 2024, vol. 520, no., art. no. 129731. ISSN 0375-9601. Dostupné na:

<https://doi.org/10.1016/j.physleta.2024.129731>, Registrované v: WOS

3. [1.1] BARIZIEN, Victor - SEKATSKI, Pavel - BANCAL, JeanDaniel. Custom Bell inequalities from formal sums of squares. In QUANTUM, 2024, vol. 8, no., pp. 1-24. ISSN 2521-327X., Registrované v: WOS

4. [1.1] CHEN, KaiSiang - MAL, Shiladitya - TABIA, Gelo Noel M. - LIANG, Yeong-Cherng. Hardy-type paradoxes for an arbitrary symmetric bipartite Bell scenario. In PHYSICAL REVIEW A, 2024, vol. 109, no. 4, art. no. 042206. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.042206>, Registrované v: WOS

5. [1.1] GHOSH, Subhendu B. - CHOWDHURY, Snehasish Roy - KAR, Guruprasad - ROY, Arup - GUHA, Tamal - BANIK, Manik. Quantum Nonlocality: Multicopy Resource Interconvertibility and Their Asymptotic Inequivalence. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 25, art. no. 250205. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.250205>, Registrované v: WOS

6. [1.1] ZHAO, Si-Ran - ZHAO, Shuai - DONG, Hai-Hao - LIU, Wen-Zhao - CHEN, Jing-Ling - CHEN, Kai - ZHANG, Qiang - PAN, Jian-Wei. Loophole-Free Test of Local Realism via Hardy's Violation. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 6, art. no. 060201. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.060201>, Registrované v: WOS

ADCA694

RAI, Ashutosh** - PIVOLUSKA, Matej** - PLESCH, Martin** - SASMAL, Souradeep** - BANIK, Manik** - GHOSH, Sibasish**. Device-independent bounds from Cabello's nonlocality argument. In *Physical Review A*, 2021, vol. 103, no. 6, art. no. 062219. (2020: 3.140 - IF, Q2 - JCR, 1.391 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.103.062219>

Citácie:

1. [1.1] ADHIKARY, Ranendu - MISHRA, Abhishek - RAHAMAN, Ramij. Self-testing of genuine multipartite entangled states without network assistance. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 1, art. no. L010401. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.L010401>, Registrované v: WOS

2. [1.1] ADHIKARY, Ranendu. Self-testing of genuine multipartite non-local and non-maximally entangled states. In *PHYSICS LETTERS A*, 2024, vol. 520, no., art. no. 129731. ISSN 0375-9601. Dostupné na: <https://doi.org/10.1016/j.physleta.2024.129731>, Registrované v: WOS

3. [1.1] CHEN, KaiSiang - MAL, Shiladitya - TABIA, Gelo Noel M. - LIANG, Yeong-Cherng. Hardy-type paradoxes for an arbitrary symmetric bipartite Bell scenario. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 4, art. no. 042206. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.042206>, Registrované v: WOS

4. [1.1] PAUL, Rajdeep - SASMAL, Souradeep - PAN, A. K. Self-testing of multiple unsharpness parameters through sequential violations of a noncontextual inequality. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 1, art. no. 012444. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.012444>, Registrované v: WOS

5. [1.1] YANG, Ming - ZHANG, Dongkai - CHEN, Lixiang. Cabello's nonlocality argument for multisetting high-dimensional systems and its experimental test. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 1, art. no. 012441. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.012441>, Registrované v: WOS

ADCA695

RAITH, M. - ERTLER, C. - STAÑO, Peter - WIMMER, M. - FABIAN, J. Electric control of tunneling energy in graphene double dots. In *Physical Review B*, 2014, vol. 89, no. 8, art. no. 085414. (2013: 3.664 - IF, Q1 - JCR, 2.804 - SJR, Q3 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.89.085414>

Citácie:

1. [1.1] FILIKHIN, Igor - KAROUI, Abdennaceur - ZATEZALO, Tanja - KRUCHININ, Sergei P. - VLAHOVIC, Branislav. Effect of double quantum dot asymmetry on electron localization. In *MODERN PHYSICS LETTERS B*, 2024, vol. 38, no. 18. ISSN 0217-9849. Dostupné na:

- <https://doi.org/10.1142/S0217984923420058>, *Registrované v: WOS*
- ADCA696 RAMGOOLAM, Sanjaye** - SEDLÁK, Michal**. Quantum Information Processing and Composite Quantum Fields. In Journal of High Energy Physics, 2019, vol., no. 1, art. no. 170. (2018: 5.833 - IF, Q1 - JCR, 1.016 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1029-8479. Dostupné na: [https://doi.org/10.1007/JHEP01\(2019\)170](https://doi.org/10.1007/JHEP01(2019)170)
- Citácie:
1. [1.1] MARTINI, Riccardo - TORIUMI, Reiko. Trisections in colored tensor models. In ANNALES DE L INSTITUT HENRI POINCARÉ D, 2024, vol. 11, no. 3, pp. 453-502. ISSN 2308-5827. Dostupné na: <https://doi.org/10.4171/AIHPD/167>, *Registrované v: WOS*
- ADCA697 RAPČAN, Peter - CALSAMIGLIA, J. - MUNOZ-TAPIA, R. - BAGAN, E. - BUŽEK, Vladimír. Scavenging quantum information: Multiple observations of quantum systemS. In Physical Review A, 2011, vol. 84, no. 3, art. no. 032326. (2010: 2.861 - IF, Q1 - JCR, 2.400 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.84.032326>
- Citácie:
1. [1.1] NAMKUNG, Min - KWON, Younghun. Analysis of quantum key distribution based on unified model of sequential state discrimination strategy. In SCIENTIFIC REPORTS, 2024, vol. 14, no. 1, art. no. 10254. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-60020-x>, *Registrované v: WOS*
- ADCA698 RAPISARDA, E.** - ANDREYEV, A.N. - ANTALIC, S. - BARZAKH, A. - COCOLIOS, T.E. - DARBY, I.G. - DE GROOTE, R. - DE WITTE, H. - DIRIKEN, J. - ELSEVIERS, J. - FEDOROV, D. - FEDOSSEEV, V.N. - FERRER, R. - HUYSE, M. - KALANINOVA, Z. - KOSTER, U. - LANE, J. - LIBERATI, V. - LYNCH, K.M. - MARSH, B.A. - MOLKANOV, P.L. - PAUWELS, D. - PROCTER, T.J. - RADULOV, D. - SANDHU, K. - SELIVERSTOV, M.D. - VAN BEVEREN, C. - VAN DEN BERGH, P. - VAN DUPPEN, P. - VENHART, Martin - VESELSKÝ, Martin - WRZOSEK-LIPSKA, K. Shape coexistence studied in Hg-182,Hg-184 via the beta decay of Tl-182,Tl-184. In Journal of Physics G: Nuclear and particle physics, 2017, vol. 44, no. 7, art. no. 074001. (2016: 2.899 - IF, Q2 - JCR, 1.365 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0954-3899. Dostupné na: <https://doi.org/10.1088/1361-6471/aa6bb6>
- Citácie:
1. [1.1] ESMAYLZADEH, A. - LEY, M. - BLAZHEV, A. - FRANSEN, C. - JOLIE, J. - KARAYONCHEV, V. - KNAFLA, L. - LAKENBRINK, C.D. - PFEIL, A. - VON SPEE, F. Investigation of low-lying excited states in SUP214/SUPPo and SUP214/SUPBi. In PHYSICAL REVIEW C, 2024, vol. 110, no. 3, art. no. 034324. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.034324>, *Registrované v: WOS*
- ADCA699 REHÁK, M. - NEILINGER, P. - GRAJCAR, Miroslav - OELSNER, G. - HUBNER, U. - ILICHEV, E. - MEYER, H.-G. Parametric amplification by coupled flux qubits. In Applied Physics Letters, 2014, vol. 104, no. 16, art. no. 162604. (2013: 3.515 - IF, Q1 - JCR, 2.149 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/1.4873719>
- Citácie:
1. [1.1] HOSSEINY, Seyed Mohammad - SEYED-YAZDI, Jamileh - NOROUZI, Milad - IRANNEZHAD, Fatemeh. Quantum Metrology in the Presence of Quantum Oscillations. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, 2024, vol. 63, no. 3, art. no. 76. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05616-9>, *Registrované v: WOS*

- ADCA700 REINHARDT, S. - ASCHERL, T. - COSTA, A. - BERGER, J. - GRONIN, S. - GARDNER, G.C. - LINDEMANN, T. - MANFRA, M.J. - FABIAN, J. - KOCHAN, Denis - STRUNK, C. - PARADISO, N. Link between supercurrent diode and anomalous Josephson effect revealed by gate-controlled interferometry. In *Nature Communications*, 2024, vol. 15, no. 1, art. no. 4413. (2023: 14.7 - IF, Q1 - JCR, 4.887 - SJR, Q1 - SJR). ISSN 2041-1723. Dostupné na: <https://doi.org/10.1038/s41467-024-48741-z>
- Citácie:
1. [1.1] CHI, Feng - SHEN, Yaohong - GAO, Yumei - LIU, Jia - FU, Zhenguo - YI, Zichuan - LIU, Liming. Supercurrent and Superconducting Diode Effect in Parallel Double Quantum Dots with Rashba Spin-Orbit Interaction. In *MATERIALS*, 2024, vol. 17, no. 18, art. no. 4497. Dostupné na: <https://doi.org/10.3390/ma17184497>, Registrované v: WOS
 2. [1.1] FRACASSI, Samuele - TRAVERSO, Simone - ZIANI, Niccolo Traverso - CARREGA, Matteo - HEUN, Stefan - SASSETTI, Maura. Anomalous supercurrent and diode effect in locally perturbed topological Josephson junctions. In *APPLIED PHYSICS LETTERS*, 2024, vol. 124, no. 24, art. no. 242601. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0210660>, Registrované v: WOS
 3. [1.1] MONAGHAN, R. D. - TETTAMANZI, G. C. The role of Rashba spin-orbit induced spin textures in the anomalous Josephson effect. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 10, art. no. 1059e8. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad7c01>, Registrované v: WOS
 4. [1.1] SCHIELA, William F. - YU, Peng - SHABANI, Javad. Progress in Superconductor-Semiconductor Topological Josephson Junctions. In *PRX QUANTUM*, 2024, vol. 5, no. 3, art. no. 030102. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.030102>, Registrované v: WOS
 5. [1.2] OSIN, A. S. - LEVCHENKO, Alex - KHODAS, Maxim. Anomalous Josephson diode effect in superconducting multilayers. In *Physical Review B*, 2024-05-01, 109, 18, pp. ISSN 24699950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.184512>, Registrované v: SCOPUS
 6. [1.2] SCHRADE, Constantin - FATEMI, Valla. Dissipationless nonlinearity in quantum material Josephson diodes. In *Physical Review Applied*, 2024-06-01, 21, 6, pp. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.21.064029>, Registrované v: SCOPUS
- ADCA701 REISNER, M. - MAZEA, F. - DAULIAT, R. - LECONTE, B. - AKTAS, Djeylan - CANNON, R. - ROY, P. - JAMIER, R. - SAUDER, G. - KAISER, F. - TANZILLI, S. - LABONTÉ, L.**. Quantum-limited determination of refractive index difference by means of entanglement. In *npj Quantum Information*, 2022, vol. 8, no. 1, art. no. 58. (2021: 10.758 - IF, Q1 - JCR, 3.385 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2056-6387. Dostupné na: <https://doi.org/10.1038/s41534-022-00567-7>
- Citácie:
1. [1.1] ZENG, Ziqi - YOU, Shixin - YANG, Zixiang - YUAN, Chenzhi - YOU, Chenglong - JIN, Ruibo. Controllable transitions among phase-matching conditions in a single nonlinear crystal. In *CHINESE OPTICS LETTERS*, 2024, vol. 22, no. 2, art. no. 021901. ISSN 1671-7694. Dostupné na: <https://doi.org/10.3788/COL202422.021901>, Registrované v: WOS
- ADCA702 REISZ, Berthold** - BELOVA, Valentina - DUVA, Giuliano - ZEISER, Clemens - HODAS, Martin - HODAS, Martin - ŠIFFALOVÍČ, Peter - PITHAN, Linus - HOSOKAI, Takuya - HINDERHOFER, Alexander - GERLACH, Alexander - SCHREIBER, Frank. Polymorphism and structure formation in copper

phthalocyanine thin films. In Journal of Applied Crystallography, 2021, vol. 54, part 1, pp. 203-210. (2020: 3.304 - IF, Q2 - JCR, 1.429 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0021-8898. Dostupné na: <https://doi.org/10.1107/S1600576720015472>

Citácie:

1. [1.1] BALAKHNINA, I. A. - CHIKISHEV, A. Yu. - BRANDT, N. N. Raman spectroscopy of thermo- and laser-induced transformations of gouache paint layer of copper phthalocyanine blue. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, 2024, vol. 318, no., art. no. 124430. ISSN 1386-1425. Dostupné na:

<https://doi.org/10.1016/j.saa.2024.124430>, Registrované v: WOS

2. [1.1] FELTRI, Elena - MONDELLI, Pierluigi - PETROVIC, Bojan - FERRARESE, Fabrizio Mario - SHAROVA, Alina - STOJANOVIC, Goran - LUZIO, Alessandro - CAIRONI, Mario. A Fully Edible Transistor Based on a Toothpaste Pigment. In ADVANCED SCIENCE, 2024, vol. 11, no. 41. Dostupné na: <https://doi.org/10.1002/advs.202404658>, Registrované v: WOS

3. [1.1] KARMAKAR, Sabyasachi - MUKHOPADHYAY, Mrinmay K. - SANYAL, Milan K. Investigation of the structure-transport correlation in metal phthalocyanine thin films. In PHYSICAL REVIEW MATERIALS, 2024, vol. 8, no. 2, art. no. 024601. ISSN 2475-9953. Dostupné na:

<https://doi.org/10.1103/PhysRevMaterials.8.024601>, Registrované v: WOS

4. [1.1] TANAKA, Shuhei - TAKAGAWA, Yusuke - MARUYAMA, Shingo - SHIBATA, Yosei - KOGANEZAWA, Tomoyuki - KAMINAGA, Kenichi - FUJIKAKE, Hideo - MATSUMOTO, Yuji. Epitaxial growth of copper phthalocyanine on a large single-grain of thin film alkyl perylene diimide. In JAPANESE JOURNAL OF APPLIED PHYSICS, 2024, vol. 63, no. 2, art. no. 025502. ISSN 0021-4922. Dostupné na:

<https://doi.org/10.35848/1347-4065/ad1847>, Registrované v: WOS

5. [1.1] TRAVKIN, V. V. - KOPTYAEV, A. I. - YUNIN, P. A. - GORDEEV, K. M. - PAKHOMOV, G. L. ILLUMINATION-INDUCED CHANGES IN PcVO PIGMENT FILMS. In JOURNAL OF STRUCTURAL CHEMISTRY, 2024, vol. 65, no. 6, pp. 1071-1082. ISSN 0022-4766. Dostupné na:

<https://doi.org/10.1134/S0022476624060015>, Registrované v: WOS

ADCA703 REITZNER, Daniel - HILLERY, M. - FELDMAN, E. - BUŽEK, Vladimír. Quantum searches on highly symmetric graphs. In Physical Review A, 2009, vol. 79, no. 1, art. no. 012323. (2008: 2.908 - IF, Q1 - JCR, 2.536 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.79.012323>

Citácie:

1. [1.1] HUANG, Jiani - LI, Dan - LI, Panlong - ZHOU, Yuqian - YANG, Yuguang. Perfect state transfer by means of discrete-time quantum walk on the complete bipartite graph. In PHYSICA SCRIPTA, 2024, vol. 99, no. 1, art. no. 015110. ISSN 0031-8949. Dostupné na:

<https://doi.org/10.1088/1402-4896/ad137a>, Registrované v: WOS

2. [1.1] SKOUPY, S. - STEFANAK, M. Search and state transfer between hubs by quantum walks. In PHYSICAL REVIEW A, 2024, vol. 110, no. 2, art. no. 022422. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.022422>, Registrované v: WOS

ADCA704 REITZNER, Daniel - HILLERY, M. - KOCH, D. Finding paths with quantum walks or quantum walking through a maze. In Physical Review A, 2017, vol. 96, no. 3, art. no. 032323. (2016: 2.925 - IF, Q1 - JCR, 1.482 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1050-2947. Dostupné na:

<https://doi.org/10.1103/PhysRevA.96.032323>

Citácie:

1. [1.1] HUANG, Jiani - LI, Dan - LI, Panlong - ZHOU, Yuqian - YANG, Yuguang. Perfect state transfer by means of discrete-time quantum walk on the complete bipartite graph. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 1, art. no. 015110. ISSN 0031-8949. Dostupné na:

<https://doi.org/10.1088/1402-4896/ad137a>, Registrované v: WOS

2. [1.1] LI SHUO - ZHANG RONG. Quantum Walk Wave-Particle Coherent Superposition. In *LASER & OPTOELECTRONICS PROGRESS*, 2024, vol. 61, no. 5, art. no. 0527002. ISSN 1006-4125. Dostupné na:

<https://doi.org/10.3788/LOP231007>, Registrované v: WOS

ADCA705

REITZNER, Daniel - HILLERY, Mark. Grover search under localized dephasing. In *Physical Review A*, 2019, vol. 99, no. 1, art. no. 012339. (2018: 2.907 - IF, Q2 - JCR, 1.058 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.99.012339>

Citácie:

1. [1.1] REN, Jiawei - SUI, Yulei - CHENG, Xiao - FENG, Yuan - ZHAO, Jianjun. Dynamic Transitive Closure-based Static Analysis through the Lens of Quantum Search. In *ACM TRANSACTIONS ON SOFTWARE ENGINEERING AND METHODOLOGY*, 2024, vol. 33, no. 5, art. no. 119. ISSN 1049-331X. Dostupné na: <https://doi.org/10.1145/3644389>, Registrované v: WOS

2. [1.1] SANKAR, Krishanu - SCHERER, Artur - KAKO, Satoshi - REIFENSTEIN, Sam - GHADERMARZY, Navid - KRAYENHOFF, Willem B. - INUI, Yoshitaka - NG, Edwin - ONODERA, Tatsuhiko - RONAGH, Pooya - YAMAMOTO, Yoshihisa. A benchmarking study of quantum algorithms for combinatorial optimization. In *NPJ QUANTUM INFORMATION*, 2024, vol. 10, no. 1, art. no. 64. Dostupné na: <https://doi.org/10.1038/s41534-024-00856-3>, Registrované v: WOS

3. [1.1] SANO, Yuki - MITARAI, Kosuke - YAMAMOTO, Naoki - ISHIKAWA, Naoki. Accelerating Grover Adaptive Search: Qubit and Gate Count Reduction Strategies With Higher Order Formulations. In *IEEE TRANSACTIONS ON QUANTUM ENGINEERING*, 2024, vol. 5, no., art. no. 3101712. Dostupné na: <https://doi.org/10.1109/TQE.2024.3393437>, Registrované v: WOS

4. [1.1] SUN, Yifan - WU, Lian-Ao. Quantum search algorithm on weighted databases. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 30169. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-81701-7>, Registrované v: WOS

5. [1.1] SUN, Yuan. Decoherence in Grover search algorithm. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 5, art. no. 183. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04399-6>, Registrované v: WOS

ADCA706

REPKO, Anton** - KVASIL, Jan - NESTERENKO, Valentin O. Elimination of spurious modes within quasiparticle random-phase approximation. In *Physical Review C*, 2019, vol. 99, no. 4, art. no. 044307. (2018: 3.132 - IF, Q2 - JCR, 1.502 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.99.044307>

Citácie:

1. [1.1] HOSGOR, G. - TABAR, E. - KEMAH, E. - YAKUT, H. - AKKAYA, K. - GOKMEN, Z. The giant dipole resonance (GDR) in odd-mass *SUP181-195/SUPPt* nuclei. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 11, art. no. 115305. ISSN 0031-8949. Dostupné na:

<https://doi.org/10.1088/1402-4896/ad86f5>, Registrované v: WOS

2. [1.1] TABAR, E. - HOSGOR, G. - YAKUT, H. - KEMAH, E. - KOMURCU, Y. Karademirci. On the low-energy electromagnetic dipole modes in SUP151,153,155/SUPSm Nuclei. In CHINESE JOURNAL OF PHYSICS, 2024, vol. 92, no., pp. 1158-1173. ISSN 0577-9073. Dostupné na: <https://doi.org/10.1016/j.cjph.2024.10.030>, Registrované v: WOS

ADCA707 REPKO, Anton - NESTERENKO, V. O. - KVASIL, J. - REINHARD, P.-G.**. Systematics of toroidal dipole modes in Ca, Ni, Zr, and Sn isotopes. In European Physical Journal A, 2019, vol. 55, no. 12, art. no. 242. (2018: 2.481 - IF, Q2 - JCR, 1.172 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/i2019-12770-x>

Citácie:

1. [1.1] BRANDHERM, I. - VON NEUMANN-COSEL, P. - MANCINO, R. - MARTINEZ-PINEDO, G. - MATSUBARA, H. - PONOMAREV, V. Yu. - RICHTER, A. - SCHECK, M. - TAMII, A. Electric and magnetic dipole strength in SUP58/SUPNi from forward-angle proton scattering. In PHYSICAL REVIEW C, 2024, vol. 110, no. 3, art. no. 034319. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.034319>, Registrované v: WOS

ADCA708 REPKO, Anton - KVASIL, J. - NESTERENKO, V.O.** - REINHARD, P.-G. Pairing and deformation effects in nuclear excitation spectra. In European Physical Journal A, 2017, vol. 53, no. 11, art. no. 221. (2016: 2.833 - IF, Q2 - JCR, 0.561 - SJR, Q3 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/i2017-12406-3>

Citácie:

1. [1.1] RADUTA, A. A. - RADUTA, C. M. - RADUTA, Alexandru Horia. Toward a new approach for the pygmy dipole resonance in even-even nuclei. Application to isotopes SUP144,148,150,152,154/SUPSm. In JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, 2024, vol. 51, no. 4, art. no. 045107. ISSN 0954-3899. Dostupné na: <https://doi.org/10.1088/1361-6471/ad27e4>, Registrované v: WOS

2. [1.1] TABAR, E. - HOSGOR, G. - YAKUT, H. - KEMAH, E. - KOMURCU, Y. Karademirci. On the low-energy electromagnetic dipole modes in SUP151,153,155/SUPSm Nuclei. In CHINESE JOURNAL OF PHYSICS, 2024, vol. 92, no., pp. 1158-1173. ISSN 0577-9073. Dostupné na: <https://doi.org/10.1016/j.cjph.2024.10.030>, Registrované v: WOS

3. [1.1] XU, Yi - BALABANSKI, Dimiter L. - BARAN, Virgil - IORGA, Cristian - MATEI, Catalin. Vortex photon induced nuclear reaction: Mechanism, model, and application to the studies of giant resonance and astrophysical reaction rate. In PHYSICS LETTERS B, 2024, vol. 852, no., art. no. 138622. ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2024.138622>, Registrované v: WOS

4. [1.2] RADUTA, A. A. - RADUTA, C. M. - RADUTA, Alexandru Horia. Toward a new approach for the pygmy dipole resonance in even-even nuclei. Application to isotopes 144,148,150,152,154Sm. In Journal of Physics G Nuclear and Particle Physics, 2024-04-01, 51, 4, pp. ISSN 09543899. Dostupné na: <https://doi.org/10.1088/1361-6471/ad27e4>, Registrované v: SCOPUS

5. [1.2] XU, Yi - BALABANSKI, Dimiter L. - BARAN, Virgil - IORGA, Cristian - MATEI, Catalin. Vortex photon induced nuclear reaction: Mechanism, model, and application to the studies of giant resonance and astrophysical reaction rate. In Physics Letters Section B Nuclear Elementary Particle and High Energy Physics, 2024-05-01, 852, pp. ISSN 03702693. Dostupné na: <https://doi.org/10.1016/j.physletb.2024.138622>, Registrované v: SCOPUS

ADCA709 RIAL, J. - ŠVEC, Peter Jr. - PALMERO, E.M. - CAMARERO, J. - ŠVEC, Peter -

BOLLERO, A.**. Severe tuning of permanent magnet properties in gas-atomized MnAl powder by controlled nanostructuring and phase transformation. In *Acta Materialia*, 2018, vol. 157, p. 42-52. (2017: 6.036 - IF, Q1 - JCR, 3.263 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1359-6454. Dostupné na: <https://doi.org/10.1016/j.actamat.2018.07.010>

Citácie:

1. [1.1] LIANG, Dong - ZHU, Tao - SHAO, Zhuyin - LIU, Shunquan - HAN, Jingzhi - DU, Honglin - XU, Qing - WANG, Changsheng - YANG, Wenyun - YANG, Jinbo. Study on the relationship between structure and magnetic properties of τ -phase MnAl prepared by cryo-milling. In *AIP ADVANCES*, 2024, vol. 14, no. 1, art. no. 015227. Dostupné na: <https://doi.org/10.1063/9.0000642>, Registrované v: WOS

2. [1.1] TAVOOSI, Majid. Detailed Investigation on Possible Phases during Solid-State Synthesis of MnAl Intermetallic Compound. In *IRANIAN JOURNAL OF MATERIALS SCIENCE AND ENGINEERING*, 2024, vol. 21, no. 3, art. no. 3550. ISSN 1735-0808. Dostupné na: <https://doi.org/10.22068/ijmse.3550>, Registrované v: WOS

ADCA710 RIAL, J. - ŠVEC, Peter Jr. - ŠVEC, Peter - BOLLERO, A. - DELEDDA, S.**. Coercivity development in MnAl ribbons by microstructural modifications achieved through cold-rolling process. In *Journal of Magnetism and Magnetic Materials*, 2021, vol. 529, art. no. 167826. (2020: 2.993 - IF, Q2 - JCR, 0.665 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2021.167826>

Citácie:

1. [1.1] FORTUNA, A. S. - GORSHENKOV, M. V. - ROGACHEV, S. O. - SUNDEEV, R. V. - LAPTEV, A. I. Applying High-Pressure Torsion to Deformation of a Recrystallized τ -MnAl Alloy: Results and Problems. In *JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE*, 2024, vol. 33, no. 11, pp. 5529-5535. ISSN 1059-9495. Dostupné na: <https://doi.org/10.1007/s11665-023-08315-4>, Registrované v: WOS

ADCA711 RIBANSKÝ, I. - PANTELEEV, T. - STOEVA, L. Neutron-activation cross-sections for Cr isotopes at 14.6 MeV neutron energy. In *Annals of Nuclear Energy*, 1985, vol. 12, no. 11, p. 577-581. ISSN 0306-4549. Dostupné na: [https://doi.org/10.1016/0306-4549\(85\)90010-6](https://doi.org/10.1016/0306-4549(85)90010-6)

Citácie:

1. [1.1] WANG, Wenye - WANG, Jimin - HAN, Yinlu - XI, Tao - JIN, Yongli - XU, Ruirui - YUE, Zhang. Calculations and analysis of n +SUP52/SUPCr reactions below 20 MeV. In *JOURNAL OF NUCLEAR SCIENCE AND TECHNOLOGY*, 2024, vol. 61, no. 2, pp. 237-250. ISSN 0022-3131. Dostupné na: <https://doi.org/10.1080/00223131.2023.2294191>, Registrované v: WOS

ADCA712 RICHARDS, H.L. - KOLESÍK, Miroslav - LINDGARD, P.A. - RIKVOLD, P.A. - NOVOTNY, M.A. Effects of boundary conditions on magnetization switching in kinetic Ising models of nanoscale ferromagnets. In *Physical Review B*, 1997, vol. 55, no. 17, p. 11521-11540. (1996: 2.975 - IF, karentované - CCC). (1997 - Current Contents). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.55.11521>

Citácie:

1. [1.1] ABALMASOV, Veniamin A. Free energy and metastable states in the square-lattice J_1 - J_2 Ising model. In *SCIPOST PHYSICS*, 2024, vol. 16, no. 6, art. no. 151. ISSN 2542-4653. Dostupné na: <https://doi.org/10.21468/SciPostPhys.16.6.151>, Registrované v: WOS

ADCA713 RIVAS, M. - MARTÍNEZ-GARCÍA, J.C. - ŠKORVÁNEK, Ivan - MARCIN, Jozef -

ŠVEC, Peter - GORRIA, Pedro. Magnetostatic interaction in soft magnetic bilayer ribbons unambiguously identified by first-order reversal curve analysis. In *Applied Physics Letters*, 2015, vol. 107, no. 13, art. no. 132403. (2014: 3.302 - IF, Q1 - JCR, 1.861 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/1.4932066>

Citácie:

1. [1.1] MAN, Wanchang - JING, Ruiyi - HUANG, Yunyao - YANG, Yule - LALETIN, Vladimir - SHUR, Vladimir - WEI, Xiaoyong - JIN, Li. Tuning phase structure for enhanced electrostrain in NbS₂P₅+S₂P₅-doped Bi_{0.5}(Na_{0.81}K_{0.19})_{0.5}TiO₃ lead-free piezoelectric ceramics. In *CERAMICS INTERNATIONAL*, 2024, vol. 50, no. 16, pp. 28335-28343. ISSN 0272-8842. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.05.138>, Registrované v: WOS

2. [1.1] PITONAK, Martin - GANEV, Nikolaj - ZGUTOVA, Katarina - CAPEK, Jiri - NESLUSAN, Miroslav - TROJAN, Karel. Influence of Demagnetization and Microstructure Non-Homogeneity on Barkhausen Noise in the High-Strength Low-Alloyed Steel 1100 MC. In *APPLIED SCIENCES-BASEL*, 2024, vol. 14, no. 4, art. no. 1511. Dostupné na: <https://doi.org/10.3390/app14041511>, Registrované v: WOS

ADCA714 ROIK, Nadiia V. - BELYAKOVA, Lyudmila O. - ISCHENKO, Mykola V. - ŠVEC, Peter Jr. - ROIK, Oleksandr S. Synthesis, hydrolytic stability, and phase transformation of (Co, Co/Zn, Zn)-ZIFs with cuboid morphology of particles. In *Microporous and Mesoporous Materials*, 2024, vol. 376, no. 11, art. no. 113186. (2023: 4.8 - IF, Q1 - JCR, 0.941 - SJR, Q1 - SJR). ISSN 1387-1811. Dostupné na: <https://doi.org/10.1016/j.micromeso.2024.113186>

Citácie:

1. [1.1] LIU, Chen - YAN, Xin - ZHANG, He-Xin - YANG, Jian-ming - YOON, Keun-Byoung. Silicone-modified black peanut shell (BPS) biochar adsorbents: Preparation and their adsorptions for copper(II) from water. In *HELIYON*, 2024, vol. 10, no. 15, art. no. e35169. Dostupné na: <https://doi.org/10.1016/j.heliyon.2024.e35169>, Registrované v: WOS

ADCA715 ROJAS-ARIAS, J.S. ** - NOIRI, A. - STAÑO, Peter - NAKAJIMA, T. - YONEDA, J. - TAKEDA, K. - KOBAYASHI, T. - SAMMAK, A. - SCAPPUCCI, G. - LOSS, D. - TARUCHA, S. Spatial noise correlations beyond nearest neighbors in 28Si/Si-Ge spin qubits. In *Physical Review Applied*, 2023, vol. 20, no. 5, art. no. 054024. (2022: 4.6 - IF, Q2 - JCR, 1.492 - SJR, Q1 - SJR). ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.20.054024>

Citácie:

1. [1.1] CHOI, Yujun - JOYNT, Robert. Interacting random-field dipole defect model for heating in semiconductor-based qubit devices. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 1, art. no. 013168. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.013168>, Registrované v: WOS

2. [1.1] GYS, Benjamin - BURGELMAN, Lander - DE GREVE, Kristiaan - GIELEN, Georges - CATTHOOR, Francky. Hybrid Hamiltonian Simulation Approach for the Analysis of Quantum Error Correction Protocol Robustness. In *IEEE TRANSACTIONS ON QUANTUM ENGINEERING*, 2024, vol. 5, no., art. no. 5500511. Dostupné na: <https://doi.org/10.1109/TQE.2024.3486546>, Registrované v: WOS

3. [1.1] KHAN, Muhammad Qasim - DONG, Wenzheng - NORRIS, Leigh M. - VIOLA, Lorenza. Multiaxis quantum noise spectroscopy robust to errors in state preparation and measurement. In *PHYSICAL REVIEW APPLIED*, 2024, vol. 22, no. 2, art. no. 024074. ISSN 2331-7019. Dostupné na:

<https://doi.org/10.1103/PhysRevApplied.22.024074>, Registrované v: WOS

4. [1.1] KHROMETTS, Bohdan - BAUGH, Jonathan. Quantum optimal control robust to $1/f$ noises using fractional calculus: Voltage-controlled exchange in semiconductor spin qubits. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 4, art. no. L040602. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.110.L040602>, Registrované v: WOS

5. [1.1] MEHMANDOOST, M. - DOBROVITSKI, V. V. Decoherence induced by a sparse bath of two-level fluctuators: Peculiar features of $1/f$ noise in high-quality qubits. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 3, art. no. 033175. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.033175>, Registrované v: WOS

6. [1.1] STUYCK, Nard Dumoulin - SEEDHOUSE, Amanda E. - SERRANO, Santiago - TANTTU, Tuomo - GILBERT, Will - HUANG, Jonathan Yue - HUDSON, Fay - ITOH, Kohei M. - LAUCHT, Arne - LIM, Wee Han - YANG, Chih Hwan - SARAIVA, Andre - DZURAK, Andrew S. Silicon spin qubit noise characterization using real-time feedback protocols and wavelet analysis. In *APPLIED PHYSICS LETTERS*, 2024, vol. 124, no. 11, art. no. 114003. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0179958>, Registrované v: WOS

- ADCA716 ROLDÁN, Alicia Marín - DWIVEDI, Vishal - PISARČÍK, Matej - VEIS, Matej - MIŠKOVIČOVÁ, Julia - HALAHOVETS, Yuriy - ŠIFFALOVIC, Peter - DRŽÍK, Milan - VEIS, Pavel**. LIBS investigation of metals suitable for plasma-facing components: Characteristics and comparison of picosecond and nanosecond regimes. In *Fusion Engineering and Design*, 2021, vol. 172, no. 11, art. no. 112898. (2020: 1.453 - IF, Q3 - JCR, 0.656 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0920-3796. Dostupné na: <https://doi.org/10.1016/j.fusengdes.2021.112898>

Citácie:

1. [1.1] WUEST, E. - SCHWARZ-SELINGER, T. - KAWAN, C. - GAO, L. - BREZINSEK, S. Depth-resolved deuterium retention analysis in displacement-damaged tungsten using laser-induced breakdown spectroscopy. In *PHYSICS OF PLASMAS*, 2024, vol. 31, no. 8, art. no. 082510. ISSN 1070-664X. Dostupné na: <https://doi.org/10.1063/5.0211493>, Registrované v: WOS

- ADCA717 ROŠKO, M. - BUŽEK, Vladimír - CHOUHA, P.R. - HILLERY, M. Generalized measurements via programmable quantum processor. In *Physical Review A*, 2003, vol. 68, no. 6, art. no. 062302. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.68.062302>

Citácie:

1. [1.1] RODARI, Giovanni - HOCH, Francesco - SUPRANO, Alessia - GIORDANI, Taira - NEGRO, Elena - CARVACHO, Gonzalo - SPAGNOLO, Nicolo - GALVAO, Ernesto F. - SCIARRINO, Fabio. Polarization-encoded photonic quantum-to-quantum Bernoulli factory based on a quantum dot source. In *SCIENCE ADVANCES*, 2024, vol. 10, no. 30, art. no. eado6244. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.ado6244>, Registrované v: WOS

- ADCA718 ROTHE, S. - ANDREYEV, A.N. - ANTALIC, S. - BORSCHESKY, A. - CAPPONI, L. - COCOLIOS, T.E. - DE WITTE, H. - ELIAV, E. - FEDOROV, D.V. - FEDOSSEEV, V.N. - FINK, D.A. - FRITZSCHE, S. - GHYS, L. - HUYSE, M. - IMAI, N. - KALDOR, U. - KUDRYAVTSEV, Yu. - KOSTER, U. - LANE, J.F.W. - LASSEN, J. - LIBERATI, V. - LYNCH, K.M. - MARSH, B.A. - NISHIO, K. - PAUWELS, D. - PERSHINA, V. - POPESCU, L. - PROCTER, T.J. - RADULOV, D. - RAEDER, S. - RAJABALI, M.M. - RAPISARDA, E. - ROSSEL, R.E. - SANDHU, K. - SELIVERSTOV, M.D. - SJODIN, A.M. - VAN DEN BERGH, P. -

VAN DUPPEN, P. - VENHART, Martin - WAKABAYASHI, Y. - WENDT, K.D.A. Measurement of the first ionization potential of astatine by laser ionization spectroscopy. In *Nature Communications*, 2013, vol. 4, art. no. 1835. (2012: 10.015 - IF, Q1 - JCR, 5.866 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 2041-1723. Dostupné na: <https://doi.org/10.1038/ncomms2819>

Citácie:

1. [1.1] DEMIDOV, Yuriy A. - SHALAEVSKY, Alexander A. - OLEYNICHENKO, Alexander V. - RUSAKOV, Alexander A. Uncovering chemical homology of superheavy elements: a close look at astatine. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*, 2024, vol. 26, no. 36, pp. 23823-23834. ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/d4cp01868k>, Registrované v: WOS

2. [1.1] DONG, Taotao - ZHANG, Zhenru - LI, Weicai - ZHUO, Weibin - CUI, Tongjiang - LI, Zijing. Synthesis Principle and Practice with Radioactive Iodines and Astatine: Advances Made So Far. In *JOURNAL OF ORGANIC CHEMISTRY*, 2024, vol. 89, no. 17, pp. 11837-11863. ISSN 0022-3263. Dostupné na: <https://doi.org/10.1021/acs.joc.4c00593>, Registrované v: WOS

3. [1.1] GAO, Juan - ZENG, Wei - LUO, Ruibing - LIU, Zhengtang - LIU, Qi-Jun. The Applicable Guideline for the Three Criteria in Identifying p/n-Type Characteristics. In *CRYSTAL GROWTH & DESIGN*, 2024, vol. 24, no. 9, pp. 3777-3785. ISSN 1528-7483. Dostupné na: <https://doi.org/10.1021/acs.cgd.4c00108>, Registrované v: WOS

4. [1.1] MUHAMMAD, Nadeem - HUSSAIN, Irshad - ALI, Amjad - NOUREEN, Laila - HE, Qing - SUBHANI, Qamar - KHAN, Niaz Ali - CUI, Hairong - ZHU, Yan. Ion chromatography: A comprehensive review of sample preparation methods for analysis of halogens and allied nonmetals in critically challenging inorganic matrices. In *JOURNAL OF CHROMATOGRAPHY A*, 2024, vol. 1734, no., art. no. 465311. ISSN 0021-9673. Dostupné na: <https://doi.org/10.1016/j.chroma.2024.465311>, Registrované v: WOS

5. [1.1] YE, Tianzhen - QIN, Yilin - LIU, Weihao - XIA, Lingting - LIAO, Jiali - YANG, Jijun - LAN, Tu - YANG, Yuanyou - LIU, Ning - LI, Feize. A new strategy for facile and rapid separation of astatine-211 from nitric acid medium. In *SEPARATION AND PURIFICATION TECHNOLOGY*, 2024, vol. 330, no., art. no. 125284. ISSN 1383-5866. Dostupné na: <https://doi.org/10.1016/j.seppur.2023.125284>, Registrované v: WOS

6. [1.1] ZADEH, Sina Hossein - CAKIRHAN, Cem - KHATAMSAZ, Danial - BROUCEK, John - BROWN, Timothy D. - QIAN, Xiaoning - KARAMAN, Ibrahim - ARROYAVE, Raymundo. Data-driven study of composition-dependent phase compatibility in NiTi shape memory alloys. In *MATERIALS & DESIGN*, 2024, vol. 244, no., art. no. 113096. ISSN 0264-1275. Dostupné na: <https://doi.org/10.1016/j.matdes.2024.113096>, Registrované v: WOS

7. [1.1] ZHOU, Hu - WANG, Yiqing - WANG, He - WANG, Guangyi - LI, Yuan - FENG, Dong - TU, Zheyang - SONG, Lixun - WU, Gang - WU, Qiang - ZHANG, Xin - ZONG, Zewen - LI, Zebin - ZHAO, Yongtao - ZHANG, Hongfei - CHEN, Ximeng. Large Negative-Ion Formation in Grazing Scattering of Neutral Carbon Atoms from a CsI(100) Surface. In *JOURNAL OF PHYSICAL CHEMISTRY C*, 2024, vol. 128, no. 42, pp. 18110-18118. ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.4c05356>, Registrované v: WOS

ADCA719

ROUHBAKHSH N, Mahdi - GHOREISHI, Seyed Arash**. Geometric bloch vector solution to minimum-error discriminations of mixed qubit states. In *Quantum Information Processing*, 2023, vol. 22, no. 8, art. no. 323. (2022: 2.5 - IF, Q1 - JCR, 0.588 - SJR, Q2 - SJR). ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-023-04080-4>

Citácie:

1. [1.1] KECHRIMPARIS, Spiros - MORAN, James - KARSA, Athena - LEE, Changhyoup - KWON, Hyukjoon. Enhancing quantum state discrimination with indefinite causal order. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 12, art. no. 123030. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ada05e>, Registrované v: WOS

ADCA720 RÓZSA, L.** - PALOTÁS, Krisztián - DEÁK, A. - SIMON, E. - YANES, R. - UDVARDI, L. - SZUNYOGH, L. Formation and stability of metastable skyrmionic spin structures with various topologies in an ultrathin film. In *Physical Review B*, 2017, vol. 95, no. 9, art. no. 094423. (2016: 3.836 - IF, Q2 - JCR, 2.339 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.95.094423>

Citácie:

1. [1.1] FEDOSEEV, A. D. - SHUSTIN, M. S. - DZEBISASHVILI, D. M. Bound States of High-Order Magnetic Skyrmions and a Superconducting Pearl Vortex. In *JETP LETTERS*, 2024, vol. 120, no. 7, pp. 517-524. ISSN 0021-3640. Dostupné na: <https://doi.org/10.1134/S0021364024602896>, Registrované v: WOS

ADCA721 RUNGTA, P. - BUŽEK, Vladimír - CAVES, C.M. - HILLERY, M. - MILBURN, G.J. Universal state inversion and concurrence in arbitrary dimensions. In *Physical Review A*, 2001, vol. 64, no. 4, art. no. 042315. (2000: 2.684 - IF). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.64.042315>

Citácie:

1. [1.1] ADAMBUKULAM, C. - JOHNSON, B. C. - MORELLO, A. - LAUCHT, A. Hyperfine Spectroscopy and Fast, All-Optical Arbitrary State Initialization and Readout of a Single, Ten-Level ^{73}Ge Vacancy Nuclear Spin Qudit in Diamond. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 6, art. no. 060603. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.060603>, Registrované v: WOS

2. [1.1] AGUILAR-SAAVEDRA, J. A. Tripartite entanglement in $H \rightarrow ZZ W W$ decays. In *PHYSICAL REVIEW D*, 2024, vol. 109, no. 11, art. no. 113004. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.109.113004>, Registrované v: WOS

3. [1.1] BAK, Sang-Eon - ALSING, Paul M. - MILLER, Warner A. - ASLMARAND, Shahabeddin M. - AHN, Doyeol. A tripartite entanglement in de Sitter spacetime. In *CHINESE JOURNAL OF PHYSICS*, 2024, vol. 88, no., pp. 462-474. ISSN 0577-9073. Dostupné na: <https://doi.org/10.1016/j.cjph.2023.11.006>, Registrované v: WOS

4. [1.1] BARR, Alan J. - FABBRICHESI, Marco - FLOREANINI, Roberto - GABRIELLI, Emidio - MARZOLA, Luca. Quantum entanglement and Bell inequality violation at colliders. In *PROGRESS IN PARTICLE AND NUCLEAR PHYSICS*, 2024, vol. 139, no., art. no. 104134. ISSN 0146-6410. Dostupné na: <https://doi.org/10.1016/j.pnpnp.2024.104134>, Registrované v: WOS

5. [1.1] BERNAL, A. - CASAS, J. A. - MORENO, J. M. Entanglement and entropy in multipartite systems: a useful approach. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 2, art. no. 56. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-023-04246-0>, Registrované v: WOS

6. [1.1] CAO, Yue - JING, Naihuan - MISRA, Kailash - WANG, Yiling. Tighter parameterized monogamy relations. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 8, art. no. 282. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04495-7>, Registrované v: WOS

7. [1.1] CAO, Yue - JING, Naihuan - WANG, Yiling. Tighter Bounds of Generalized Monogamy and Polygamy Relations. In *INTERNATIONAL*

- JOURNAL OF THEORETICAL PHYSICS*, 2024, vol. 63, no. 11, art. no. 284. ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-024-05823-4>, Registrované v: WOS
8. [1.1] CAO, Yue - JING, Naihuan - WANG, Yiling. Weighted monogamy and polygamy relations. In *LASER PHYSICS LETTERS*, 2024, vol. 21, no. 4, art. no. 045205. ISSN 1612-2011. Dostupné na: <https://doi.org/10.1088/1612-202X/ad2921>, Registrované v: WOS
9. [1.1] CHANG, Spencer - JACOBO, Gabriel. Consequences of minimal entanglement in bosonic field theories. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 9, art. no. 096020. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.096020>, Registrované v: WOS
10. [1.1] CHEN, Son-Hsien. Origin and early growth of entanglement by sd exchange with gate voltage controllable outcome. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 4, art. no. 045308. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.045308>, Registrované v: WOS
11. [1.1] COFFMAN, Luke - SESHADRI, Akshay - SMITH, Graeme - BECKEY, Jacob L. Local measurement strategies for multipartite entanglement quantification. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 1, art. no. 012454. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.012454>, Registrované v: WOS
12. [1.1] DAI WEI-PENG - HE KAN - HOU JIN-CHUAN. Parameterized entanglement measures based on Renyi- α entropy. In *ACTA PHYSICA SINICA*, 2024, vol. 73, no. 4, art. no. 040303. ISSN 1000-3290. Dostupné na: <https://doi.org/10.7498/aps.73.20231503>, Registrované v: WOS
13. [1.1] DANESHMAND, Fatemeh - BAGHSHAHI, Hamid Reza - MIRAFZALI, Sayyed Yahya. Quantum Fisher information and entanglement of a dissipative hybrid optomechanical system with multi-photon transition. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 6, art. no. 226. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04444-4>, Registrované v: WOS
14. [1.1] DEL SANTO, Flavio - CZARTOWSKI, Jakub - ZYCZKOWSKI, Karol - GISIN, Nicolas. Iso-entangled bases and joint measurements. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 2, art. no. 023085. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.023085>, Registrované v: WOS
15. [1.1] FILATOV, Stanislav - AUZINSH, Marcis. Towards Two Bloch Sphere Representation of Pure Two-Qubit States and Unitaries. In *ENTROPY*, 2024, vol. 26, no. 4, art. no. 280. Dostupné na: <https://doi.org/10.3390/e26040280>, Registrované v: WOS
16. [1.1] GE, Xiaozhen - LIU, Lijun - WANG, Yong - XIANG, Yu - ZHANG, Guofeng - LI, Li - CHENG, Shuming. Faithful geometric measures for genuine tripartite entanglement. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 1, art. no. L010402. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.L010402>, Registrované v: WOS
17. [1.1] GHOSAL, Pratik - GHOSAL, Arkaprabha - BANDYOPADHYAY, Somshubhro. Distribution of quantum gravity induced entanglement in many-body systems. In *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, 2024, vol. 57, no. 44, art. no. 445302. ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/ad82bd>, Registrované v: WOS
18. [1.1] GUO, Yu. Complete genuine multipartite entanglement monotone. In *RESULTS IN PHYSICS*, 2024, vol. 57, no., art. no. 107430. ISSN 2211-3797. Dostupné na: <https://doi.org/10.1016/j.rinp.2024.107430>, Registrované v: WOS
19. [1.1] GUO, Yu. Monogamy of k-entanglement. In *PHYSICAL REVIEW A*,

- 2024, vol. 110, no. 1, art. no. 012405. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.012405>, Registrované v: WOS
20. [1.1] GUPTA, Sparsh - YADALAM, Hari Kumar - KULKARNI, Manas - ARON, Camille. Quantum jumps in driven-dissipative disordered many-body systems. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 5, art. no. L050201. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.L050201>, Registrované v: WOS
21. [1.1] LI, Jiaxin - YAO, Hongmei - FEI, Shao-Ming - FAN, Zhaobing - MA, Haitao. Quantum entanglement estimation via symmetric-measurement-based positive maps. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 5, art. no. 052426. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.052426>, Registrované v: WOS
22. [1.1] LIU, Zhao-Di - SILTANEN, Olli - KUUSELA, Tom - MIAO, Rui-Heng - NING, Chen-Xi - LI, Chuan-Feng - GUO, Guang-Can - PIILO, Jyrki. Overcoming noise in quantum teleportation with multipartite hybrid entanglement. In *SCIENCE ADVANCES*, 2024, vol. 10, no. 18, art. no. eadj3435. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.adj3435>, Registrované v: WOS
23. [1.1] LOUBENETS, Elena R. - KUZNETSOV, Sergey - HANOTEL, Louis. Quantifying Bell nonlocality of a pure two-qudit state via its entanglement. In *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, 2024, vol. 57, no. 5, art. no. 055302. ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/ad1b74>, Registrované v: WOS
24. [1.1] LUNA-HERNANDEZ, Salvio - ENRIQUEZ, Marco - ROSAS-ORTIZ, Oscar. A geometric formulation to measure global and genuine entanglement in three-qubit systems. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 25684. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-76566-9>, Registrované v: WOS
25. [1.1] MACHADO, P. - MONKEN, C. H. - PADUA, S. Quantum coherence distribution and high-dimensional complementarity. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 1, art. no. 012210. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.012210>, Registrované v: WOS
26. [1.1] MINKE, Alexander M. - BUCHLEITNER, Andreas - CARNIO, Edoardo G. Entanglement structures in disordered chains of nitrogen-vacancy centers. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 5, art. no. 052604. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.052604>, Registrované v: WOS
27. [1.1] MISHRA, Ansh - MAHANTI, Soumik - ROY, Abhinash Kumar - PANIGRAHI, Prasanta K. Geometric genuine multipartite entanglement for four-qubit systems. In *PHYSICS OPEN*, 2024, vol. 20, no., art. no. 100230. ISSN 2666-0326. Dostupné na: <https://doi.org/10.1016/j.physo.2024.100230>, Registrované v: WOS
28. [1.1] MORALES, R. A. Tripartite entanglement and Bell non-locality in loop-induced Higgs boson decays. In *EUROPEAN PHYSICAL JOURNAL C*, 2024, vol. 84, no. 6, art. no. 581. ISSN 1434-6044. Dostupné na: <https://doi.org/10.1140/epjc/s10052-024-12921-4>, Registrované v: WOS
29. [1.1] PLODZIEN, Marcin - CHWEDENCZUK, Jan - LEWENSTEIN, Maciej - RAJCHEL-MIELDZIOC, Grzegorz. Entanglement classification and non-k-separability certification via Greenberger-Horne-Zeilinger-class fidelity. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 3, art. no. 032428. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.032428>, Registrované v: WOS
30. [1.1] REICHL, L. E. - ESTRELLA, F. Particle-hole thermalization in a

composite superconducting and normal-conducting nanowire. In *PHYSICAL REVIEW E*, 2024, vol. 109, no. 1, art. no. 014226. ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.109.014226>, Registrované v: WOS

31. [1.1] ROLCZYNSKI, Brian S. - DIAZ, Sebastian A. - GOLDMAN, Ellen R. - MEDINTZ, Igor L. - MELINGER, Joseph S. Investigating the dissipation of heat and quantum information from DNA-scaffolded chromophore networks. In *JOURNAL OF CHEMICAL PHYSICS*, 2024, vol. 160, no. 3, art. no. 034105. ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/5.0181034>, Registrované v: WOS

32. [1.1] RUFO, Pablo Guillermo Carmona - MAZUMDAR, Anupam - BOSE, Sougato - SABIN, Carlos. Digital quantum simulation of gravitational optomechanics with IBM quantum computers. In *EPJ QUANTUM TECHNOLOGY*, 2024, vol. 11, no. 1, art. no. 31. ISSN 2662-4400. Dostupné na: <https://doi.org/10.1140/epjqt/s40507-024-00242-0>, Registrované v: WOS

33. [1.1] SHEN, Zhong-Xi - XUAN, Dong-Ping - ZHOU, Wen - WANG, Zhi-Xi - FEI, Shao-Ming. Optimized generalized monogamy relations and upper bounds for N-qubit systems. In *LASER PHYSICS LETTERS*, 2024, vol. 21, no. 10, art. no. 105207. ISSN 1612-2011. Dostupné na: <https://doi.org/10.1088/1612-202X/ad771c>, Registrované v: WOS

34. [1.1] SHEN, Zhong-Xi - YANG, Kang-Kang - JIN, Zhi-Xiang - WANG, Zhi-Xi - FEI, Shao-Ming. Tighter monogamy relations of the SSUPt/SUP and TSUPt/SUPq-entropy entanglement measures based on dual entropy. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 7, art. no. 274. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04481-z>, Registrované v: WOS

35. [1.1] SUN, Wenlong - JIN, Yuanfeng - LU, Gang. Genuine multipartite entanglement from a thermodynamic perspective. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 4, art. no. 042422. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.042422>, Registrované v: WOS

36. [1.1] WANG, Ren - BAO, Pan-Yi - HU, Zhi-Qiang - SHI, Shuai - WANG, Bing-Zhong - ZHELUDEV, Nikolay I. - SHEN, Yijie. Observation of resilient propagation and free-space skyrmions in toroidal electromagnetic pulses. In *APPLIED PHYSICS REVIEWS*, 2024, vol. 11, no. 3, art. no. 031411. ISSN 1931-9401. Dostupné na: <https://doi.org/10.1063/5.0218207>, Registrované v: WOS

37. [1.1] XING, Ling-Ling - YANG, Huan - KONG, Min - ZHANG, Gang. Suppressing the degeneration of quantum resources through coupling auxiliary qubits. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 4, art. no. 045118. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad3303>, Registrované v: WOS

38. [1.1] YANG, Xue - ALIMUDDIN, Mir - YANG, Yan-Han - LUO, Ming-Xing. Characterizing bipartite entanglement via the ergotropic gap. In *QUANTUM INFORMATION PROCESSING*, 2024, vol. 23, no. 12, art. no. 382. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04599-0>, Registrované v: WOS

39. [1.1] ZHANG, Chengjie - DENKER, Sophia - ASADIAN, Ali - GUEHNE, Otfried. Analyzing Quantum Entanglement with the Schmidt Decomposition in Operator Space. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 4, art. no. 040203. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.040203>, Registrované v: WOS

40. [1.1] ZHOU, Qing - ZHEN, Yi-Zheng - XU, Xin-Yu - ZHAO, Shuai - YANG, WenLi - FEI, Shao-Ming - LI, Li - LIU, Nai-Le - CHEN, Kai. Local unitary equivalence of arbitrary-dimensional multipartite quantum states. In *PHYSICAL*

REVIEW A, 2024, vol. 109, no. 2, art. no. 022427. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.022427>, Registrované v: WOS
41. [1.1] ZHU, Yuwei - ZHANG, Xingjian - MA, Xiongfeng. Interplay among entanglement, measurement incompatibility, and nonlocality. In *QUANTUM SCIENCE AND TECHNOLOGY*, 2024, vol. 9, no. 4, art. no. 045008. ISSN 2058-9565. Dostupné na: <https://doi.org/10.1088/2058-9565/ad5aba>, Registrované v: WOS

ADCA722 RUSANOV, B. A.** - SIDOROV, V. E. - MOROZ, A. I. - ŠVEC, Peter - JANIČKOVIČ, Dušan. Density and Electrical Resistivity of Al-Ni-Co-Sm(Tb) Alloys. In *Technical Physics Letters*, 2021, vol. 47, no. 10, p. 770-772. (2020: 0.714 - IF, Q4 - JCR, 0.338 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1063-7850. Dostupné na: <https://doi.org/10.1134/S1063785021080101>

Citácie:

1. [1.1] STARODUBTSEV, Yuri N. - TSEPELEV, Vladimir S. - KONASHKOV, Viktor V. - TSEPELEVA, Nadezhda P. Melting, Solidification, and Viscosity Properties of Multicomponent Fe-Cu-Nb-Mo-Si-B Alloys with Low Aluminum Addition. In *MATERIALS*, 2024, vol. 17, no. 2, art. no. 474. Dostupné na: <https://doi.org/10.3390/ma17020474>, Registrované v: WOS

ADCA723 RUSANOV, Boris** - SIDOROV, Valeriy - ŠVEC, Peter Jr. - ŠVEC, Peter - JANIČKOVIČ, Dušan - MOROZ, Anastasia - SON, Leonid - USHAKOVA, Olga. Electric properties and crystallization behavior of Al-TM-REM amorphous alloys. In *Journal of Alloys and Compounds*, 2019, vol. 787, p. 448-451. (2018: 4.175 - IF, Q1 - JCR, 1.065 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2019.02.058>

Citácie:

1. [1.1] SAHU, Ashutosh - MAURYA, Ram Sajeewan - LAHA, Tapas. Advances in Synthesis and Characterization of Aluminum-Based Amorphous Alloys: A Review. In *ADVANCED ENGINEERING MATERIALS*, 2024, vol. 26, no. 1. ISSN 1438-1656. Dostupné na: <https://doi.org/10.1002/adem.202301150>, Registrované v: WOS

ADCA724 RUSSEW, K. - SOMMER, F. - DUHAJ, Pavol - BAKONYI, Y. Viscous-flow behavior of NIXZR100-X metallic glasses from NI30ZR70 to NI64ZR36. In *Journal of Materials Science*, 1992, vol. 27, no. 13, p. 3565-3569. (1991: 0.800 - IF, karentované - CCC). (1992 - Current Contents). ISSN 0022-2461. Dostupné na: <https://doi.org/10.1007/BF01151833>

Citácie:

1. [1.1] TURCHANIN, M. A. - AGRAVAL, P. G. - VODOPYANOVA, G. O. - KORSUN, V. A. Thermodynamic Properties of the Glass-Forming Ternary (Fe, Co, Ni, Cu)-Ti-Zr Liquid Alloys II. Temperature-Concentration Dependence of Thermodynamic Mixing Functions and Chemical Ordering in Liquid Alloys. In *POWDER METALLURGY AND METAL CERAMICS*, 2024, vol. 62, no. 11-12, pp. 722-736. ISSN 1068-1302. Dostupné na: <https://doi.org/10.1007/s11106-024-00430-8>, Registrované v: WOS

2. [1.2] AGRAVAL, Pavel - TURCHANIN, Mikhail - DREVAL, Liya - VODOPYANOVA, Anna. Application of CALPHAD Method for Predicting of Concentration Range of Amorphization of Transition Metals Melts. In *Defect and Diffusion Forum*, 2024-01-01, 431, pp. 35-45. ISSN 10120386. Dostupné na: <https://doi.org/10.4028/p-IVL7LU>, Registrované v: SCOPUS

ADCA725 RUSSOTTO, P. - GANNON, S. - KUPNY, S. - LASKO, P. - ACOSTA, L. - ADAMCZYK, M. - AL-AJLAN, A. - AL-GARAWI, M. - AL-HOMAIDHI, S. -

AMORINI, F. - AUDITORE, L. - AUMANN, T. - AYYAD, Y. - BASRAK, Z. - BENLLIURE, J. - BOISJOLI, M. - BORETZKY, K. - BRZYCHCZYK, J. - BUDZANOWSKI, A. - CAESAR, C. - CARDELLA, G. - CAMMARATA, P. - CHAJECKI, Z. - CHARTIER, M. - CHBIHI, A. - COLONNA, M. - COZMA, M.D. - CZECH, B. - DE FILIPPO, E. - DI TORO, M. - FAMIANO, M. - GAŠPARIĆ, I. - GRASSI, L. - GUAZZONI, C. - GUAZZONI, P. - HEIL, M. - HEILBORN, L. - INTROZZI, R. - ISOBE, T. - KEZZAR, K. - KIŠ, M. - KRASZNAHORKAY, A. - KURZ, N. - LA GUIDARA, E. - LANZALONE, G. - LE FÉVRE, A. - LEIFELS, Y. - LEMMON, R.C. - LI, Q.F. - LOMBARDO, I. - LUKASIK, J. - LYNCH, W.G. - MARINI, P. - MATTHEWS, Z. - MAY, L. - MINNITI, T. - MOSTAZO, M. - PAGANO, A. - PAGANO, E.V. - PAPA, M. - PAWLOWSKI, P. - PIRRONE, S. - POLITI, G. - PORTO, F. - REVIOL, W. - RICCIO, F. - RIZZO, F. - ROSATO, E. - ROSSI, D. - SANTORO, S. - SARANTITES, D.G. - SIMON, H. - SKWIRCZYNSKA, I. - SOSIN, Z. - STUHL, L. - TRAUTMANN, W. - TRIFIRO, A. - TRIMARCHI, M. - TSANG, M.B. - VERDE, G. - VESELSKÝ, Martin - VIGILANTE, M. - WANG, Y. - WIELOCH, A. - WIGG, P. - WINKELBAUER, J. - WOLTER, H.H. - WU, P. - YENNELLO, S. - ZAMBON, P. - ZETTA, L. - ZORIC, M. Results of the ASY-EOS experiment at GSI: The symmetry energy at suprasaturation density. In *Physical Review C*, 2016, vol. 94, no. 3, art. no. 034608. (2015: 3.146 - IF, Q2 - JCR, 1.993 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.94.034608>

Citácie:

1. [1.1] BOCHARNIKOV, V. - DERKACH, D. - GOLUBEVA, M. - GUBER, F. - MOROZOV, S. - PARFENOV, P. - RATNIKOV, F. *Neutron Reconstruction in the BM@N Experiment Using Machine Learning*. In *PHYSICS OF PARTICLES AND NUCLEI*, 2024, vol. 55, no. 4, pp. 995-999. ISSN 1063-7796. Dostupné na: <https://doi.org/10.1134/S1063779624700400>, Registrované v: WOS
2. [1.1] BRESCHI, Matteo - GAMBÀ, Rossella - CARULLO, Gregorio - GODZIEBA, Daniel - BERNUZZI, Sebastiano - PEREGO, Albino - RADICE, David. *Bayesian inference of multi-messenger astrophysical data: Joint and coherent inference of gravitational waves and kilonovae*. In *ASTRONOMY & ASTROPHYSICS*, 2024, vol. 689, no., art. no. A51. ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202449173>, Registrované v: WOS
3. [1.1] BURGIO, G. F. - DAS, H. C. - VIDANA, I. *The nuclear symmetry energy and the neutron skin thickness in nuclei*. In *FRONTIERS IN ASTRONOMY AND SPACE SCIENCES*, 2024, vol. 11, no., art. no. 1505560. ISSN 2296-987X. Dostupné na: <https://doi.org/10.3389/fspas.2024.1505560>, Registrované v: WOS
4. [1.1] DHANI, Arnab - RADICE, David - SCHUETTE-ENGEL, Jan - GARDNER, Susan - SATHYAPRAKASH, Bangalore - LOGOTETA, Domenico - PEREGO, Albino - KASHYAP, Rahul. *Prospects for direct detection of black hole formation in neutron star mergers with next-generation gravitational-wave detectors*. In *PHYSICAL REVIEW D*, 2024, vol. 109, no. 4, art. no. 044071. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.109.044071>, Registrované v: WOS
5. [1.1] DIVARIS, M. - KANAKIS-PEGIOS, A. - MOUSTAKIDIS, Ch. C. *Constraints on the isovector properties of finite nuclei from neutron star observations*. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 5, art. no. 055805. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.055805>, Registrované v: WOS
6. [1.1] ESER, Juergen - BLAIZOT, Jean-Paul. *Thermodynamics of the parity-doublet model. II. Asymmetric and neutron matter*. In *PHYSICAL REVIEW C*,

2024, vol. 110, no. 6, art. no. 065205. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.065205>, Registrované v: WOS

7. [1.1] FORE, Bryce - KAISER, Norbert - REDDY, Sanjay - WARRINGTON, Neill C. Mass of charged pions in neutron-star matter. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 2, art. no. 025803. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.025803>, Registrované v: WOS

8. [1.1] IMAM, Sk Md Adil - MALIK, Tuhin - PROVIDENCIA, Constanca - AGRAWAL, B. K. Implications of comprehensive nuclear and astrophysics data on the equations of state of neutron star matter. In *PHYSICAL REVIEW D*, 2024, vol. 109, no. 10, art. no. 103025. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.109.103025>, Registrované v: WOS

9. [1.1] IMAM, Sk Md Adil - SAXENA, Prafulla - MALIK, Tuhin - PATRA, N. K. - AGRAWAL, B. K. Calibrating global behavior of equation of state by combining nuclear and astrophysics inputs in a machine learning approach. In *PHYSICAL REVIEW D*, 2024, vol. 110, no. 10, art. no. 103042. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.103042>, Registrované v: WOS

10. [1.1] JACOBI, M. - GUERCILENA, F. M. - HUTH, S. - RICIGLIANO, G. - ARCONES, A. - SCHWENK, A. Effects of nuclear matter properties in neutron star mergers. In *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*, 2024, vol. 527, no. 3, pp. 8812-8828. ISSN 0035-8711. Dostupné na: <https://doi.org/10.1093/mnras/stad3738>, Registrované v: WOS

11. [1.1] MACHLEIDT, R. - SAMMARRUCA, F. Recent advances in chiral EFT based nuclear forces and their applications. In *PROGRESS IN PARTICLE AND NUCLEAR PHYSICS*, 2024, vol. 137, no., art. no. 104117. ISSN 0146-6410. Dostupné na: <https://doi.org/10.1016/j.ppnp.2024.104117>, Registrované v: WOS

12. [1.1] PANG, Peter T. H. - SIVERTSEN, Lars - SOMASUNDARAM, Rahul - DIETRICH, Tim - SEN, Srimoyee - TEWS, Ingo - COUGHLIN, Michael W. - VAN DEN BROECK, Chris. Probing quarkyonic matter in neutron stars with the Bayesian nuclear-physics multimessenger astrophysics framework. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 2, art. no. 025807. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.025807>, Registrované v: WOS

13. [1.1] SAMMARRUCA, Francesca. The Neutron Skin of SUP48/SUPCa and SUP208/SUPPb: A Critical Analysis. In *SYMMETRY-BASEL*, 2024, vol. 16, no. 1, art. no. 34. Dostupné na: <https://doi.org/10.3390/sym16010034>, Registrované v: WOS

14. [1.1] SENGER, Peter. Probing the Equation of State of Dense Nuclear Matter by Heavy Ion Collision Experiments. In *SYMMETRY-BASEL*, 2024, vol. 16, no. 9, art. no. 1162. Dostupné na: <https://doi.org/10.3390/sym16091162>, Registrované v: WOS

15. [1.1] TSANG, C. Y. - KURATA-NISHIMURA, M. - TSANG, M. B. - LYNCH, W. G. - ZHANG, Y. X. - BARNEY, J. - ESTEE, J. - JHANG, G. - WANG, R. - KANEKO, M. - LEE, J. W. - ISOBE, T. - MURAKAMI, T. - AHN, D. S. - ATAR, L. - AUMANN, T. - BABA, H. - BORETZKY, K. - BRZYCHCZYK, J. - CERIZZA, G. - CHIGA, N. - FUKUDA, N. - GASPARIC, I. - HONG, B. - HORVAT, A. - IEKI, K. - INABE, N. - KIM, Y. J. - KOBAYASHI, T. - KONDO, Y. - LASKO, P. - LEE, H. S. - LEIFELS, Y. - LUKASIK, J. - MANFREDI, J. - MCINTOSH, A. B. - MORFOUACE, P. - NAKAMURA, T. - NAKATSUKA, N. - NISHIMURA, S. - OTSU, H. - PAWLOWSKI, P. - PELCZAR, K. - ROSSI, D. - SAKURAI, H. - SANTAMARIA, C. - SATO, H. - SCHEIT, H. - SHANE, R. - SHIMIZU, Y. Constraining nucleon effective masses with flow and stopping observables from the $\sqrt{s}$ RIT experiment. In *PHYSICS LETTERS B*, 2024, vol. 853, no., art. no. 138661. ISSN 0370-2693. Dostupné na:

<https://doi.org/10.1016/j.physletb.2024.138661>, Registrované v: WOS

16. [1.1] V. BEZNOGOV, Mikhail - RADUTA, Adriana R. Bayesian inference of the dense matter equation of state built upon extended Skyrme interactions. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 3, art. no. 035805. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.035805>, Registrované v: WOS

17. [1.1] VINAS, Xavier - BANO, Parveen - NAIK, Zashmir - ROUTRAY, Tusar Ranjan. Nuclear Matter Properties and Neutron Star Phenomenology Using the Finite Range Simple Effective Interaction. In *SYMMETRY-BASEL*, 2024, vol. 16, no. 2, art. no. 215. Dostupné na: <https://doi.org/10.3390/sym16020215>, Registrované v: WOS

18. [1.1] WANG, Yongjia - GAO, Bo - WEI, Guojun - LI, Pengcheng - LI, Qingfeng. Time evolution of elliptic flow and medium density in heavy-ion collisions at intermediate energies. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 4, art. no. 044606. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.044606>, Registrované v: WOS

19. [1.1] WU, Zehan - WEN, Dehua. From masses and radii of neutron stars to EOS of nuclear matter through neural network. In *CHINESE PHYSICS C*, 2024, vol. 48, no. 2, art. no. 024101. ISSN 1674-1137. Dostupné na: <https://doi.org/10.1088/1674-1137/ad0e04>, Registrované v: WOS

20. [1.1] YAO, Nanxi - SORENSEN, Agnieszka - DEXHEIMER, Veronica - NORONHA-HOSTLER, Jacquelyn. Structure in the speed of sound: From neutron stars to heavy-ion collisions. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 6, art. no. 065803. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.065803>, Registrované v: WOS

21. [1.2] BURGIO, Fiorella - SCHULZE, Hans Joseph - VIDANÁ, Isaac - WEI, Jin Biao. Neutron Stars and Multimessenger Observations: A Challenge for Nuclear Physics Theory. In *Nuclear Theory in the Age of Multimessenger Astronomy*, 2024-01-01, pp. 81-110. ISBN [9781032307756, 9781040044742]. Dostupné na: <https://doi.org/10.1201/9781003306580-4>, Registrované v: SCOPUS

22. [1.2] DIVARIS, Manolis - KANAKIS-PEGIOS, Alkiviadis - MOUSTAKIDIS, Charalampos. Isovector properties of finite nuclei: constraints from neutron stars observations. In *EPJ Web of Conferences*, 2024-10-08, 304, pp. ISSN 21016275. Dostupné na: <https://doi.org/10.1051/epjconf/202430402005>, Registrované v: SCOPUS

23. [1.2] MASELLI, Andrea - PANNARALE, Francesco. Multimessenger Constraints on the Neutron Star Equation of State Microphysics. In *Nuclear Theory in the Age of Multimessenger Astronomy*, 2024-01-01, pp. 53-80. ISBN [9781032307756, 9781040044742]. Dostupné na: <https://doi.org/10.1201/9781003306580-3>, Registrované v: SCOPUS

24. [1.2] SOMASUNDARAM, Rahul - TEWS, Ingo. Inference of Microscopic Nuclear Interactions and the Equation of State from Multimessenger Astrophysics. In *Nuclear Theory in the Age of Multimessenger Astronomy*, 2024-01-01, pp. 144-180. ISBN [9781032307756, 9781040044742]. Dostupné na: <https://doi.org/10.1201/9781003306580-6>, Registrované v: SCOPUS

ADCA726

RYBÁŘ, Tomáš - FILIPPOV, S.N. - ZIMAN, Mário - BUŽEK, Vladimír. Simulation of indivisible qubit channels in collision models. In *Journal of Physics B*, 2012, vol. 45, no. 15, art. no. 154006. (2011: 1.875 - IF, Q2 - JCR, 1.061 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0953-4075. Dostupné na: <https://doi.org/10.1088/0953-4075/45/15/154006>

Citácie:

1. [1.1] AZEVEDO, Thiago Melo D. - DUARTE, Cristhiano - BERNARDES, Nadja K. Distillation of quantum non-Markovianity. In *PHYSICS LETTERS A*, 2024, vol. 512, no. ISSN 0375-9601. Dostupné na: <https://doi.org/10.1016/j.physleta.2024.129582>, Registrované v: WOS
2. [1.1] HU, Le - JORDAN, Andrew N. Probabilistic unitary formulation of open quantum system dynamics. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 6, art. no. 062205. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.062205>, Registrované v: WOS
3. [1.1] MALO, Jorge Yago - LEPORI, Luca - GENTINI, Laura - CHIOFALO, Maria Luisa (Marilu). Atomic Quantum Technologies for Quantum Matter and Fundamental Physics Applications. In *TECHNOLOGIES*, 2024, vol. 12, no. 5, art. no. 64. Dostupné na: <https://doi.org/10.3390/technologies12050064>, Registrované v: WOS
4. [1.1] SAHA, Tanmay - DAS, Arpan - GHOSH, Sibasish. Quantum homogenization in non-Markovian collisional model. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 2, art. no. 023011. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad212f>, Registrované v: WOS

ADCA727 RYBÁŘ, Tomáš - ZIMAN, Mário. Process estimation in the presence of time-invariant memory effects. In *Physical Review A*, 2015, vol. 92, no. 4, art. 042315. (2014: 2.808 - IF, Q1 - JCR, 2.201 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.92.042315>

Citácie:

1. [1.1] YANG, Yaoling - MONTENEGRO, Victor - BAYAT, Abolfazl. Sequential-measurement thermometry with quantum many-body probes. In *PHYSICAL REVIEW APPLIED*, 2024, vol. 22, no. 2, art. no. 024069. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.22.024069>, Registrované v: WOS

ADCA728 SAHOO, Prangya Parimita** - GÜNEREN, Alper - HUDEC, Boris - MIKOLÁŠEK, M. - NADA, Ahmed A. - PRECNEROVÁ, Magdaléna - MIČUŠÍK, Matej - LENČEŠ, Zoltán - NÁDAŽDY, Peter - FRÖHLICH, Karol. Stabilization of the solid-electrolyte-interphase layer and improvement of the performance of silicon-graphite anodes by nanometer-thick atomic-layer-deposited ZnO films. In *ACS Applied Nano Materials*, 2024, vol. 7, no. 16, p. 18486-18498. (2023: 5.3 - IF, Q2 - JCR, 1.134 - SJR, Q1 - SJR). ISSN 2574-0970. Dostupné na: <https://doi.org/10.1021/acsanm.3c05066>

Citácie:

1. [1.1] FANG, T. - HIKIMA, K. - MUTO, H. - MATSUDA, A. - FUJII, Y. - MIURA, A. - TADANAGA, K. Inorganic-Organic Hybrid Sulfide Solid Electrolytes Based on the Tetraalkylammonium Iodide-LiI-Li₂S-P₂S₅ System. In *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*. ISSN 0013-4651, OCT 1 2024, vol. 171, no. 10. Dostupné na: <https://doi.org/10.1149/1945-7111/ad8481>, Registrované v: WOS
2. [1.1] LIU, J.M. - HE, Z. - ZHAO, T.F. - WEI, Y.Q. - HOU, L.P. - SONG, Y.F. - WANG, Y.X. Nano ZnO modified amorphous carbon materials enabling long-cycle performance and high-capacity for lithium/sodium-ion batteries. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, NOV 15 2024, vol. 500. Dostupné na: <https://doi.org/10.1016/j.cej.2024.157389>, Registrované v: WOS
3. [1.1] MAJEED, M.K. - HUSSAIN, A. - HUSSAIN, G. - MAJEED, M.U. - ASHFAQ, M.Z. - IQBAL, R. - SALEEM, A. Interfacial Engineering of Polymer Solid-State Lithium Battery Electrolytes and Li-Metal Anode: Current Status and Future Directions. In *SMALL*. ISSN 1613-6810, DEC 2024, vol. 20, no. 52.

- ADCA729 *Dostupné na:* <https://doi.org/10.1002/sml.202406357>, *Registrované v:* WOS
 SALEHTASH, Farnoush - HVIZDOŠOVÁ, Adriana, Annušová - STEPURA, Anastasiia - SOYKA, Yaryna - HALAHOVETS, Yuriy - HOFBAUEROVÁ, Monika, Benkovičová - MIČUŠÍK, Matej - KOTLÁR, Mário - NÁDAŽDY, Peter - ALBRYCHT, Pawel - ŠIFFALOVÍČ, Peter - JERGEL, Matej - OMASTOVÁ, Mária - MAJKOVÁ, Eva**. SERS performance of Ti3C2Tx MXene-based substrates correlates with surface morphology. In *Materials*, 2024, vol. 17, no. 6, art. no. 1385 [15] p. (2023: 3.1 - IF, Q1 - JCR, 0.565 - SJR, Q2 - SJR). ISSN 1996-1944.
Dostupné na: <https://doi.org/10.3390/ma17061385>
Citácie:
 1. [1.1] JANG, Moonjeong - KIM, Seoung Hyun - KIM, Shinho - CHAE, Kwanbyung - CHOI, Sodam - HA, Hwi Heon - SONG, Jungchul - BAK, Min Jun - CHO, Su-Ho - KIM, Eunji - SONG, Wooseok - HAN, Hee - JANG, Min Seok - AHN, Chi Won - LEE, Yonghee. Unleashing 2D MXene's; Plasmonic Effect for Advanced Photonic Device Applications. In *ADVANCED FUNCTIONAL MATERIALS*, 2024, vol. 34, no. 46. ISSN 1616-301X. *Dostupné na:* <https://doi.org/10.1002/adfm.202405341>, *Registrované v:* WOS
- ADCA730 SARKAR, Saubhik - MUKHOPADHYAY, Chiranjib - ALASE, Abhijeet - BAYAT, Abolfazl. Free-Fermionic Topological Quantum Sensors. In *Physical Review Letters*, 2022, vol. 129, no. 9, art. no. 090503. (2021: 9.185 - IF, Q1 - JCR, 3.246 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. *Dostupné na:* <https://doi.org/10.1103/PhysRevLett.129.090503>
Citácie:
 1. [1.1] GUO, Zhiwei - WANG, Yuqian - KE, Shaolin - SU, Xiaoqiang - REN, Jie - CHEN, Hong. 1D Photonic Topological Insulators Composed of Split Ring Resonators: A Mini Review. In *ADVANCED PHYSICS RESEARCH*, 2024, vol. 3, no. 6, art. no. 2300125. ISSN 2751-1200. *Dostupné na:* <https://doi.org/10.1002/apxr.202300125>, *Registrované v:* WOS
 2. [1.1] MERCADO, Miguel - CHEN, Kyle - DAREKAR, Parth Hemant - NAKANO, Aiichiro - DI FELICE, Rosa - HAAS, Stephan. Dynamics of symmetry-protected topological matter on a quantum computer. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 7, art. no. 075116. ISSN 2469-9950. *Dostupné na:* <https://doi.org/10.1103/PhysRevB.110.075116>, *Registrované v:* WOS
 3. [1.1] SAHOO, Ayan - MISHRA, Utkarsh - RAKSHIT, Debraj. Localization-driven quantum sensing. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 3, art. no. L030601. ISSN 2469-9926. *Dostupné na:* <https://doi.org/10.1103/PhysRevA.109.L030601>, *Registrované v:* WOS
 4. [1.1] YE, Hai-Ning - WAN, Bao-Fei - ZHAO, Yu-Qi - LI, Bing-Xiang - ZHANG, Hai-Feng. Responsive refractive index sensor based on actively tuning liquid crystal topological edge states. In *PHYSICS OF FLUIDS*, 2024, vol. 36, no. 7, art. no. 077103. ISSN 1070-6631. *Dostupné na:* <https://doi.org/10.1063/5.0212260>, *Registrované v:* WOS
 5. [1.1] YE, Jun - ZOLLER, Peter. Essay: Quantum Sensing with Atomic, Molecular, and Optical Platforms for Fundamental Physics. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 19, art. no. 190001. ISSN 0031-9007. *Dostupné na:* <https://doi.org/10.1103/PhysRevLett.132.190001>, *Registrované v:* WOS
 6. [1.1] YU, Min - LI, Xiangbei - CHU, Yaoming - MERA, Bruno - UENAL, F. Nur - YANG, Pengcheng - LIU, Yu - GOLDMAN, Nathan - CAI, Jianming. Experimental demonstration of topological bounds in quantum metrology. In *NATIONAL SCIENCE REVIEW*, 2024, vol. 11, no. 10. ISSN 2095-5138. *Dostupné na:* <https://doi.org/10.1093/nsr/nwae065>, *Registrované v:* WOS

- ADCA731 SATO, Yosuke* - MATSUO, Sadashige* - HSU, Chen-Hsuan - STANO, Peter - UEDA, Kento - TAKESHIGE, Yuusuke - KAMATA, Hiroshi - LEE, Joon Sue - SHOJAEI, Borzoyeh - WICKRAMASINGHE, Kaushini - SHABANI, Javad - PALMSTRØM, Chris - TOKURA, Yasuhiro - LOSS, Daniel - TARUCHA, Seigo**. Strong electron-electron interactions of a Tomonaga-Luttinger liquid observed in InAs quantum wires. In *Physical Review B*, 2019, vol. 99, no. 15, art. no. 155304. (2018: 3.736 - IF, Q1 - JCR, 1.502 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.99.155304>
- Citácie:
- [1.1] BAKHSHIPOUR, Zeinab - HOSSEINI, Mir Vahid. *Electron-electron interactions in partially mixed helical states*. In *JOURNAL OF PHYSICS-CONDENSED MATTER*, 2024, vol. 36, no. 39, art. no. 395601. ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/1361-648X/ad5ad2>, Registrované v: WOS
 - [1.1] BRADLEY, Victor - SHARMA, Kamal - HAFEZI, Mohammad - DEGOTTARDI, Wade. *Quantum Wire Coupled to Light*. In *PRX QUANTUM*, 2024, vol. 5, no. 4, art. no. 040338. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.040338>, Registrované v: WOS
 - [1.1] SHUSTIN, M. S. - AKSENOV, S. - BURMISTROV, I. S. *Topological phases induced by charge fluctuations in Majorana wires*. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 7, art. no. 075435. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.075435>, Registrované v: WOS
- ADCA732 SAZIM, Sheik** - SEDLÁK, Michal** - SINGH, Kratveer - PATI, Arun Kumar. Classical communication with indefinite causal order for N completely depolarizing channels. In *Physical Review A*, 2021, vol. 103, no. 6, art. no. 062610. (2020: 3.140 - IF, Q2 - JCR, 1.391 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.103.062610>
- Citácie:
- [1.1] KARPAT, Goktug - CAKMAK, Baris. *Memory in quantum processes with indefinite time direction and causal order*. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 1, art. no. 012446. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.012446>, Registrované v: WOS
 - [1.1] KECHRIMPARIS, Spiros - MORAN, James - KARSA, Athena - LEE, Changhyoup - KWON, Hyukjoon. *Enhancing quantum state discrimination with indefinite causal order*. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 12, art. no. 123030. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ada05e>, Registrované v: WOS
 - [1.1] MA, Nannan - ZHAO, P. Z. - GONG, Jiangbin. *Quantum machine learning with indefinite causal order*. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 5, art. no. 052406. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.052406>, Registrované v: WOS
 - [1.1] MUKHERJEE, Saheli - MALLICK, Bivas - YANAMANDRA, Sravani - BHATTACHARYA, Samyadeb - MAITY, Ananda G. *Interplay between the Hilbert-space dimension of a control system and the memory induced by a quantum switch*. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 4, art. no. 042624. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.042624>, Registrované v: WOS
 - [1.1] ROZEMA, Lee A. - STROEMBERG, Teodor - CAO, Huan - GUO, Yu - LIU, Bi-Heng - WALTHER, Philip. *Experimental aspects of indefinite causal order in quantum mechanics*. In *NATURE REVIEWS PHYSICS*, 2024, vol. 6, no. 8, pp. 483-499. Dostupné na: <https://doi.org/10.1038/s42254-024-00739-8>,

Registrované v: WOS

6. [1.1] TANG, Hao - GUO, Yu - HU, Xiao-Min - HUANG, Yun-Feng - LIU, Bi-Heng - LI, Chuan-Feng - GUO, Guang-Can. Demonstration of superior communication through thermodynamically free channels in an optical quantum switch. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 3, art. no. 032422. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.032422>,

Registrované v: WOS

ADCA733 SCALA, Giovanni - GHOREISHI, Seyed Arash - PAWŁOWSKI, Marcin. Advantages of quantum communication revealed by the reexamination of hyperbit theory limitations. In *Physical Review A*, 2024, vol. 109, no. 2, art. no. 022230. (2023: 2.6 - IF, Q2 - JCR, 1.081 - SJR, Q1 - SJR). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.022230>

Citácie:

1. [1.1] ALJUAYDI, Fahad - ABDELAZIM, Samar - DARWISH, Mohamed M. - ZIDAN, Mohammed. A Quantum Algorithm for Boolean Functions Processing. In *IEEE ACCESS*, 2024, vol. 12, no., pp. 164503-164519. ISSN 2169-3536.

Dostupné na: <https://doi.org/10.1109/ACCESS.2024.3486333>, Registrované v: WOS

2. [1.1] GHIASI, Pouyan - GHORBANI, Somayyeh - HOSSEINY, Seyed Mohammad - NOROUZI, Milad - MOHEBBI, Razie - SEYED-YAZDI, Jamileh. Quantum dense coding in two-qubit anisotropic XY Heisenberg model with Herring-Flicker coupling. In *APPLIED PHYSICS B-LASERS AND OPTICS*, 2024, vol. 130, no. 12, art. no. 219. ISSN 0946-2171. Dostupné na:

<https://doi.org/10.1007/s00340-024-08346-2>, Registrované v: WOS

ADCA734 SCARANI, V. - ZIMAN, Mário - ŠTELMACHOVIČ, Peter - GISIN, N. - BUŽEK, Vladimír. Thermalizing quantum machines: Dissipation and entanglement. In *Physical Review Letters*, 2002, vol. 88, no. 9, art. no. 097905. (2001: 6.668 - IF, karentované - CCC). (2002 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.88.097905>

Citácie:

1. [1.1] BEEVER, Anna - VIOLARIS, Maria - MARLETTO, Chiara - VEDRAL, Vlatko. Comparing coherent and incoherent models for quantum homogenization. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 1, art. no. 012464. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.012464>, Registrované v:

WOS

2. [1.1] CUSUMANO, Stefano - DE CHIARA, Gabriele. Structured quantum collision models: generating coherence with thermal resources. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 2, art. no. 023001. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad202a>, Registrované v: WOS

3. [1.1] DE BIEVRE, Stephan - MERKLI, Marco - PARRIS, Paul E. Rigorous results on approach to thermal equilibrium, entanglement, and nonclassicality of an optical quantum field mode scattering from the elements of a non-equilibrium quantum reservoir. In *QUANTUM*, 2024, vol. 8, no., art. no. 1360. ISSN 2521-327X., Registrované v: WOS

4. [1.1] DUNLOP, Joe - CERISOLA, Federico - TABANERA-BRAVO, Jorge - ANDERS, Janet. Thermodynamically optimal protocols for dual-purpose qubit operations. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 3, art. no. 033005. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.033005>, Registrované v: WOS

5. [1.1] HSIEH, Chung-Yun - CHEN, Shin-Liang. Thermodynamic Approach to Quantifying Incompatible Instruments. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 17, art. no. 170401. ISSN 0031-9007. Dostupné na:

<https://doi.org/10.1103/PhysRevLett.133.170401>, Registrované v: WOS

6. [1.1] LI, Lei - WANG, Chun-Hui - YIN, Hong-Hao - WANG, Ru-Quan - LIU, Wu-Ming. Quantum synchronization with correlated baths. In CHINESE PHYSICS B, 2024, vol. 33, no. 2, art. no. 020306. ISSN 1674-1056. Dostupné na: <https://doi.org/10.1088/1674-1056/ad0bef>, Registrované v: WOS

7. [1.1] LUO, MingXing. Quantumness speeds up quantum thermodynamics processes. In ISCIENCE, 2024, vol. 27, no. 5, art. no. 109722. Dostupné na: <https://doi.org/10.1016/j.isci.2024.109722>, Registrované v: WOS

8. [1.1] MALO, Jorge Yago - LEPORI, Luca - GENTINI, Laura - CHIOFALO, Maria Luisa (Marilu). Atomic Quantum Technologies for Quantum Matter and Fundamental Physics Applications. In TECHNOLOGIES, 2024, vol. 12, no. 5, art. no. 64. Dostupné na: <https://doi.org/10.3390/technologies12050064>, Registrované v: WOS

9. [1.1] MOLITOR, Otavio A. D. - MALAVAZI, Andre H. A. - BALDIJAO, Roberto Dobal - ORTHEY JR, Alexandre C. - PAIVA, Ismael L. - DIEGUEZ, Pedro R. Quantum switch instabilities with an open control. In COMMUNICATIONS PHYSICS, 2024, vol. 7, no. 1, art. no. 373. ISSN 2399-3650. Dostupné na: <https://doi.org/10.1038/s42005-024-01843-y>, Registrované v: WOS

10. [1.1] MORI, Takashi. Strong Markov Dissipation in Driven-Dissipative Quantum Systems. In JOURNAL OF STATISTICAL PHYSICS, 2024, vol. 192, no. 1, art. no. 1. ISSN 0022-4715. Dostupné na: <https://doi.org/10.1007/s10955-024-03377-7>, Registrované v: WOS

11. [1.1] RIECHERS, Paul M. - GUPTA, Chaitanya - KOLCHINSKY, Artemy - GU, Mile. Thermodynamically Ideal Quantum State Inputs to Any Device. In PRX QUANTUM, 2024, vol. 5, no. 3, art. no. 030318. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.030318>, Registrované v: WOS

12. [1.1] SAHA, Tanmay - DAS, Arpan - GHOSH, Sibasish. Quantum homogenization in non-Markovian collisional model. In NEW JOURNAL OF PHYSICS, 2024, vol. 26, no. 2, art. no. 023011. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad212f>, Registrované v: WOS

13. [1.1] STRACHAN, David J. - PURKAYASTHA, Archak - CLARK, Stephen R. Extracting dynamical maps of non-Markovian open quantum systems. In JOURNAL OF CHEMICAL PHYSICS, 2024, vol. 161, no. 15, art. no. 154105. ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/5.0228428>, Registrované v: WOS

14. [1.1] TANG, Hao - GUO, Yu - HU, Xiao-Min - HUANG, Yun-Feng - LIU, Bi-Heng - LI, Chuan-Feng - GUO, Guang-Can. Demonstration of superior communication through thermodynamically free channels in an optical quantum switch. In PHYSICAL REVIEW A, 2024, vol. 110, no. 3, art. no. 032422. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.032422>, Registrované v: WOS

15. [1.1] TIAN, Feng - ZOU, Jian - LI, Hai - HAN, Liping - SHAO, Bin. Relationship between Information Scrambling and Quantum Darwinism. In ENTROPY, 2024, vol. 26, no. 1, art. no. 19. Dostupné na: <https://doi.org/10.3390/e26010019>, Registrované v: WOS

16. [1.1] XI, Cheng - LIU, Xiangjing - LIU, Hongfeng - HUANG, Keyi - LONG, Xinyue - EBLER, Daniel - NIE, Xinfang - DAHLSTEN, Oscar - LU, Dawei. Experimental Validation of Enhanced Information Capacity by Quantum Switch in Accordance with Thermodynamic Laws. In PHYSICAL REVIEW LETTERS, 2024, vol. 133, no. 4, art. no. 040401. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.040401>, Registrované v: WOS

17. [1.1] YOSIFOV, Alexander - IYER, Aditya - EBLER, Daniel - VEDRAL,

Vlatko. Quantum homogenization as a quantum steady-state protocol on noisy intermediate-scale quantum hardware. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 3, art. no. 032624. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.109.032624>, Registrované v: WOS

ADCA735 SCARLINO, P. - KAWAKAMI, E. - STAÑO, Peter - SHAFIEI, M. - REICHL, C. - WEGSCHEIDER, W. - VANDERSYPEN, L.M.K. Spin-relaxation anisotropy in a GaAs quantum dot. In *Physical Review Letters*, 2014, vol. 113, no. 25, art. no. 256802. (2013: 7.728 - IF, Q1 - JCR, 5.674 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.113.256802>

Citácie:

1. [1.1] HSUEH, Yu-Ling - KEITH, Daniel - CHUNG, Yousun - GORMAN, Samuel K. - KRANZ, Ludwik - MONIR, Serajum - KEMBREY, Zachary - KEIZER, Joris G. - RAHMAN, Rajib - SIMMONS, Michelle Y. Engineering Spin-Orbit Interactions in Silicon Qubits at the Atomic-Scale. In *ADVANCED MATERIALS*, 2024, vol. 36, no. 26. ISSN 0935-9648. Dostupné na:

<https://doi.org/10.1002/adma.202312736>, Registrované v: WOS

2. [1.1] KRISHNAN, Radha - GAN, Beng Yee - HSUEH, Yu-Ling - HUQ, A. M. Saffat-Ee - KENNY, Jonathan - RAHMAN, Rajib - KOH, Teck Seng - SIMMONS, Michelle Y. - WEBER, Bent. Measurement of Enhanced Spin-Orbit Coupling Strength for Donor-Bound Electron Spins in Silicon. In *ADVANCED MATERIALS*, 2024, vol. 36, no. 49. ISSN 0935-9648. Dostupné na:

<https://doi.org/10.1002/adma.202405916>, Registrované v: WOS

3. [1.1] THAKUR, Tanmay - PEETERS, Francois M. - SZAFRAN, Bartłomiej. Electrical manipulation of the spins in phosphorene double quantum dots. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 18966. ISSN 2045-2322.

Dostupné na: <https://doi.org/10.1038/s41598-024-67955-1>, Registrované v: WOS

ADCA736 SCARLINO, P.* - UNGERER, J. H.* - VAN WOERKOM, D. J. - MANCINI, M. - STAÑO, Peter - MÜLLER, C. - LANDIG, A. J. - KOSKI, J. V. - REICHL, C. - WEGSCHEIDER, W. - IHN, T. - ENSSLIN, K. - WALLRAFF, A. In situ Tuning of the Electric-Dipole Strength of a Double-Dot Charge Qubit: Charge-Noise Protection and Ultrastrong Coupling. In *Physical Review X*, 2022, vol. 12, no. 3, art. no. 031004. (2021: 14.417 - IF, Q1 - JCR, 6.735 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2160-3308. Dostupné na:

<https://doi.org/10.1103/PhysRevX.12.031004>

Citácie:

1. [1.1] GIANNELLI, L. - PALADINO, E. - GRAJCAR, M. - PARAOANU, G. S. - FALCI, G. Detecting virtual photons in ultrastrongly coupled superconducting quantum circuits. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 1, art. no. 013008. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.013008>,

Registrované v: WOS

2. [1.1] HALDAR, Subhomoy - BARKER, David - HAVIR, Harald - RANNI, Antti - LEHMANN, Sebastian - DICK, Kimberly A. - MAISI, Ville F. Continuous Microwave Photon Counting by Semiconductor-Superconductor Hybrids. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 21, art. no. 217001. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.217001>, Registrované v: WOS

3. [1.1] KAM, Chon-Fai - HU, Xuedong. Submicrosecond high-fidelity dispersive readout of a spin qubit with squeezed photons. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 4, art. no. L040402. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.109.L040402>, Registrované v: WOS

4. [1.1] KANDEL, Yadav P. - MAGAR, Suraj Thapa - NICHOL, John M. - IYER,

- Arjun - RENNINGER, William H. High-impedance surface-acoustic-wave resonators. In *PHYSICAL REVIEW APPLIED*, 2024, vol. 21, no. 1, art. no. 014010. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.21.014010>, Registrované v: WOS
5. [1.1] KANG, Yuan - LI, Zong-Hu - KONG, Zhen-Zhen - LI, Fang-Ge - HAO, Tian-Yue - WEI, Ze-Cheng - DENG, Song-Yan - WANG, Bao-Chuan - LI, Hai-Ou - WANG, Gui-Lei - GUO, Guang-Can - CAO, Gang - GUO, Guo-Ping. Coupling of a hole double quantum dot in planar germanium to a microwave cavity. In *PHYSICAL REVIEW APPLIED*, 2024, vol. 22, no. 2, art. no. 024054. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.22.024054>, Registrované v: WOS
6. [1.1] KAYATZ, Florian - MIELKE, Jonas - BURKARD, Guido. Resonator-mediated quantum gate between distant charge qubits. In *QUANTUM SCIENCE AND TECHNOLOGY*, 2024, vol. 9, no. 4, art. no. 045048. ISSN 2058-9565. Dostupné na: <https://doi.org/10.1088/2058-9565/ad7756>, Registrované v: WOS
7. [1.1] KOZIN, Valerii K. - MISEREV, Dmitry - LOSS, Daniel - KLINOVAJA, Jelena. Quantum phase transitions and cat states in cavity-coupled quantum dots. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 3, art. no. 033188. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.033188>, Registrované v: WOS
8. [1.1] KUROYAMA, Kazuyuki - KWOEN, Jinkwan - ARAKAWA, Yasuhiko - HIRAKAWA, Kazuhiko. Coherent Interaction of a Few-Electron Quantum Dot with a Terahertz Optical Resonator. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 6, art. no. 066901. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.066901>, Registrované v: WOS
9. [1.1] LIN, Chaojing - FUTAMATA, Ko - AKIHO, Takafumi - MURAKI, Koji - FUJISAWA, Toshimasa. Resonant Plasmon-Assisted Tunneling in a Double Quantum Dot Coupled to a Quantum Hall Plasmon Resonator. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 3, art. no. 036301. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.036301>, Registrované v: WOS
10. [1.1] PERI, L. - OAKES, G. A. - COCHRANE, L. - FORD, C. J. B. - GONZALEZ-ZALBA, M. F. Beyond-adiabatic Quantum Admittance of a Semiconductor Quantum Dot at High Frequencies: Rethinking Reflectometry as Polaron Dynamics. In *QUANTUM*, 2024, vol. 8, no., art. no. 1294. ISSN 2521-327X., Registrované v: WOS
11. [1.1] QIN, Wei - KOCKUM, Anton Frisk - MUNOZ, Carlos Sanchez - MIRANOWICZ, Adam - NORI, Franco. Quantum amplification and simulation of strong and ultrastrong coupling of light and matter. In *PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS*, 2024, vol. 1078, no. ISSN 0370-1573. Dostupné na: <https://doi.org/10.1016/j.physrep.2024.05.003>, Registrované v: WOS
12. [1.1] RANNI, Antti - HALDAR, Subhomoy - HAVIR, Harald - LEHMANN, Sebastian - SCARLINO, Pasquale - BAUMGARTNER, Andreas - SCHONENBERGER, Christian - THELANDER, Claes - DICK, Kimberly A. - POTTS, Patrick P. - MAISI, Ville F. Decoherence in a crystal-phase defined double quantum dot charge qubit strongly coupled to a high-impedance resonator. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 4, art. no. 043134. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.043134>, Registrované v: WOS
13. [1.1] STEVENS, Callum R. - HERMANN, Andreas - HUXLEY, Andrew - WERMEILLE, Didier. Incommensurate charge density wave order in U2Ti. In

PHYSICAL REVIEW B, 2024, vol. 109, no. 12, art. no. 125116. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.125116>, Registrované v: WOS

14. [1.1] UNGERER, J. H. - PALLY, A. - KONONOV, A. - LEHMANN, S. - RIDDERBOS, J. - POTTS, P. P. - THELANDER, C. - DICK, K. A. - MAISI, V. F. - SCARLINO, P. - BAUMGARTNER, A. - SCHOENENBERGER, C. Strong coupling between a microwave photon and a singlet-triplet qubit. In NATURE COMMUNICATIONS, 2024, vol. 15, no. 1, art. no. 1068. Dostupné na: <https://doi.org/10.1038/s41467-024-45235-w>, Registrované v: WOS

15. [1.1] VALENTI, Francesco - KANAGIN, Andrew N. - ANGERER, Andreas - BUIMAGA-IARINCA, Luiza - MORARI, Cristian - SCHMIEDMAYER, Joerg - POP, Ioan M. Hydrogen crystals reduce dissipation in superconducting resonators. In PHYSICAL REVIEW B, 2024, vol. 109, no. 5, art. no. 054503. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.054503>, Registrované v: WOS

16. [1.1] YU, Baiyi - CHU, Yaoming - BETZHOLZ, Ralf - ZHANG, Shaoliang - CAI, Jianming. Engineering Artificial Atomic Systems of Giant Electric Dipole Moment. In PHYSICAL REVIEW LETTERS, 2024, vol. 132, no. 7, art. no. 073202. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.073202>, Registrované v: WOS

17. [1.2] BOROSS, Péter - PÁLYI, András. Braiding-based quantum control of a Majorana qubit built from quantum dots. In Physical Review B, 2024-03-15, 109, 12, pp. ISSN 24699950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.125410>, Registrované v: SCOPUS

18. [1.2] GAO, Zhuoqing - AMARATUNGA, Gehan - WANG, Xiaozhi - MA, Boyang. Advances in Electron-Based Qubits: A Review. In Journal of Physics Conference Series, 2024-01-01, 2809, 1, pp. ISSN 17426588. Dostupné na: <https://doi.org/10.1088/1742-6596/2809/1/012028>, Registrované v: SCOPUS

19. [1.2] PEREIRA, Luís Fernando C. - DE LIRA, Francisco A.G. - SILVA, Edilberto O. Quantum rings: Electronic properties. In Encyclopedia of Condensed Matter Physics, 2024-01-01, pp. V3-425. ISBN [9780323914086, 9780323908009]. Dostupné na: <https://doi.org/10.1016/B978-0-323-90800-9.00199-2>, Registrované v: SCOPUS

ADCA737 SEDLÁK, Michal - ZIMAN, Mário. Unambiguous comparison of unitary channels. In Physical Review A, 2009, vol. 79, no. 1, art. no. 012303. Dostupné na: <https://doi.org/10.1103/PhysRevA.79.012303>

Citácie:

1. [1.1] KRAWIEC, Aleksandra - PAWELA, Lukasz - PUCHALA, Zbigniew. Discrimination and certification of unknown quantum measurements. In QUANTUM, 2024, vol. 8, no., art. no. 1269. ISSN 2521-327X., Registrované v: WOS

ADCA738 SEDLÁK, Michal - ZIMAN, Mário. Optimal single-shot strategies for discrimination of quantum measurements. In Physical Review A, 2014, vol. 90, no. 5, art. no. 052312. (2013: 2.991 - IF, Q1 - JCR, 2.317 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.90.052312>

Citácie:

1. [1.1] KRAWIEC, Aleksandra - PAWELA, Lukasz - PUCHALA, Zbigniew. Discrimination and certification of unknown quantum measurements. In QUANTUM, 2024, vol. 8, no., art. no. 1269. ISSN 2521-327X., Registrované v: WOS

2. [1.1] ZHU, Chengkai - MO, Yin - CHEN, Yu-Ao - WANG, Xin. Reversing

Unknown Quantum Processes via Virtual Combs for Channels with Limited Information. In PHYSICAL REVIEW LETTERS, 2024, vol. 133, no. 3, art. no. 030801. ISSN 0031-9007. Dostupné na:

<https://doi.org/10.1103/PhysRevLett.133.030801>, Registrované v: WOS

ADCA739 SEDLÁK, Michal - REITZNER, Daniel - CHIRIBELLA, G. - ZIMAN, Mário. Incompatible measurements on quantum causal networks. In Physical Review A, 2016, vol. 93, no. 5, art. no. 052323. (2015: 2.765 - IF, Q1 - JCR, 1.747 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.93.052323>

Citácie:

1. [1.1] RAGINI, Nidhin Sudarsanan - SAZIM, Sk. Higher-order incompatibility improves distinguishability of causal quantum networks. In NEW JOURNAL OF PHYSICS, 2024, vol. 26, no. 12, art. no. 123003. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad93f6>, Registrované v: WOS

ADCA740 SEDLÁK, Michal** - BISIO, Alessandro - ZIMAN, Mário. Optimal Probabilistic Storage and Retrieval of Unitary Channels. In Physical Review Letters, 2019, vol. 122, no. 17, art. no. 170502. (2018: 9.227 - IF, Q1 - JCR, 3.571 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.122.170502>

Citácie:

1. [1.1] ANTESBERGER, Michael - QUINTINO, Marco Tulio - WALTHER, Philip - ROZEMA, Lee A. Higher-Order Process Matrix Tomography of a Passively-Stable Quantum Switch. In PRX QUANTUM, 2024, vol. 5, no. 1, art. no. 010325. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.010325>, Registrované v: WOS

2. [1.1] APADULA, Luca - BISIO, Alessandro - PERINOTTI, Paolo. No-signalling constrains quantum computation with indefinite causal structure. In QUANTUM, 2024, vol. 8, no., art. no. 1241. ISSN 2521-327X., Registrované v: WOS

3. [1.1] COLLINS, Daniel. Teleportation of Post-Selected Quantum States. In QUANTUM, 2024, vol. 8, no., art. no. 1280. ISSN 2521-327X., Registrované v: WOS

4. [1.1] GAVOROVA, Zuzana - SEIDEL, Matan - TOUATI, Yonathan. Topological obstructions to quantum computation with unitary oracles. In PHYSICAL REVIEW A, 2024, vol. 109, no. 3, art. no. 032625. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.032625>, Registrované v: WOS

5. [1.1] GHOSH, Soham - GALETSKY, Vladlen - FARRE, Pol Julia - DEPPE, Christian - FERRARA, Roberto - BOCHE, Holger. Existential Unforgeability in Quantum Authentication From Quantum Physical Unclonable Functions Based on Random von Neumann Measurement. In 2024 IEEE INTERNATIONAL SYMPOSIUM ON INFORMATION THEORY, ISIT 2024 : IEEE International Symposium on Information Theory (ISIT), 2024, vol., no., pp. 3112-3117. ISSN 2157-8095. Dostupné na: <https://doi.org/10.1109/ISIT57864.2024.10619475>, Registrované v: WOS

6. [1.1] GHOSH, Soham - GALETSKY, Vladlen - FARRE, Pol Julia - DEPPE, Christian - FERRARA, Roberto - BOCHE, Holger. Existential unforgeability in quantum authentication from quantum physical unclonable functions based on random von Neumann measurement. In PHYSICAL REVIEW RESEARCH, 2024, vol. 6, no. 4, art. no. 043306. Dostupné na:

<https://doi.org/10.1103/PhysRevResearch.6.043306>, Registrované v: WOS

7. [1.1] KIM, Ha Eum - JEONG, Kabgyun. Asymptotic teleportation scheme bridging between standard and port-based teleportation. In QUANTUM

SCIENCE AND TECHNOLOGY, 2024, vol. 9, no. 4, art. no. 045014. ISSN 2058-9565. Dostupné na: <https://doi.org/10.1088/2058-9565/ad617e>, Registrované v: WOS

8. [1.1] KIM, Ha Eum - JEONG, Kabgyun. Port-based entanglement teleportation via noisy resource states. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 3, art. no. 035105. ISSN 0031-8949. Dostupné na:

<https://doi.org/10.1088/1402-4896/ad22c6>, Registrované v: WOS

9. [1.1] MANSUROGLU, Refik - ADIL, Arsalan - HARTMANN, Michael J. - HOLMES, Zoe - SORNBORGER, Andrew T. Quantum Tensor-Product Decomposition from Choi-State Tomography. In *PRX QUANTUM*, 2024, vol. 5, no. 3, art. no. 030306. Dostupné na:

<https://doi.org/10.1103/PRXQuantum.5.030306>, Registrované v: WOS

10. [1.1] MOZRZYMAS, Marek - HORODECKI, Michal - STUDZINSKI, Michal. From port-based teleportation to Frobenius reciprocity theorem: partially reduced irreducible representations and their applications. In *LETTERS IN MATHEMATICAL PHYSICS*, 2024, vol. 114, no. 2, art. no. 56. ISSN 0377-9017. Dostupné na: <https://doi.org/10.1007/s11005-024-01800-4>, Registrované v: WOS

11. [1.1] MUGURUZA, Garazi - SPEELMAN, Florian. Port-Based State Preparation and Applications. In *QUANTUM*, 2024, vol. 8, no., art. no. 1573. ISSN 2521-327X., Registrované v: WOS

12. [1.1] WANG, Ben - ZHENG, Kaimin - XIE, Qian - ZHANG, Aonan - XU, Liang - ZHANG, Lijian. Achieving the Multiparameter Quantum Cramér-Rao Bound with Antiunitary Symmetry. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 21, art. no. 210801. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.210801>, Registrované v: WOS

13. [1.1] ZHU, Chengkai - MO, Yin - CHEN, Yu-Ao - WANG, Xin. Reversing Unknown Quantum Processes via Virtual Combs for Channels with Limited Information. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 133, no. 3, art. no. 030801. ISSN 0031-9007. Dostupné na:

<https://doi.org/10.1103/PhysRevLett.133.030801>, Registrované v: WOS

ADCA741 SELIVERSTOV, M.D. - COCOLIOS, T.E. - DEXTERS, W. - ANDREYEV, A.N. - ANTALIC, S. - BARZAKH, A.E. - BASTIN, B. - BUSCHER, J. - DARBY, I.G. - FEDOROV, D.V. - FEDOSEYEV, V.N. - FLANAGAN, K.T. - FRANCHOO, S. - FRITZSCHE, S. - HUBER, G. - HUYSE, M. - KEUPERS, M. - KOSTER, U. - KUDRYAVTSEV, Yu. - MARSH, B.A. - MOLKANOV, P.L. - PAGE, R.D. - SJODIN, A.M. - STEFAN, I. - VAN DE WALLE, J. - VAN DUPPEN, P. - VENHART, Martin - ZEMLYANOY, S.G. Charge radii of odd-A Po191-211 isotopes. In *Physics Letters B*, 2013, vol. 719, no. 4-5, p. 362-366. (2012: 4.569 - IF, Q1 - JCR, 3.353 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2013.01.043>

Citácie:

1. [1.1] BASUNIA, M. S. Nuclear Data Sheets for A=191. In *NUCLEAR DATA SHEETS*, 2024, vol. 195, no., pp. 368-717. ISSN 0090-3752. Dostupné na: <https://doi.org/10.1016/j.nds.2024.04.002>, Registrované v: WOS

2. [1.1] KOSZORUS, Agota - CHEAL, Bradley. Laser spectroscopy of isomers. In *EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS*, 2024, vol. 233, no. 5, pp. 1133-1149. ISSN 1951-6355. Dostupné na: <https://doi.org/10.1140/epjs/s11734-024-01130-5>, Registrované v: WOS

3. [1.1] LEONI, S. - FORNAL, B. - BRACCO, A. - TSUNODA, Y. - OTSUKA, T. Multifaceted character of shape coexistence phenomena in atomic nuclei. In *PROGRESS IN PARTICLE AND NUCLEAR PHYSICS*, 2024, vol. 139, no., art.

no. 104119. ISSN 0146-6410. Dostupné na:

<https://doi.org/10.1016/j.pnpnp.2024.104119>, Registrované v: WOS

4. [1.1] MUN, Myeong-Hwan - HA, Eunja - CHOI, Yong-Beom - CHEOUN, Myung-Ki. Nuclear shape evolution of neutron-deficient Au and kink structure of Pb isotopes. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 2, art. no. 024310.

ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.024310>,

Registrované v: WOS

5. [1.1] WANG, J. G. - GAN, Z. G. - ZHANG, Z. Y. - HUANG, M. H. - MA, L. - ZHANG, M. M. - YANG, H. B. - YANG, C. L. - QIANG, Y. H. - HUANG, X. Y. - ZHAO, Z. - XU, S. Y. - LI, Z. C. - CHEN, L. X. - SUN, L. C. - ZHOU, H. - ZHANG, X. - WU, X. L. - TIAN, Y. L. - WANG, Y. S. - WANG, J. Y. - HUANG, W. X. - LIU, M. L. - LU, Z. W. - HE, Y. - REN, Z. Z. - ZHOU, S. G. - ZHOU, X. H. - XU, H. S. - UTYONKOV, V. K. - VOINOV, A. A. - TSYGANOV, Yu. S. - POLYAKOV, A. N. α -decay properties of new neutron-deficient isotope SUP203/SUPAc. In *PHYSICS LETTERS B*, 2024, vol. 850, no., art. no. 138503. ISSN 0370-2693. Dostupné na: <https://doi.org/10.1016/j.physletb.2024.138503>, Registrované v: WOS

ADCA742 SELIVERSTOV, M.D. - COCOLIOS, T.E. - DEXTERS, W. - ANDREYEV, A.E. - ANTALIC, S. - BARZAKH, A.E. - BASTIN, B. - BUSCHER, J. - DARBY, I.G. - FEDOROV, D.V. - FEDOSSEEV, V.N. - FLANAGAN, K.T. - FRANCHOO, S. - HUBER, G. - HUYSE, M. - KEUPERS, M. - KOSTER, U. - KUDRYAVTSEV, Yu. - MARSH, B.A. - MOLKANOV, P.L. - PAGE, R.D. - SJODIN, A.M. - STEFAN, I. - VAN DUPPEN, P. - VENHART, Martin - ZEMLYANOY, S.G. Electromagnetic moments of odd-A 193-203,211Po isotopes. In *Physical Review C*, 2014, vol. 89, no. 3, art. no. 034323. (2013: 3.881 - IF, Q1 - JCR, 2.584 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.89.034323>

Citácie:

1. [1.1] KOSZORUS, Agota - CHEAL, Bradley. Laser spectroscopy of isomers. In *EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS*, 2024, vol. 233, no. 5, pp. 1133-1149. ISSN 1951-6355. Dostupné na: <https://doi.org/10.1140/epjs/s11734-024-01130-5>, Registrované v: WOS

ADCA743 SEN DE, Aditi - SEN, Ujjwal - BRUKNER, Caslav - BUŽEK, Vladimír - ZUKOWSKI, Marek. Entanglement swapping of noisy states: A kind of superadditivity in nonclassicality. In *Physical Review A*, 2005, vol. 72, no. 4, art. no. 042310. Dostupné na: <https://doi.org/10.1103/PhysRevA.72.042310>

Citácie:

1. [1.1] DESIGNOLLE, Sebastien - VERTESI, Tamas - POKUTTA, Sebastian. Symmetric multipartite Bell inequalities via Frank-Wolfe algorithms. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 2, art. no. 022205. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.022205>, Registrované v: WOS

2. [1.1] KUMARI, Asmita. Nonlocality activation using local filtering operations based on CGLMP inequality. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 8, art. no. 085114. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad5fc2>, Registrované v: WOS

3. [1.1] TAVAKOLI, Armin - POZAS-KERSTJENS, Alejandro - BROWN, Peter - ARAUJO, Mateus. Semidefinite programming relaxations for quantum correlations. In *REVIEWS OF MODERN PHYSICS*, 2024, vol. 96, no. 4, art. no. 045006. ISSN 0034-6861. Dostupné na: <https://doi.org/10.1103/RevModPhys.96.045006>, Registrované v: WOS

4. [1.1] VILLEGAS-AGUILAR, Luis - POLINO, Emanuele - GHAFARI, Farzad - QUINTINO, Marco Tulio - LAVERICK, Kiarn T. - BERKMAN, Ian R. - ROGGE,

Sven - SHALM, Lynden K. - TISCHLER, Nora - CAVALCANTI, Eric G. - SLUSSARENKO, Sergei - PRYDE, Geoff J. Nonlocality activation in a photonic quantum network. In *NATURE COMMUNICATIONS*, 2024, vol. 15, no. 1, art. no. 3112. Dostupné na: <https://doi.org/10.1038/s41467-024-47354-w>, Registrované v: WOS

ADCA744 SERINA, M. - GENZOR, Jozef - LEE, Y. - GENDIAR, Andrej. Free-energy analysis of spin models on hyperbolic lattice geometries. In *Physical Review E*, 2016, vol. 93, no. 4, art. no. 042123. (2015: 2.252 - IF, Q1 - JCR, 1.183 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.93.042123>

Citácie:

1. [1.1] LUKIN, I. - SOTNIKOV, A. G. Corner transfer matrix renormalization group approach in the zoo of Archimedean lattices. In *PHYSICAL REVIEW E*, 2024, vol. 109, no. 4, art. no. 045305. ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.109.045305>, Registrované v: WOS
2. [1.1] OKUNISHI, Kouichi - NISHINO, Tomotoshi. Holographic Analysis of Boundary Correlation Functions for the Hyperbolic-Lattice Ising Model. In *PROGRESS OF THEORETICAL AND EXPERIMENTAL PHYSICS*, 2024, vol. 2024, no. 9, art. no. 093A02. ISSN 2050-3911. Dostupné na: <https://doi.org/10.1093/ptep/ptae137>, Registrované v: WOS
3. [1.2] OKUNISHI, Kouichi - TAKAYANAGI, Tadashi. Statistical mechanics approach to the holographic renormalization group: Bethe lattice Ising model and p-adic AdS/CFT. In *Progress of Theoretical and Experimental Physics*, 2024-01-01, 2024, 1, pp. Dostupné na: <https://doi.org/10.1093/ptep/ptad156>, Registrované v: SCOPUS

ADCA745 SHAHRI, Yasin - HADIPOUR, Maryam - HADDADI, Saeed - DOLATKHAH, Hazhir - HASELI, Soroush. Quantum speed limit of Jaynes-Cummings model with detuning for arbitrary initial states. In *Physics Letters A. General Atomic and Solid State Physics*, 2023, vol. 470, no. 12, art. no. 128783. (2022: 2.6 - IF, Q3 - JCR, 0.523 - SJR, Q2 - SJR). ISSN 0375-9601. Dostupné na: <https://doi.org/10.1016/j.physleta.2023.128783>

Citácie:

1. [1.1] XIE, Yu-Xia - SUN, Yu-Hang. Preserving steered coherence in bosonic reservoirs via auxiliary qubits and frequency detuning. In *PHYSICS LETTERS A*, 2024, vol. 525, no., art. no. 129851. ISSN 0375-9601. Dostupné na: <https://doi.org/10.1016/j.physleta.2024.129851>, Registrované v: WOS

ADCA746 SHAJI, Ashin - VÉGSÖ, Karol - SOJKOVÁ, Michaela - HULMAN, Martin - NÁDAŽDY, Peter - HALAHOVETS, Yuriy - PRIBUSOVÁ SLUŠNÁ, Lenka - VOJTEKOVÁ, Tatiana - HRDÁ, Jana - JERGEL, Matej - MAJKOVÁ, Eva - WIESMANN, J. - ŠIFFALOVIČ, Peter**. Stepwise sulfurization of MoO₃ to MoS₂ thin films studied by real-time X-ray scattering. In *Applied Surface Science*, 2022, vol. 606, art. no. 154772. (2021: 7.392 - IF, Q1 - JCR, 1.147 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, CCC). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2022.154772>

Citácie:

1. [1.1] LIU, X.N. - LE, K. - YANG, W.J. - LIU, Y.Z. - LUO, Y. - ZHENG, X.W. - CHEN, H. - XU, S.S. - LIU, W.M. Tailoring the crystallinity and phase composition of MoS₂ nanosheets for better lubrication performance. In *APPLIED SURFACE SCIENCE*. ISSN 0169-4332, NOV 12 2024, vol. 673. Dostupné na: <https://doi.org/10.1016/j.apsusc.2024.160856>, Registrované v: WOS
2. [1.1] MA, X.F. - ZHANG, X.T. - GAO, M.J. - WANG, Y. - LI, G. Construction of a MoO_x/MoS₂ Heterojunction via the Surface Sulfurization of the Oxide and Its

Photocurrent-Switching Characteristics in the Range of the Broadband Light Spectrum. In MATERIALS. NOV 2024, vol. 17, no. 22. Dostupné na: <https://doi.org/10.3390/ma17225507>, Registrované v: WOS

- ADCA747 SHAJI, Ashin - VÉGSÖ, Karol - SOJKOVÁ, Michaela - HULMAN, Martin - NÁDAŽDY, Peter - HUTÁR, Peter - PRIBUSOVÁ SLUŠNÁ, Lenka - HRDÁ, Jana - BODIK, Michal - HODAS, Martin - BERNSTORFF, S. - JERGEL, Matej - MAJKOVÁ, Eva - SCHREIBER, F. - ŠIFFALOVÍČ, Peter**. Orientation of few-layer MoS₂ films: in-situ x-ray scattering study during sulfurization. In Journal of Physical Chemistry C, 2021, vol. 125, no. 17, p. 9461-9468. (2020: 4.126 - IF, Q2 - JCR, 1.401 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.1c01716>

Citácie:

1. [1.1] LEI, Hao - WEI, Wei - GONG, Zhongmiao - LI, Hao - CUI, Yi. Modulating the Growth of Epitaxial MoS₂ on Au(111) Surfaces via an Ultra-High-Vacuum-Interconnected Apparatus. In ACS APPLIED NANO MATERIALS, 2024, vol. 7, no. 4, pp. 3931-3938. Dostupné na:

<https://doi.org/10.1021/acsanm.3c05548>, Registrované v: WOS

- ADCA748 SHAJI, Ashin - MICETIC, M. - HALAHOVETS, Yuriy - NÁDAŽDY, Peter - MAŤKO, Igor - JERGEL, Matej - MAJKOVÁ, Eva - ŠIFFALOVÍČ, Peter**. Real-time tracking of the self-assembled growth of a 3D Ge quantum dot lattice in an alumina matrix. In Journal of Applied Crystallography, 2020, vol. 53, p. 1029-1038. (2019: 2.995 - IF, Q2 - JCR, 1.525 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0021-8898. Dostupné na:

<https://doi.org/10.1107/S1600576720007815>

Citácie:

1. [1.1] FANG TONG - WANG CHENGLONG - YU HONG. Measurement of Two-Dimensional Orthogonal Gratings Using Grazing-Incidence Small-Angle X-Ray Scattering. In ACTA OPTICA SINICA, 2024, vol. 44, no. 11, art. no. 1134001.

ISSN 0253-2239. Dostupné na: <https://doi.org/10.3788/AOS240719>, Registrované v: WOS

- ADCA749 SHARMA, Bhawna - THAKUR, Sourbh** - MAMB, Gcina - PRATEEK - GUPTA, Raju Kumar - GUPTA, Vijai Kumar - THAKUR, Vijay Kumar**. Titania modified gum tragacanth based hydrogel nanocomposite for water remediation. In Journal of Environmental Chemical Engineering, 2021, vol. 9, no. 1, art. no. 104608. (2020: 5.909 - IF, Q1 - JCR, 0.965 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2213-3437. Dostupné na:

<https://doi.org/10.1016/j.jece.2020.104608>

Citácie:

1. [1.1] ABDULLAH, Nurul Nabila Aini - KAMARI, Azlan - WONG, Siew Tin Susana - YUSOF, Norjan - OTHMAN, Hidayatulfathi - HUSSEIN, Mohd Zobir - HARGREAVES, Justin S. J. COTTON AND POLYESTER TREATED WITH TRAGACANTH GUM LOADED WITH CLOVE ESSENTIAL OIL

NANOEMULSION FOR MOSQUITO REPELLENT. In JURNAL TEKNOLOGI-SCIENCES & ENGINEERING, 2024, vol. 86, no. 3, pp. 91-99. ISSN 0127-9696.

Dostupné na: <https://doi.org/10.11113/jurnalteknologi.v86.19862>, Registrované v: WOS

2. [1.1] BRITO DOS SANTOS, Fernanda - PEREZ, Isadora Dias - MCMICHAEL, Philip Spencer - VASCONCELOS FREGOLENTE, Leonardo - MACIEL, Maria Regina Wolf - TAM, Kam Chiu. Synthesis of a Novel Cellulose Nanofiber-Based Composite Hydrogel with Poly(methyl methacrylate-co-methacrylic Acid) for Effective Water Removal from Liquid Fuels. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, 2024, vol. 63, no. 5, pp. 2210-2222. ISSN 0888-5885.

- Dostupné na: <https://doi.org/10.1021/acs.iecr.3c02019>, Registrované v: WOS
3. [1.1] CHEN, Shang-yu - LI, Liang - FENG, Mai - HUANG, Ting - ZHANG, Nan - WANG, Yong. UV-activated superwetting ability of electrospun polysulfone/titanium dioxide membranes toward highly efficient methylene blue removal and oil/water separation. In JOURNAL OF MEMBRANE SCIENCE, 2024, vol. 695, no., art. no. 122450. ISSN 0376-7388. Dostupné na: <https://doi.org/10.1016/j.memsci.2024.122450>, Registrované v: WOS
4. [1.1] DHEYAB, Mohammed Ali - OLADZADABBASABADI, Nazila - AZIZ, Azlan Abdul - KHANIABADI, Pegah Moradi - AL-OUQAILI, Mushtak T. S. - JAMEEL, Mahmood S. - BRAIM, Farhank Saber - MEHRDEL, Baharak - GHASEMLOU, Mehran. Recent advances of plant-mediated metal nanoparticles: Synthesis, properties, and emerging applications for wastewater treatment. In JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, 2024, vol. 12, no. 2, art. no. 112345. ISSN 2213-2929. Dostupné na: <https://doi.org/10.1016/j.jece.2024.112345>, Registrované v: WOS
5. [1.1] ELAHI, Muhammad Saqib - TAJ, Muhammad Babar - ALMASOUDI, Afaf - BAAMER, Doaa F. - ALDAHIRI, Reema H. - ALDOSARI, Eman - ALI, Omar Makram - AROOB, Sadia - ALSHATER, Heba. Biogenic Synthesis of Cr-Doped NiO/Clay Composite for Improved Dye Removal and CO₂ Capture Studies. In CHEMISTRYSELECT, 2024, vol. 9, no. 38, art. no. e202402938. ISSN 2365-6549. Dostupné na: <https://doi.org/10.1002/slct.202402938>, Registrované v: WOS
6. [1.1] FAROOQ, Kibrya - KUMAR, Vijay - SHARMA, Vishal - BHAGAT, Madhulika - KUMAR, Vaneet - SHARMA, Kashma. Synthesis, optimization, and multifunctional evaluation of amla-based novel biodegradable hydrogel. In POLYMER BULLETIN, 2024, vol. 81, no. 12, pp. 10681-10705. ISSN 0170-0839. Dostupné na: <https://doi.org/10.1007/s00289-024-05216-x>, Registrované v: WOS
7. [1.1] NAIR, Abhigith - KUMAWAT, Yogesh Kumar - CHOUDHARY, Sonal - NATH, Jyotendra - SHARMA, Kashma - RASOOL, Tanveer - SHARMA, Vishal - KUMAR, Vijay. Malachite green dye adsorption from wastewater using pine gum-based hydrogel: Kinetic and thermodynamic studies. In JOURNAL OF MOLECULAR STRUCTURE, 2024, vol. 1295, no., art. no. 136671. ISSN 0022-2860. Dostupné na: <https://doi.org/10.1016/j.molstruc.2023.136671>, Registrované v: WOS
8. [1.1] NYAKAIRU, George William Atwoki - SHEHU, Zaccheus. A review of Pharmaceuticals removal from water resources using magnetic iron-based nanomaterials. In NANOFABRICATION, 2024, vol. 9, no., art. no. 1797. ISSN 2299-680X. Dostupné na: <https://doi.org/10.37819/nanofab.009.1797>, Registrované v: WOS
9. [1.1] PIRYAEI, Marzieh - AZIMI, Shabnam. Preparation and evaluation of smart food packaging films with anthocyanin Sardasht black grape based on Astragalus gummifer and chitosan nanoparticles. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, 2024, vol. 254, no., art. no. 127974. ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2023.127974>, Registrované v: WOS
10. [1.1] ROY, Saptarshi - MISHRA, Soumya Ranjan - GADORE, Vishal - GUHA, Ankur Kanti - AHMARUZZAMAN, Md. Anchoring Ni(II) bisacetylacetonate complex into CuS immobilized MOF for enhanced removal of tinidazole and metronidazole. In NPJ CLEAN WATER, 2024, vol. 7, no. 1, art. no. 83. ISSN 2059-7037. Dostupné na: <https://doi.org/10.1038/s41545-024-00375-w>, Registrované v: WOS
11. [1.1] TANWAR, Meenakshi - GUPTA, Rajinder K. - RANI, Archana. Natural gums and their derivatives based hydrogels: in biomedical, environment,

agriculture, and food industry. In *CRITICAL REVIEWS IN BIOTECHNOLOGY*, 2024, vol. 44, no. 2, pp. 275-301. ISSN 0738-8551. Dostupné na: <https://doi.org/10.1080/07388551.2022.2157702>, Registrované v: WOS

12. [1.2] ABD, Maryam I. - RADIA, Nadher D. Removal of Crystal Violet Dye from Aqueous Solutions Using a Xanthan Gum-Based Hydrogel Nanocomposite with TiO₂ Nanoparticles as an Eco-Friendly Green Surface. In *Asian Journal of Green Chemistry*, 2024-07-01, 8, 4, pp. 497-511. ISSN 25885839. Dostupné na: <https://doi.org/10.48309/ajgc.2024.462394.1515>, Registrované v: SCOPUS

13. [1.2] HARSHAN, Krishnan - RAJAN, A. Prashanth - KINGSLEY, Danie - SHEIKH, Rahul Amin - AASHMI, Jemima - RAJAN, Anand Prem. Plant-based biopolymers for wastewater pollutants mitigation. In *Physical Sciences Reviews*, 2024-05-01, 9, 5, pp. 1973-1989. Dostupné na: <https://doi.org/10.1515/psr-2022-0220>, Registrované v: SCOPUS

14. [1.2] PATHANIA, Apoorva - PATHANIA, Anu Radha. Animal Wastes: Fundamentals, Classification, Properties, and Applications. In *Biomass Wastes for Sustainable Industrial Applications A Waste to Wealth Approach*, 2024-01-01, pp. 140-183. ISBN [9781032739441, 9781040149478]. Dostupné na: <https://doi.org/10.1201/9781003466833-7>, Registrované v: SCOPUS

15. [1.2] TRIPATHI, Suman Lata - ARORA, Krishan - LWENDI, Celestine. A Review of Effective Biomass, Chemical, Recycling and Storage Processes for Electrical Energy Generations. In *Carbon Based Nanomaterials for Green Applications*, 2024-01-01, pp. 331-353. ISBN [9781394243396, 9781394243426]. Dostupné na: <https://doi.org/10.1002/9781394243426.ch13>, Registrované v: SCOPUS

ADCA750 SHARMA, Bhawna - THAKUR, Sourbh** - TRACHE, Djallal - NEZHAD, Hamed Yazdani - THAKUR, Vijay Kumar**. Microwave-Assisted Rapid Synthesis of Reduced Graphene Oxide-Based Gum Tragacanth Hydrogel Nanocomposite for Heavy Metal Ions Adsorption. In *Nanomaterials-Basel*, 2020, vol. 10, no. 8, art. no. 1616. (2019: 4.324 - IF, Q2 - JCR, 0.858 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 2079-4991. Dostupné na: <https://doi.org/10.3390/nano10081616>

Citácie:

1. [1.1] BAYTAR, Orhan - EKINCI, Arzu - SAHIN, Omer - AKDAG, Abdurrahman. The Use of NiFe₂O₄ and CoFe₂O₄ Nanoparticles Produced by Green Synthesis as Electrode Material for Supercapacitors. In *CHEMISTRYSELECT*, 2024, vol. 9, no. 8, art. no. e202304491. ISSN 2365-6549. Dostupné na: <https://doi.org/10.1002/slct.202304491>, Registrované v: WOS
2. [1.1] DAVE, Pragnesh N. - CHOPDA, Lakha - KAMALIYA, Bhagvan P. Adsorption of metomorfin hydrochloride and sodium decofane by grafting of polyacrylic acid/grapheme oxide on the gum ghatti. In *JOURNAL OF CHEMICAL RESEARCH*, 2024, vol. 48, no. 6, art. no. 17475198241301598. ISSN 1747-5198. Dostupné na: <https://doi.org/10.1177/17475198241301598>, Registrované v: WOS
3. [1.1] ELAHI, Muhammad Saqib - TAJ, Muhammad Babar - ALMASOUDI, Afaf - BAAMER, Doaa F. - ALDAHIRI, Reema H. - ALDOSARI, Eman - ALI, Omar Makram - AROOB, Sadia - ALSHATER, Heba. Biogenic Synthesis of Cr-Doped NiO/Clay Composite for Improved Dye Removal and CO₂ Capture Studies. In *CHEMISTRYSELECT*, 2024, vol. 9, no. 38, art. no. e202402938. ISSN 2365-6549. Dostupné na: <https://doi.org/10.1002/slct.202402938>, Registrované v: WOS
4. [1.1] FAROOQ, Kibrya - KUMAR, Vijay - SHARMA, Vishal - BHAGAT, Madhulika - KUMAR, Vaneet - SHARMA, Kashma. Synthesis, optimization, and multifunctional evaluation of amla-based novel biodegradable hydrogel. In

POLYMER BULLETIN, 2024, vol. 81, no. 12, pp. 10681-10705. ISSN 0170-0839. Dostupné na: <https://doi.org/10.1007/s00289-024-05216-x>, Registrované v: WOS
5. [1.1] KUMARI, Pooja - KUMAR, Manish - KUMAR, Rajender - KAUSHAL, Deepika - CHAUHAN, Vinay - THAKUR, Sourab - SHANDILYA, Pooja - SHARMA, Prem P. Gum acacia based hydrogels and their composite for waste water treatment: A review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, 2024, vol. 262, no., art. no. 129914. ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2024.129914>, Registrované v: WOS

6. [1.1] LIU, Xue-Li - XIE, Zhi-Peng - ZHU, Chun-Feng. Preparation of Zirconium Phosphate/Carboxymethyl Cellulose Composite Hydrogel for CuSUP2+/SUP Removal. In JOURNAL OF POLYMERS AND THE ENVIRONMENT, 2024, vol. 32, no. 12, pp. 6773-6783. ISSN 1566-2543. Dostupné na: <https://doi.org/10.1007/s10924-024-03387-2>, Registrované v: WOS

7. [1.1] MORE, Aarti P. - CHAPEKAR, Shubham. Irradiation assisted synthesis of hydrogel: A Review. In POLYMER BULLETIN, 2024, vol. 81, no. 7, pp. 5839-5908. ISSN 0170-0839. Dostupné na: <https://doi.org/10.1007/s00289-023-05020-z>, Registrované v: WOS

8. [1.2] ABADY, Mariam M. - SHAWKY, Amal M. - SAKR, Fathi A. - MOHAMMED, Dina Mostafa - GODA, Emad S. Recent Advancements in Biosensors Using Biopolymers. In ACS Symposium Series, 2024-11-01, 1486, pp. 81-112. ISSN 00976156. Dostupné na: <https://doi.org/10.1021/bk-2024-1486.ch005>, Registrované v: SCOPUS

9. [1.2] DAVE, Pragnesh N. - MACWAN, Pradip M. Novel pH-sensitive gum ghatti-cl-poly(acrylic acid) composite hydrogel based on graphene oxide for metformin hydrochloride and sodium diclofenac combined drug-delivery systems. In Rsc Pharmaceutics, 2024-05-09, 1, 2, pp. 357-371. Dostupné na: <https://doi.org/10.1039/d3pm00072a>, Registrované v: SCOPUS

10. [1.2] MISHRA, Raghvendra K. - YADAV, Akshita - MISHRA, Vinayak - MISHRA, Satya N. - SINGH, Deepa S. - VERMA, Dakeshwar Kumar. Fundamental Theory of Electromagnetic Spectrum, Dielectric and Magnetic Properties, Molecular Rotation, and the Green Chemistry of Microwave Heating Equipment. In Green Chemical Synthesis with Microwaves and Ultrasound, 2024-01-01, pp. 21-67. ISBN [9783527352975, 9783527844494]. Dostupné na: <https://doi.org/10.1002/9783527844494.ch2>, Registrované v: SCOPUS

ADCA751 SHEPA, Ivan** - MÚDRA, Erika - VOJTKO, Marek - MILKOVIČ, Ondrej - DANKOVÁ, Zuzana - ANTAL, Vitaliy - HVIZDOŠOVÁ, Adriana, Annušová - MAJKOVÁ, Eva - DUSZA, Ján. Influence of the polymer precursor blend composition on the morphology of the electrospun oxide ceramic fibers. In Results in Physics, 2019, vol. 13, no. 10, 102243. (2018: 3.042 - IF, Q1 - JCR, 0.452 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2211-3797. Dostupné na: <https://doi.org/10.1016/j.rinp.2019.102243>

Citácie:

1. [1.1] TANG, S. - FAN, X.M. - JIA, Z.L. - LI, M.H. - YE, F. - XUE, J.M. Effect of annealing temperature on the microstructure, dielectric, and microwave absorption performance of precursor blends derived ZrSiOCN ceramics. In CERAMICS INTERNATIONAL. ISSN 0272-8842, JAN 1 2024, vol. 50, no. 1, B, p. 2211-2220. Dostupné na: <https://doi.org/10.1016/j.ceramint.2023.10.335>, Registrované v: WOS

ADCA752 SHI, Xingyuan** - NÁDAŽDY, Vojtech - PEREVEDENTSEV, Aleksandr - FROST, Jarvist M. - WANG, Xuhua - VON HAUFF, Elizabeth - MACKENZIE, Roderick C. I. - NELSON, Jenny**. Relating Chain Conformation to the Density of States and

Charge Transport in Conjugated Polymers: The Role of the beta-phase in Poly(9,9-dioctylfluorene). In *Physical Review X*, 2019, vol. 9, no. 2, art. no. 021038. (2018: 12.211 - IF, Q1 - JCR, 6.497 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2160-3308. Dostupné na: <https://doi.org/10.1103/PhysRevX.9.021038>

Citácie:

1. [1.1] GE, Zhendong - WANG, Lei - GU, Dawei - ZHANG, Tianyou. Carrier mobility in organic semiconductors with an exponential density of states under the framework of admittance spectroscopy. In *ORGANIC ELECTRONICS*, 2024, vol. 126, no., art. no. 106996. ISSN 1566-1199. Dostupné na:

<https://doi.org/10.1016/j.orgel.2024.106996>, Registrované v: WOS

2. [1.1] GONZALEZ, Benito - MASIP, Laia - LAZARO, Marc - VILLARINO, Ramon - GIRBAU, David - LAZARO, Antonio. A Compact DC Model for PEDOT-Based Organic Electrochemical Transistors (OECTs). In *IEEE TRANSACTIONS ON ELECTRON DEVICES*, 2024, vol. 71, no. 11, pp. 6983-6988. ISSN 0018-9383. Dostupné na: <https://doi.org/10.1109/TED.2024.3469170>, Registrované v: WOS

3. [1.1] LE CORRE, Vincent M. Space-Charge-Limited Current Measurements: A Problematic Technique for Metal Halide Perovskites. In *JOURNAL OF PHYSICAL CHEMISTRY LETTERS*, 2024, vol. 15, no. 39, pp. 10001-10008. ISSN 1948-7185. Dostupné na: <https://doi.org/10.1021/acs.jpclett.4c02379>, Registrované v: WOS

4. [1.1] LI YAO - WANG FENQIANG - WANG AILING - LAN JUN - LIU LIANGPENG - WU HUIZHOU - ZHANG PENGJIE. Progress in the Detection of Trap Density of States in Organic Thin Film Transistors. In *LASER & OPTOELECTRONICS PROGRESS*, 2024, vol. 61, no. 13, art. no. 1300005. ISSN 1006-4125. Dostupné na: <https://doi.org/10.3788/LOP232085>, Registrované v: WOS

5. [1.1] SEIFRID, Martin - KARKI, Akchheta - WAKIDI, Hiba - VEZIN, Herve - WELTON, Claire - BAZAN, Guillermo C. - CHMELKA, Bradley F. - NGUYEN, Thuc-Quyen - REDDY, G. N. Manjunatha. Importance of Short-Range Order in Governing Thin Film Morphology and Electronic Properties of Polymeric Organic Semiconductors. In *CHEMISTRY OF MATERIALS*, 2024, vol. 36, no. 3, pp. 1214-1227. ISSN 0897-4756. Dostupné na:

<https://doi.org/10.1021/acs.chemmater.3c01931>, Registrované v: WOS

6. [1.1] XU, Man - WEI, Chuanxin - ZHANG, Yunlong - CHEN, Jiefeng - LI, Hao - ZHANG, Jingrui - SUN, Lili - LIU, Bin - LIN, Jinyi - YU, Mengna - XIE, Linghai - HUANG, Wei. Coplanar Conformational Structure of π -Conjugated Polymers for Optoelectronic Applications. In *ADVANCED MATERIALS*, 2024, vol. 36, no. 1. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202301671>, Registrované v: WOS

7. [1.1] ZBIRI, Mohamed - GUILBERT, Anne A. Y. Dynamics of Polyalkylfluorene Conjugated Polymers: Insights from Neutron Spectroscopy and Molecular Dynamics Simulations. In *JOURNAL OF PHYSICAL CHEMISTRY B*, 2024, vol. 128, no. 25, pp. 6197-6206. ISSN 1520-6106. Dostupné na:

<https://doi.org/10.1021/acs.jpcc.4c01760>, Registrované v: WOS

ADCA753

SHUKLA, A.K. - DHAKA, R.S. - D'SOUZA, S.W. - SINGH, Sanjay - WU, D. - LOGRASSO, T.A. - KRAJČÍ, Marián - HAFNER, J. - HORN, K. - BARMAN, S.R. Quasiperiodic layers of free-electron metals studied using electron diffraction. In *Physical Review B*, 2009, vol. 79, no. 13, art. no. 134206. ISSN 1098-0121. Dostupné na: <https://doi.org/10.1103/PhysRevB.79.134206>

Citácie:

1. [1.1] SHARMA, Hem Raj - NUGENT, Peter John - COATES, Sam - MCGRATH, Ronan. Quasicrystalline Antimony Thin Films. In *ISRAEL JOURNAL OF CHEMISTRY*, 2024, vol. 64, no. 10-11. ISSN 0021-2148. Dostupné na: <https://doi.org/10.1002/ijch.202300135>, Registrované v: WOS

SCHAUER, F.** - NÁDAŽDY, Vojtech - GMUCOVÁ, Katarína. Electrochemical impedance spectroscopy for study of electronic structure in disordered organic semiconductors-Possibilities and limitations. In *Journal of Applied Physics*, 2018, vol. 123, no. 16, art. no. 161590. (2017: 2.176 - IF, Q2 - JCR, 0.739 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/1.5008830>

Citácie:

1. [1.1] ALAM, Shahidul - ALDOSARI, Haya - PETOUKHOFF, Christopher E. - VARY, Tomas - ALTHOBAITI, Wejdan - ALQURASHI, Maryam - TANG, Hua - KHAN, Jafar I. - NADAZDY, Vojtech - MUELLER-BUSCHBAUM, Peter - WELCH, Gregory C. - LAQUAI, Frederic. Thermally-Induced Degradation in PM6:Y6-Based Bulk Heterojunction Organic Solar Cells. In *ADVANCED FUNCTIONAL MATERIALS*, 2024, vol. 34, no. 6. ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202308076>, Registrované v: WOS

2. [1.1] ALAM, Shahidul - PETOUKHOFF, Christopher E. - JURADO, Jose P. - ALDOSARI, Haya - JIANG, Xinyu - VARY, Tomas - AL NASSER, Hamza - DAHMAN, Amr - ALTHOBAITI, Wejdan - LOPEZ, Sandra P. Gonzalez - ALSUFYANI, Wejdan - MUELLER-BUSCHBAUM, Peter - NADAZDY, Vojtech - HOPPE, Harald - LAQUAI, Frederic. Influence of thermal annealing on microstructure, energetic landscape and device performance of P3HT:PCBM-based organic solar cells. In *JOURNAL OF PHYSICS-ENERGY*, 2024, vol. 6, no. 2, art. no. 025013. ISSN 2515-7655. Dostupné na: <https://doi.org/10.1088/2515-7655/ad2498>, Registrované v: WOS

3. [1.1] GHOSH, R. - BARIK, A. - SAHOO, M. R. - TIWARY, Sweta - VISHWAKARMA, P. N. Extrinsic Effects on the Impedance Spectra of LaYFe₂O₆ In *JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE*, 2024, vol. 33, no. 11, pp. 5340-5347. ISSN 1059-9495. Dostupné na: <https://doi.org/10.1007/s11665-023-08840-2>, Registrované v: WOS

4. [1.1] HALLOCK, Claire D. - ROSE, Michael J. Electrochemical Impedance of Well-Passivated Semiconductors Reveals Bandgaps, Fermi Levels, and Interfacial Density of States. In *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*, 2024, vol. 146, no. 28, pp. 18989-18998. ISSN 0002-7863. Dostupné na: <https://doi.org/10.1021/jacs.4c02738>, Registrované v: WOS

5. [1.1] KASHANI, Somayeh - RECH, Jeromy James - LIU, Tuo - BAUSTERT, Kyle - GHAFFARI, Abbas - ANGUNAWELA, Indunil - XIONG, Yuan - DINKU, Abay - YOU, Wei - GRAHAM, Kenneth - ADE, Harald. Exciton Binding Energy in Organic Polymers: Experimental Considerations and Tuning Prospects. In *ADVANCED ENERGY MATERIALS*, 2024, vol. 14, no. 6. ISSN 1614-6832. Dostupné na: <https://doi.org/10.1002/aenm.202302837>, Registrované v: WOS

6. [1.1] LI YAO - WANG FENQIANG - WANG AILING - LAN JUN - LIU LIANGPENG - WU HUIZHOU - ZHANG PENGJIE. Progress in the Detection of Trap Density of States in Organic Thin Film Transistors. In *LASER & OPTOELECTRONICS PROGRESS*, 2024, vol. 61, no. 13, art. no. 1300005. ISSN 1006-4125. Dostupné na: <https://doi.org/10.3788/LOP232085>, Registrované v: WOS

7. [1.1] ROCABRUNO-VALDES, C. I. - UGALDE-SALDIVAR, Victor M. - VALENCIA-GARCIA, Karen - HERNANDEZ-GORDILLO, Agileo - RODIL, Sandra Elizabeth. Exploring the electronic structure of BiVO₄ thin films using

energy-resolved electrochemical impedance spectroscopy. In *MATERIALS LETTERS*, 2024, vol. 357, no., art. no. 135741. ISSN 0167-577X. Dostupné na: <https://doi.org/10.1016/j.matlet.2023.135741>, Registrované v: WOS

8. [1.1] TOKMOLDIN, Nurlan - DEIBEL, Carsten - NEHER, Dieter - SHOAEE, Safa. Contemporary Impedance Analyses of Archetypical PM6:Y6 Bulk-Heterojunction Blend. In *ADVANCED ENERGY MATERIALS*, 2024, vol. 14, no. 27. ISSN 1614-6832. Dostupné na: <https://doi.org/10.1002/aenm.202401130>, Registrované v: WOS

9. [1.1] YUSSUF, Sodiq Tolulope - ORANZIE, Marlon - COX, Meleskow - XIA, Ruidong - ADMASSIE, Shimelis - JANUARY, Jaymi Leigh - PENG, Xinwen - IWUOHA, Emmanuel Iheanyichukwu. Microwave-synthesized aluminum, gallium and indium-substituted stannite nanocrystal absorbers for solar cell applications. In *MATERIALS TODAY SUSTAINABILITY*, 2024, vol. 26, no., art. no. 100771. ISSN 2589-2347. Dostupné na: <https://doi.org/10.1016/j.mtsust.2024.100771>, Registrované v: WOS

ADCA755 SCHAUER, F. - NÁDAŽDY, Vojtech - GMUCOVÁ, Katarína - VÁRY, T. Electrochemically induced charge injection in disordered organic conductive polymers. In *Journal of Applied Physics*, 2018, vol. 124, no. 16, art. no. 165702. (2017: 2.176 - IF, Q2 - JCR, 0.739 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/1.5049133>

Citácie:

1. [1.1] KASHANI, Somayeh - RECH, Jeromy James - LIU, Tuo - BAUSTERT, Kyle - GHAFARI, Abbas - ANGUNAWELA, Indunil - XIONG, Yuan - DINKU, Abay - YOU, Wei - GRAHAM, Kenneth - ADE, Harald. Exciton Binding Energy in Organic Polymers: Experimental Considerations and Tuning Prospects. In *ADVANCED ENERGY MATERIALS*, 2024, vol. 14, no. 6. ISSN 1614-6832. Dostupné na: <https://doi.org/10.1002/aenm.202302837>, Registrované v: WOS

ADCA756 SCHUTZ, Y. - MARTINEZ, G. - MARIN, A. - MATULEWICZ, T. - OSTENDORF, R.W. - BOZEK, P. - DELAGRANGE, H. - DIAZ, J. - FRANKE, M. - GUDIMA, K.K. - HLAVÁČ, Stanislav - HOLZMANN, R. - LAUTRIDOU, P. - LEFEVRE, F. - LOHNER, H. - MITTIG, W. - PLOSZCZAK, M. - VANPOL, J.H.G. - QUEBERT, J. - ROUSSELCHOMAZ, P. - SCHUBERT, A. - SIEMSEN, R.H. - SIMON, R.S. - SUJKOWSKI, Z. - TONEEV, V.D. - WAGNER, V. - WILSCHUT, A. - WOLF, G. Hard photons and neutral pions as probes of hot and dense nuclear matter. In *Nuclear Physics A*, 1997, vol. 622, no. 3, p. 404-477. ISSN 0375-9474. Dostupné na: [https://doi.org/10.1016/S0375-9474\(97\)00191-7](https://doi.org/10.1016/S0375-9474(97)00191-7)

Citácie:

1. [1.1] SHI, Chen-Zhong - CAI, Xiang-Zho - HUANG, BoSong - MA, YuGang. "Soft" interaction parameter sets in the extended quantum molecular dynamics model. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 5, art. no. 054621. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.054621>, Registrované v: WOS

ADCA757 SCHWEITZER, L. - MARKOŠ, Peter. Universal conductance and conductivity at critical points in integer quantum Hall systems. In *Physical Review Letters*, 2005, vol. 95, no. 25, art. no. 256805. (2004: 7.218 - IF, karentované - CCC). (2005 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.95.256805>

Citácie:

1. [1.1] BERA, Soumya - DIEPLINGER, Johannes - NAYAK, Naba P. Quantum Hall criticality in an amorphous Chern insulator. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 17, art. no. 174213. ISSN 2469-9950. Dostupné na:

- <https://doi.org/10.1103/PhysRevB.109.174213>, *Registrované v: WOS*
- ADCA758 SIDDIQUI, Mohd Asad - SAZIM, Sheik**. Mermin and Svetlichny inequalities for non-projective measurement observables. In *Journal of Physics A: Mathematical and Theoretical*, 2022, vol. 55, no. 46, art. no. 465301. (2021: 2.331 - IF, Q1 - JCR, 0.760 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/ac9f32>
- Citácie:
1. [1.1] *BHOWMICK, Swapnil - KANJILAL, Som - PAN, A. K. - SASMAL, Souradeep. Necessary and sufficient state condition for violation of a Bell inequality with multiple measurement settings. In PHYSICAL REVIEW A, 2024, vol. 110, no. 5, art. no. 052432. ISSN 2469-9926. Dostupné na: https://doi.org/10.1103/PhysRevA.110.052432, Registrované v: WOS*
- ADCA759 SIDOROV, V. - ŠVEC, Peter - JANIČKOVIČ, Dušan - MIKHAILOV, V. - SON, L. Magnetic properties and crystallization behavior of Al-Co-Ce(Dy) amorphous ribbons. In *Journal of Magnetism and Magnetic Materials*, 2015, vol. 395, p. 324-328. (2014: 1.970 - IF, Q2 - JCR, 0.815 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2015.07.072>
- Citácie:
1. [1.1] *USENKO, Natalia - IVANOV, Michael - KOTOVA, Natalia. Enthalpies of Mixing in Al-Ce-Co Liquid Alloys. In CHEMISTRYSELECT, 2024, vol. 9, no. 30, art. no. e202400763. ISSN 2365-6549. Dostupné na: https://doi.org/10.1002/slct.202400763, Registrované v: WOS*
- ADCA760 SILVEYRA, J. M. - ILLEKOVÁ, Emília - COISSON, M. - CELEGATO, F. - VINAI, F. - TIBERTO, P. - MOYA, J. A. - CREMASCHI, V. J. High performance of low cost soft magnetic materials. In *Bulletin of Materials Science*, 2011, vol. 34, no. 7, pp. 1407-1413. (2010: 0.944 - IF, Q3 - JCR, 0.495 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0250-4707. Dostupné na: <https://doi.org/10.1007/s12034-011-0336-5>
- Citácie:
1. [1.1] *LEE, Hyunkyung - CHOI, Hyunkyung - UHM, Young Rang - CHOI-YIM, Haein. Structural, Magnetic, and Mössbauer Study on Nb and Heat Treatment of Fe-Si-B-P-Cu-Nb Ribbons. In METALS, 2024, vol. 14, no. 12, art. no. 1381. Dostupné na: https://doi.org/10.3390/met14121381, Registrované v: WOS*
2. [1.2] *SAEED, U. - UPPAL, R. - NAJMI, M. H. - FAZAL, I. - KHAN, A. A. - PIRACHA, Z. Z. - UPPAL, M. R. - IJAZ, H. N. - OZSAHIN, D. U. - UZUN, B. - OZSAHIN, I. Cutting-edge: bionanomaterial solutions in the battle against Severe Acute Respiratory Syndrome Coronavirus 2. In Brazilian Journal of Biology, 2024-01-01, 84, pp. ISSN 15196984. Dostupné na: https://doi.org/10.1590/1519-6984.279564, Registrované v: SCOPUS*
- ADCA761 SIMON, C. - BUŽEK, Vladimír - GISIN, N. No-signaling condition and quantum dynamics. In *Physical Review Letters*, 2001, vol. 87, no. 17, art. no. 170405. (2000: 6.462 - IF, karentované - CCC). (2001 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.87.170405>
- Citácie:
1. [1.1] *HU, Yanglin - TOMAMICHEL, Marco. Fundamental limits on quantum cloning from the no-signaling principle. In PHYSICAL REVIEW A, 2024, vol. 109, no. 2, art. no. 022221. ISSN 2469-9926. Dostupné na: https://doi.org/10.1103/PhysRevA.109.022221, Registrované v: WOS*
2. [1.1] *NAIK, Laxmi Prasad - DAS, Rakesh Mohan - PANIGRAHI, Prasanta K. Stronger EPR-steering criterion based on inferred Schrödinger-Robertson uncertainty relation. In SCIENTIFIC REPORTS, 2024, vol. 14, no. 1, art. no. 420.*

ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-023-50029-z>,
Registrované v: WOS

3. [1.1] POLO-GOMEZ, Jose. Thermodynamic bound on quantum state discrimination. In *PHYSICAL REVIEW E*, 2024, vol. 109, no. 1, art. no. 014119. ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.109.014119>,
Registrované v: WOS

4. [1.1] WEI, Zhi-Wei - FEI, Shao-Ming. Nonlocal advantages of quantum imaginarity. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 5, art. no. 052202. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.052202>,
Registrované v: WOS

5. [1.1] ZHANG, Qing-Hua - LAI, Lemin - FEI, Shao-Ming. Parameterized steering criteria via correlation matrices. In *RESULTS IN PHYSICS*, 2024, vol. 56, no., art. no. 107253. ISSN 2211-3797. Dostupné na: <https://doi.org/10.1016/j.rinp.2023.107253>, Registrované v: WOS

ADCA762 SIMON, E.** - RÓZSA, L. - PALOTÁS, Krisztián - SZUNYOGH, L. Magnetism of a Co monolayer on Pt(111) capped by overlayers of 5d elements: A spin-model study. In *Physical Review B*, 2018, vol. 97, no. 13, art. no. 134405. (2017: 3.813 - IF, Q2 - JCR, 1.176 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.97.134405>

Citácie:

1. [1.1] DELGADO, Fernando - OTROKOV, Mikhail M. - ARNAU, Andres. Spin wave excitations in low dimensional systems with large magnetic anisotropy. In *JOURNAL OF PHYSICS-MATERIALS*, 2024, vol. 7, no. 3, art. no. 035005. Dostupné na: <https://doi.org/10.1088/2515-7639/ad558b>, Registrované v: WOS

2. [1.1] FAKHREDINE, Amar - WAWRO, Andrzej - AUTIERI, Carmine. Huge Dzyaloshinskii-Moriya interactions in Pt/Co/Re thin films. In *JOURNAL OF APPLIED PHYSICS*, 2024, vol. 135, no. 3, art. no. 035303. ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/5.0177260>, Registrované v: WOS

ADCA763 SIMON, E.* - YANES, R.* - KHMELEVSKYI, K.* - PALOTÁS, Krisztián* - SZUNYOGH, L.* - NOWAK, U.*. Magnetism and exchange-bias effect at the MnN/Fe interface. In *Physical Review B*, 2018, vol. 98, no. 9, art. no. 094415. (2017: 3.813 - IF, Q2 - JCR, 1.176 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.98.094415>

Citácie:

1. [1.1] CASO, Diego - -PRIETO, Ana Garcia - SEBASTIANI-TOFANO, Eugenia - KAMRA, Akashdeep - HERNANDEZ, Cayetano - PRIETO, Pilar - ALIEV, Farkhad G. Standing spin waves in permalloy-NiO bilayers as a probe of the interfacial exchange coupling. In *PHYSICAL REVIEW APPLIED*, 2024, vol. 21, no. 6, art. no. 064044. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.21.064044>, Registrované v: WOS

ADCA764 SIMSEK, Esra Bilgin - NOVÁK, Ivan - ŠAUŠA, Ondrej - BEREK, Dušan. Microporous carbon fibers prepared from cellulose as efficient sorbents for removal of chlorinated phenols. In *Research on Chemical Intermediates*, 2017, vol. 43, no. 1, p. 503-522. (2016: 1.369 - IF, Q3 - JCR, 0.286 - SJR, Q3 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0922-6168. Dostupné na: <https://doi.org/10.1007/s11164-016-2637-1>

Citácie:

1. [1.1] GODE, Julia Nercolini - MALARET, Francisco Jose - HALLETT, Jason Patrick - TREVISAN, Viviane - SKORONSKI, Everton. Phosphonium-based ionic liquid immobilised in sodium alginate as a novel adsorbent: Kinetics,

thermodynamics, and toxicity study on 2,4-dichlorophenol removal. In *CHEMICAL ENGINEERING RESEARCH & DESIGN*, 2024, vol. 205, no., pp. 161-173. ISSN 0263-8762. Dostupné na:

<https://doi.org/10.1016/j.cherd.2024.03.030>, Registrované v: WOS

2. [1.1] PANDIARAJAN, S. - VENKATESAN, S. - BALASUBRAMANI, K.

Adsorptive removal of 2, 4 dichlorophenol by polysulfone/graphene oxide blended microcapsules immobilized with CYPHOS® IL 103 ionic liquid. In *INDIAN JOURNAL OF CHEMICAL TECHNOLOGY*, 2024, vol. 31, no. 2, pp. 222-232. ISSN 0971-457X. Dostupné na:

<https://doi.org/10.56042/ijct.v31i2.3962>,

Registrované v: WOS

3. [1.1] UNTERWEGER, Christoph - GAVRILOV, Nemanja - BREITENBACH, Stefan - FUERST, Christian - PASTI, Igor A. Variation in Activation Parameters for the Preparation of Cellulose-Based Porous Carbon Fibers Used for Electrochemical Applications. In *FIBERS*, 2024, vol. 12, no. 6, art. no. 46.

Dostupné na: <https://doi.org/10.3390/fib12060046>, Registrované v: WOS

ADCA765 SIWAL, Samarjeet Singh - ZHANG, Qibo** - SUN, Changbin - THAKUR, Sourbh - GUPTA, Vijai Kumar - THAKUR, Vijay Kumar. Energy production from steam gasification processes and parameters that contemplate in biomass gasifier - A review. In *Bioresource Technology*, 2020, vol. 297, no. 12, art. no. 122481. (2019: 7.539 - IF, Q1 - JCR, 2.430 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0960-8524. Dostupné na: <https://doi.org/10.1016/j.biortech.2019.122481>

Citácie:

1. [1.1] ADENIYI, Adewale George - IWUOZOR, Kingsley O. - EMENIKE, Ebuka Chizitere - AMOLOYE, Mubarak A. - ADELEKE, Joy A. - OMONAYIN, Ebenezer O. - BAMIGBOLA, Joy O. - OJO, Happiness T. - EZZAT, Abdelrahman O. Leaf-based biochar: A review of thermochemical conversion techniques and properties. In *JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS*, 2024, vol. 177, no., art. no. 106352. ISSN 0165-2370. Dostupné na:

<https://doi.org/10.1016/j.jaap.2024.106352>, Registrované v: WOS

2. [1.1] AYUB, Yousaf - REN, Jingzheng - SHI, Tao. Exploring gasification process and technology for biomass-waste utilization: A comprehensive review on the path to sustainable energy. In *PROCESS SAFETY AND ENVIRONMENTAL PROTECTION*, 2024, vol. 188, no., pp. 1489-1501. ISSN 0957-5820. Dostupné na:

<https://doi.org/10.1016/j.psep.2024.06.056>, Registrované v: WOS

3. [1.1] BALABAN, Dario - STOSIC, Jelena Lubura - BERA, Oskar - KOJIC, Predrag. Performance analysis of refuse-derived fuel gasification plant with carbon capture and storage for power, heating, and hydrogen production. In *ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY*, 2024, vol. 43, no. 6. ISSN 1944-7442. Dostupné na: <https://doi.org/10.1002/ep.14472>, Registrované v: WOS

4. [1.1] CHUNTI, Chuntima - WORASUWANNARAK, Nakorn. Pressurized torrefaction of leucaena wood and its effect on bio-oils production. In *BIOMASS CONVERSION AND BIOREFINERY*, 2024, vol. 14, no. 18, pp. 22227-22237. ISSN 2190-6815. Dostupné na: <https://doi.org/10.1007/s13399-023-04307-5>, Registrované v: WOS

5. [1.1] CUI, Xiaoqiang - YANG, Yuxin - WANG, Jiangtao - CHENG, Zhanjun - WANG, Xutong - KHAN, Kiran Yasmin - XU, Shiwei - YAN, Beibei - CHEN, Guanyu. Pyrolysis of exhausted biochar sorbent: Fates of cadmium and generation of products. In *SCIENCE OF THE TOTAL ENVIRONMENT*, 2024, vol. 920, no., art. no. 170712. ISSN 0048-9697. Dostupné na:

<https://doi.org/10.1016/j.scitotenv.2024.170712>, Registrované v: WOS

6. [1.1] ELBL, Patrik - BALAS, Marek - LISY, Martin - LISA, Hana. Sewage sludge and digestate gasification in an atmospheric fluidized bed gasifier. In *BIOMASS CONVERSION AND BIOREFINERY*, 2024, vol. 14, no. 18, pp. 21821-21829. ISSN 2190-6815. Dostupné na: <https://doi.org/10.1007/s13399-023-04276-9>, Registrované v: WOS
7. [1.1] FERREIRO, A. I. - FERREIRA, A. F. - FERNANDES, E. C. - COELHO, P. Influence of process parameters on biomass gasification: A review of experimental studies in entrained flow reactors and droptube furnaces. In *BIOMASS & BIOENERGY*, 2024, vol. 185, no., art. no. 107217. ISSN 0961-9534. Dostupné na: <https://doi.org/10.1016/j.biombioe.2024.107217>, Registrované v: WOS
8. [1.1] GULEC, Fatih - PARTHIBAN, Anburajan - UMENWEKE, Great C. - MUSA, Umaru - WILLIAMS, Orla - MORTEZAEI, Yasna - SUK-OH, Hyun - LESTER, Edward - OGBAGA, Chukwuma C. - GUNES, Burcu - OKOLIE, Jude A. Progress in lignocellulosic biomass valorization for biofuels and value-added chemical production in the EU: A focus on thermochemical conversion processes. In *BIOFUELS BIOPRODUCTS & BIOREFINING-BIOFPR*, 2024, vol. 18, no. 3, pp. 755-781. ISSN 1932-104X. Dostupné na: <https://doi.org/10.1002/bbb.2544>, Registrované v: WOS
9. [1.1] HAN, Fengtao - NIU, Yonghong - ZHANG, Xiaowu - GUO, Zhenjie - DUAN, Shuangping - LIU, Haijing - LU, Bin - CHEN, Hui. Performance analysis of a pilot gasification system of biomass with stepwise intake of air-steam considering waste heat utilization. In *RENEWABLE ENERGY*, 2024, vol. 236, no., art. no. 121498. ISSN 0960-1481. Dostupné na: <https://doi.org/10.1016/j.renene.2024.121498>, Registrované v: WOS
10. [1.1] HOANG, Tuan-Dung - ANH, Nguyen Van - YUSUF, Mohammad - ALI, S. A. Muhammed - SUBRAMANIAN, Yathavan - NAM, Nguyen Hoang - KY, Nguyen Minh - LE, Van-Giang - HUYEN, Nguyen Thi Thanh - BIANASARI, Alien Abi - AZAD, Abul. Valorization of Agriculture Residues into Value-Added Products: A Comprehensive Review of Recent Studies. In *CHEMICAL RECORD*, 2024, vol. 24, no. 8. ISSN 1527-8999. Dostupné na: <https://doi.org/10.1002/tcr.202300333>, Registrované v: WOS
11. [1.1] KUMAR, Anil. Experimental analysis of dual-stage ignition biomass downdraft gasifier based on various gasification media for the generation of high-quality producer gas. In *FUEL*, 2024, vol. 361, no., art. no. 130708. ISSN 0016-2361. Dostupné na: <https://doi.org/10.1016/j.fuel.2023.130708>, Registrované v: WOS
12. [1.1] LI, Chao';en - SAGE, Valerie - WANG, Tianyi - TANG, Liangguang - YANG, Yunxia - LEE, Woo Jin - LIPPI, Renata - WANG, Feng - KOZIELSKI, Karen - PATEL, Jim. Evaluation and outlook for Australian renewable energy export via circular liquid hydrogen carriers. In *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, 2024, vol. 49, no., pp. 1509-1527. ISSN 0360-3199. Dostupné na: <https://doi.org/10.1016/j.ijhydene.2023.10.009>, Registrované v: WOS
13. [1.1] LOPES, Francisco Wendell Bezerra - ANDRADE, Maria Rosiane de Almeida - DE BARROS NETO, Eduardo Lins - LAVOIE, Jean-Michel - DE VASCONCELOS, Bruna Rego. H₂-rich syngas production from gasification of cannabis waste in a downdraft gasifier. In *BIOMASS & BIOENERGY*, 2024, vol. 190, no., art. no. 107417. ISSN 0961-9534. Dostupné na: <https://doi.org/10.1016/j.biombioe.2024.107417>, Registrované v: WOS
14. [1.1] MEENA, Pradeep Kumar - AWALE, Sandika Dixit - KUMAR, Sujeet - KUMAR, Deepak - KUMAR, Neeraj. Thermochemical conversion of agricultural

residue for the production of hydrogen, methane, and biofuels: A comprehensive overview. In *INDUSTRIAL CROPS AND PRODUCTS*, 2024, vol. 221, no., art. no. 119340. ISSN 0926-6690. Dostupné na:

<https://doi.org/10.1016/j.indcrop.2024.119340>, Registrované v: WOS

15. [1.1] MISHRA, Rahul - SHU, Chi-Min - GOLLAKOTA, Anjani R. K. - PAN, Shu-Yuan. Unveiling the potential of pyrolysis-gasification for hydrogen-rich syngas production from biomass and plastic waste. In *ENERGY CONVERSION AND MANAGEMENT*, 2024, vol. 321, no., art. no. 118997. ISSN 0196-8904. Dostupné na: <https://doi.org/10.1016/j.enconman.2024.118997>, Registrované v: WOS

16. [1.1] SHEN, Baohua - LU, Xiaoman - JIANG, Juan - LI, Daoguo. Modeling the emitted carbon dioxide and monoxide gases in the gasification process using optimized hybrid machine learning models. In *CHEMICAL PRODUCT AND PROCESS MODELING*, 2024, vol. 19, no. 6, pp. 1029-1051. ISSN 1934-2659. Dostupné na: <https://doi.org/10.1515/cppm-2024-0040>, Registrované v: WOS

17. [1.1] SHEN, Yafei. Biomass pretreatment for steam gasification toward H₂-rich syngas production An overview. In *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, 2024, vol. 66, no., pp. 90-102. ISSN 0360-3199. Dostupné na: <https://doi.org/10.1016/j.ijhydene.2024.04.096>, Registrované v: WOS

18. [1.1] SHIM, Haneul - KHANI, Yasin - VALIZADEH, Behzad - LEE, See Hoon - KO, Chang Hyun - LEE, Doyeon - PARK, Young-Kwon. Improved biohydrogen production using Ni/ZrxCeyO₂ loaded on foam reactor through steam gasification of sewage sludge. In *BIORESOURCE TECHNOLOGY*, 2024, vol. 413, no., art. no. 131530. ISSN 0960-8524. Dostupné na:

<https://doi.org/10.1016/j.biortech.2024.131530>, Registrované v: WOS

19. [1.1] SUKSUWAN, Wasu - PALAMANIT, Arkom - WAE-HAYEE, Makatar. Behavior and Syngas Characteristics with Alternative Inlet Air Configurations in Fluidized Bed Gasification of Oil Palm Biomass. In *BIOENERGY RESEARCH*, 2024, vol. 17, no. 2, pp. 1344-1354. ISSN 1939-1234. Dostupné na:

<https://doi.org/10.1007/s12155-023-10702-7>, Registrované v: WOS

20. [1.1] SUPARMIN, Prayudi - PURWANTI, Nanik - NELWAN, Leopold Oscar - TAMBUNAN, Armansyah Halomoan. Syngas production by biomass gasification: A meta-analysis. In *RENEWABLE & SUSTAINABLE ENERGY REVIEWS*, 2024, vol. 206, no., art. no. 114824. ISSN 1364-0321. Dostupné na:

<https://doi.org/10.1016/j.rser.2024.114824>, Registrované v: WOS

21. [1.1] TUSHAR, Saifur Rahman - IMTIAZH, Md. Shamsul Arefin - BIN NOOR, Rafsun - BIN ALAM, Md. Fahim - BARI, A. B. M. Mainul - ISLAM, Abu Reza Md. Towfiqul - KABIR, Mohammad Mahbub. An Intuitionistic fuzzy approach to modeling the drivers to promote Energy-Efficient textile Manufacturing: Implications for sustainable development. In *JOURNAL OF KING SAUD UNIVERSITY SCIENCE*, 2024, vol. 36, no. 6, art. no. 103214. ISSN 1018-3647. Dostupné na: <https://doi.org/10.1016/j.jksus.2024.103214>, Registrované v: WOS

22. [1.1] WANG, Fang - PENG, Weini - ZENG, Xi - SUN, Duo - CUI, Guannan - HAN, Zhennan - WANG, Chao - XU, Guangwen. Insight into staged gasification of biomass waste: Essential fundamentals and applications. In *SCIENCE OF THE TOTAL ENVIRONMENT*, 2024, vol. 953, no., art. no. 175954. ISSN 0048-9697. Dostupné na: <https://doi.org/10.1016/j.scitotenv.2024.175954>, Registrované v: WOS

23. [1.1] XIAO, Zijing - WU, Weiguang. Environmental sustainability by an integrated system based on municipal solid waste fluidized bed gasification using energy, exergy, and environmental analyses. In *APPLIED THERMAL ENGINEERING*, 2024, vol. 239, no., art. no. 122171. ISSN 1359-4311. Dostupné

na: <https://doi.org/10.1016/j.applthermaleng.2023.122171>, Registrované v: WOS

24. [1.1] YESILOVA, Nazlican - TEZER, Ozgun - ONGEN, Atakan - AYOL, Azize. Enhancing biomass gasification: A comparative study of catalyst applications in updraft and modifiable-downdraft fixed bed reactors. In *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, 2024, vol. 76, no., pp. 290-303. ISSN 0360-3199. Dostupné na: <https://doi.org/10.1016/j.ijhydene.2024.05.075>, Registrované v: WOS

25. [1.1] ZAHRA, Aghietyas Choirun Az - OKURA, Hirozumi - CHAERUSANI, Viridi - ALAHAKOON, Alahakoon Mudiyansele Yushani Wimansika - RIZKIANA, Jenny - KANG, Dong-Jin - ABUDULA, Abuliti - GUAN, Guoqing. Optimizing hydrogen gas production from genetically modified rice straw by steam co-gasification. In *WASTE MANAGEMENT*, 2024, vol. 184, no., pp. 132-141. ISSN 0956-053X. Dostupné na: <https://doi.org/10.1016/j.wasman.2024.05.031>, Registrované v: WOS

26. [1.1] ZHOU, Quanhui - SHEN, Yafei - GU, Xuehong. Progress in torrefaction pretreatment for biomass gasification. In *GREEN CHEMISTRY*, 2024, vol. 26, no. 18, pp. 9652-9670. ISSN 1463-9262. Dostupné na: <https://doi.org/10.1039/d4gc03243h>, Registrované v: WOS

27. [1.2] AKKALA, Siva R. - JEREMIAS, Michal - KAVITI, Ajay K. - SIKARWAR, Vineet S. Biomass Conversion by Gasification Process. In *Encyclopedia of Renewable Energy Sustainability and the Environment Volume 1 4*, 2024-01-01, 1, pp. 661-680. ISBN [9780323939409, 9780323939416]. Dostupné na: <https://doi.org/10.1016/B978-0-323-93940-9.00017-7>, Registrované v: SCOPUS

28. [1.2] BABU, Pradeepta - PARIDA, Kulamani. Graphitic carbon nitride as a metal free photocatalyst for solar water splitting. In *Handbook of Emerging Materials for Sustainable Energy*, 2024-01-01, pp. 347-380. ISBN [9780323996792, 9780323961257]. Dostupné na: <https://doi.org/10.1016/B978-0-323-96125-7.00036-8>, Registrované v: SCOPUS

29. [1.2] CHUNTI, Chuntima - WORASUWANNARAK, Nakorn. Pressurized torrefaction of leucaena wood and its effect on bio-oils production. In *Biomass Conversion and Biorefinery*, 2024-09-01, 14, 18, pp. 22227-22237. ISSN 21906815. Dostupné na: <https://doi.org/10.1007/s13399-023-04307-5>, Registrované v: SCOPUS

30. [1.2] KHADEMI, Mohammad Hasan. Life Cycle Assessment of Hydrogen Production Techniques. In *Hydrogen Production from Nonrenewable Resources*, 2024-01-01, pp. 295-340. ISBN [9781032465586, 9781040105948]. Dostupné na: <https://doi.org/10.1201/9781003382263-15>, Registrované v: SCOPUS

31. [1.2] PATHANIA, Apoorva - PATHANIA, Anu Radha. Animal Wastes: Fundamentals, Classification, Properties, and Applications. In *Biomass Wastes for Sustainable Industrial Applications A Waste to Wealth Approach*, 2024-01-01, pp. 140-183. ISBN [9781032739441, 9781040149478]. Dostupné na: <https://doi.org/10.1201/9781003466833-7>, Registrované v: SCOPUS

32. [1.2] RATHINAPRIYA, Periyasamy - MAHARAJAN, Theivanayagam - JOTHI, Ravi - PRABAKARAN, Mayakrishnan - LEE, In Bog - YI, Pyoung Ho - JEONG, Seung Tak. Unlocking biochar impacts on abiotic stress dynamics: a systematic review of soil quality and crop improvement. In *Frontiers in Plant Science*, 2024-01-01, 15, pp. Dostupné na: <https://doi.org/10.3389/fpls.2024.1479925>, Registrované v: SCOPUS

33. [1.2] SHARMA, Prashant - SHARMA, Arun Kumar - GUPTA, Bhupendra - BARENDAR, Prashant - CHOUDHARY, Tushar. Hydrogen production from biomass: Harnessing nature for sustainable energy. In *Hydrogen Energy Production Storage and Utilization*, 2024-01-01, pp. 91-110. ISBN

[9781032393032, 9781040261453]. Dostupné na:

<https://doi.org/10.1201/9781003537816-6>, Registrované v: SCOPUS

34. [1.2] TAN, Isabel Jia Yen - LOY, Adrian Chun Minh - CHIN, Bridgid Lai Fui - CHEAH, Kin Wai - TENG, Sin Yong - HOW, Bing Shen - ALHAZMI, Hatem - LEONG, Wei Dong - LIM, Huei Yeong - LAM, Man Kee - LAM, Su Shiung. Co-pyrolysis of *Chlorella vulgaris* with plastic wastes: Thermal degradation, kinetics and Progressive Depth Swarm-Evolution (PDSE) neural network-based optimization. In *Green Technologies and Sustainability*, 2024-05-01, 2, 2, pp.

Dostupné na: <https://doi.org/10.1016/j.grets.2024.100077>, Registrované v: SCOPUS

35. [1.2] TUNÇAL, Tolga. Management of Textile Industry Sludge for Environmental Sustainability. In *Recent Trends in Management and Utilization of Industrial Sludge*, 2024-01-01, pp. 37-55. ISBN [9783031584558, 9783031584565]. Dostupné na: https://doi.org/10.1007/978-3-031-58456-5_2, Registrované v: SCOPUS

ADCA766

SKÁKALOVÁ, Viera** - KOTRUSZ, Peter - JERGEL, Matej - SUSI, Toma - MITTELBERGER, Andreas - VRETENÁR, Viliam - ŠIFFALOVÍČ, Peter - KOTAKOSKI, Jani - MEYER, Jannik C. - HULMAN, Martin. Chemical oxidation of graphite: Evolution of the structure and properties. In *Journal of Physical Chemistry C*, 2018, vol. 122, no. 1, p. 929-935. (2017: 4.484 - IF, Q1 - JCR, 2.135 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.7b10912>

Citácie:

1. [1.1] HELLAL, Ahmed - ABDELSALAMB, Hazem - TAWFIK, Walid - IBRAHIM, Medhat A. - ELFEKY, Souad A. Assessment of Different Technologies using Graphene-Based Materials for the Adsorption of Atrazine in Polluted Water. In *EGYPTIAN JOURNAL OF CHEMISTRY*, 2024, vol. 67, no. 4, pp. 381-396. ISSN 0449-2285. Dostupné na:

<https://doi.org/10.21608/ejchem.2023.213587.8025>, Registrované v: WOS

2. [1.1] OH, Keun-Hwan - KIM, Heejin - NAM, Kwan Woo. Effect of Crown Ether Additives on the Enhanced Performance of Metallic Bipolar Plates for Proton Exchange Membrane Fuel Cells. In *ACS APPLIED MATERIALS & INTERFACES*, 2024, vol. 16, no. 5, pp. 5725-5734. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.3c13530>, Registrované v: WOS

3. [1.1] SENGOTTUVELU, Dineshkumar - ALMASHAQBEH, Hashem Khaled - MAJDOUB, Mohammed - PRAMANIK, Avijit - RUSHING, Grace - DOYLE, Jesse - NOURANIAN, Sasan - RAY, Paresh Chandra - UCAK-ASTARLIOGLU, Mine - AL-OSTAZ, Ahmed. Improved Oxidation of Graphite and Graphene Nanoplatelets: Application to the Modification of Asphalt Binder. In *ACS APPLIED NANO MATERIALS*, 2024, vol. 7, no. 4, pp. 3939-3949. Dostupné na: <https://doi.org/10.1021/acsanm.3c05565>, Registrované v: WOS

4. [1.2] SUBRATI, Ahmed - GUTIÉRREZ-PINEDA, Eduart - MOYA, Sergio E. To-Pack or Not-to-Pack: Towards Improved Graphite Electrochemical Oxidation Through Electrode Design. In *Chempluschem*, 2024-12-01, 89, 12, pp. Dostupné na: <https://doi.org/10.1002/cplu.202400265>, Registrované v: SCOPUS

ADCA767

SKODA, David** - URBANEK, Pavel - SEVCIK, Jakub - MUNSTER, Lukas - NÁDAŽDY, Vojtech - CULLEN, David A. - BAZANT, Pavel - ANTOS, Jan - KURITKA, Ivo. Colloidal cobalt-doped ZnO nanoparticles by microwave-assisted synthesis and their utilization in thin composite layers with MEH-PPV as an electroluminescent material for polymer light emitting diodes. In *Organic Electronics*, 2018, vol. 59, p. 337-348. (2017: 3.680 - IF, Q1 - JCR, 1.085 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1566-1199. Dostupné na:

<https://doi.org/10.1016/j.orgel.2018.05.037>

Citácie:

1. [1.1] KTIFA, Skander - RAHMANI, Mehdi - KHALFAOUI, Anouar. Optical and photo-thermal investigations of MEH-PPV layer spin coated on nano-porous silicon structure. In *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING*, 2024, vol. 130, no. 12, art. no. 883. ISSN 0947-8396. Dostupné na: <https://doi.org/10.1007/s00339-024-08063-9>, Registrované v: WOS
2. [1.1] NASRIN, Rahima - HAQ, Md. Obaydul - RAHMAN, Md. Asafur. Influence of metal doping on topographic, microstructural, optical and thermal properties of zinc oxide nanoparticles. In *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING*, 2024, vol. 130, no. 7, art. no. 473. ISSN 0947-8396. Dostupné na: <https://doi.org/10.1007/s00339-024-07619-z>, Registrované v: WOS
3. [1.1] WAHBA, Mohammed A. - YAKOUT, S. M. - SHETA, Sheta M. - HELAL, Ahmed - EL-SHEIKH, Said M. Robust ferromagnetic V_{0.05}-X Cox Zn_{0.95} O ($x=0.01, 0.02, 0.03, 0.04, 0.05$) nano-compounds: New dilute magnetic-semiconductors with tailored optical activity. In *JOURNAL OF ALLOYS AND COMPOUNDS*, 2024, vol. 1003, no., art. no. 175503. ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.175503>, Registrované v: WOS
4. [1.2] GHULE, Babaji - LAAD, Meena - KALE, Girish - SADASIVUNI, Kishor Kumar. Polymer nanocomposite film and coating for electronic and optoelectronic devices. In *Polymer Nanocomposite Films and Coatings Processes Fundamental Properties and Applications*, 2024-01-01, pp. 293-331. ISBN [9780443191404, 9780443191398]. Dostupné na: <https://doi.org/10.1016/B978-0-443-19139-8.00016-4>, Registrované v: SCOPUS

ADCA768 SLEVIN, Keith - MARKOŠ, Peter - OHTSUKI, Tomi. Reconciling Conductance Fluctuations and the Scaling Theory of Localization. In *Physical Review Letters*, 2001, vol. 86, no. 16, p. 3594-3597. (2000: 6.462 - IF, karentované - CCC). (2001 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.86.3594>

Citácie:

1. [1.1] NAYAK, Naba P. - SARKAR, Surajit - DAMLE, Kedar - BERA, Soumya. Band-center metal-insulator transition in bond-disordered graphene. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 3, art. no. 035109. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.035109>, Registrované v: WOS

ADCA769 SMALLCOMBE, J.** - DAVIES, P.J. - BARTON, C.J. - ANDERSSON, L.L. - BUTLER, P.A. - COX, D.M. - GRAHN, T. - GREENLEES, P.T. - HAUSCHILD, K. - HERZÁŇ, Andrej - HERZBERG, R.-D. - JAKOBSSON, U. - JENKINS, D.G. - JONES, P. - JULIN, R. - JUUTINEN, S. - KETELHUT, S. - LEINO, M. - LOPEZ-MARTENS, A. - MISTRY, A. - NIEMINEN, P. - PAKARINEN, J. - PAPADAKIS, P. - PARR, E. - PEURA, P. - RAHKILA, P. - RINTA-ANTILA, S. - RUOTSALAINEN, P. - SANDZELIUS, M. - SAR'EN, J. - SCHOLEY, C. - SORRI, J. - UUSITALO, J. Confirming band assignments in 167ytterbium with gamma-gamma-electron triple-coincidence spectroscopy. In *European Physical Journal A*, 2019, vol. 55, no. 1, art. no. 1. (2018: 2.481 - IF, Q2 - JCR, 1.172 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1434-6001. Dostupné na: <https://doi.org/10.1140/epja/i2019-12675-8>

Citácie:

1. [1.2] GAN, L. - SUN, H. B. - JIANG, W. - LI, Z. H. - ZHONG, J. - ROHILLA, A. - HUANG, Z. Y. - LI, X. Y. - NAN, W. - NAN, W. K. - HU, S. P. - LI, E. T. Experimental measurement of Zr 91 (n,γ) Zr 92 at the CSNS Back-n facility from 0.82 keV to 229 keV. In *Physical Review C*, 2024-08-01, 110, 2, pp. ISSN

24699985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.025802>,
Registrované v: SCOPUS

2. [1.2] HINGU, Akash - MUKHERJEE, S. - PARASHARI, Siddharth - SANGEETA, Arora - GANDHI, A. - UPADHYAY, Mahima - CHOUDHARY, Mahesh - BAMAL, Sumit - SINGH, Namrata - MISHRA, G. - DE, Sukanya - SOOD, Saurav - PRASAD, Sajin - SAXENA, G. - KUMAR, Ajay - THOMAS, R. G. - AGRAWAL, B. K. - KATOVSKY, K. - KUMAR, A. Investigation of ^{58}Ni (n, p) ^{58}Co reaction cross-section with covariance analysis. In *Chinese Physics C*, 2024-02-01, 48, 2, pp. ISSN 16741137. Dostupné na:

<https://doi.org/10.1088/1674-1137/ad0e5a>, Registrované v: SCOPUS

3. [1.2] LI, Baoqian - XIAO, Min - CHEN, Yonghao - XUE, Jieming - LI, Xinxiang - YI, Han - CHENG, Pinjing - LIU, Rong - YANG, Yiwei - HAN, Zijie - ZHAO, Dajun - WANG, Haoqiang - ZHAO, Jirong - LUAN, Peng - LIU, Jing - LIU, Zijun - CHEN, Chaomin - LUO, Wen - ZHENG, Bo - FENG, Song. New measurement of the neutron-induced total cross-sections of natCr in a wide energy range on the Back-n at CSNS. In *Chinese Physics C*, 2024-10-01, 48, 10, pp. ISSN 16741137.

Dostupné na: <https://doi.org/10.1088/1674-1137/ad66c0>, Registrované v: SCOPUS

4. [1.2] WAN, Tao - TANG, Shu Lin - QIAN, Yi Bin. α -decay properties of superheavy nuclei with $117 \leq Z \leq 120$ from the systematics of decay chains and isotopic chains. In *Chinese Physics C*, 2024-03-01, 48, 3, pp. ISSN 16741137.

Dostupné na: <https://doi.org/10.1088/1674-1137/ad1582>, Registrované v: SCOPUS

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SMITH, D.R. - SCHULTZ, S. - MARKOŠ, Peter - SOUKOULIS, C.M. Determination of effective permittivity and permeability of metamaterials from reflection and transmission coefficients. In *Physical Review B*, 2002, vol. 65, no. 19, art. no. 195104. (2001: 3.070 - IF, karentované - CCC). (2002 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.65.195104>

Citácie:

1. [1.1] AGARWAL, Rishabh - GUPTA, Surendra kumar - BAGE, Amit. Perfect THz absorber based on vanadium dioxide. In *OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS*, 2024, vol. 18, no. 11-12, pp. 525-531. ISSN 1842-6573., Registrované v: WOS

2. [1.1] AHMED, Md. Rezwana - JYOTI, Oishi - FARJANA, Ferdous - ARKAR, Pritu P. - PAUL, Alok Kumar - HABIB, Md Samiul. Theoretical and numerical investigation of an ultra-broadband near-perfect absorption in auxetic metamaterials. In *OPTICS CONTINUUM*, 2024, vol. 3, no. 11, pp. 2139-2149. Dostupné na: <https://doi.org/10.1364/OPTCON.539561>, Registrované v: WOS

3. [1.1] ALBALAWI, Karma M. - SAEEDI, Ahmad M. - SOLRE, Gideon F. B. - SALEH, Ebraheem Abdu Musad - KASSEM, Asmaa F. - EL-ZAHAR, Adel A. - ALGHAMDI, Majed M. - BILAL, Muhammad Kashif - IRFAN, Muhammad. Atomically substitution engineering of europium-based dichalcogenides for enhancing tailored properties and superior applications. In *POLYHEDRON*, 2024, vol. 260, no., art. no. 117095. ISSN 0277-5387. Dostupné na: <https://doi.org/10.1016/j.poly.2024.117095>, Registrované v: WOS

4. [1.1] ALKHALAF, Hussein Yahya - AHMAD, Mohd Yazed - RAMIAH, Harikrishnan - HOSSAIN, A. K. M. Zakir - AZAM, S. M. Kayser - THIHA, Aung. Flexible Meta-Patch Rectenna Array for Energizing Low-Power Wearable Medical Sensors. In *IEEE ACCESS*, 2024, vol. 12, no., pp. 121570-121585. ISSN 2169-3536. Dostupné na: <https://doi.org/10.1109/ACCESS.2024.3452316>, Registrované v: WOS

5. [1.1] ALMEIDA, Gildean do N. - VERGARA, Erasmo F. - BARBOSA, Leandro R. - LENZI, Arcanjo - SILVA, Olavo M. On the use of metamaterials with negative effective parameters for dual sound energy control. In *APPLIED ACOUSTICS*, 2024, vol. 221, no., art. no. 110010. ISSN 0003-682X. Dostupné na: <https://doi.org/10.1016/j.apacoust.2024.110010>, Registrované v: WOS
6. [1.1] ANGIULLI, Giovanni - VERSACI, Mario - CALCAGNO, Salvatore - DI BARBA, Paolo. Analytic Continuation, Phase Unwrapping, and Retrieval of the Refractive Index of Metamaterials from S-Parameters. In *SENSORS*, 2024, vol. 24, no. 3, art. no. 912. Dostupné na: <https://doi.org/10.3390/s24030912>, Registrované v: WOS
7. [1.1] BILLA, Md. Bakey - ISLAM, Mohammad Tariqul - ALAM, Touhidul - HOQUE, Ahasanul - ALBADDRAN, Saleh - ALSAIF, Haitham - ALSHAMMARI, Ahmed S. - ALZAMIL, Ahmed - SOLIMAN, Mohamed S. Morphological, optical, and electrical properties of $\text{CoxCa}(0.90-x)\text{Ni}_{0.10}\text{Fe}_2\text{O}_4$ based flexible metamaterial substrate for industrial chemical contamination sensing. In *JOURNAL OF SCIENCE-ADVANCED MATERIALS AND DEVICES*, 2024, vol. 9, no. 1, art. no. 100659. ISSN 2468-2284. Dostupné na: <https://doi.org/10.1016/j.jsamd.2023.100659>, Registrované v: WOS
8. [1.1] CHANG, Yu-Han - ABDELGHAN, R. A. - PENG, Wei Lun - WU, Cen-Shawn - KUO, Watson. Fast and slow waves in a chain of superconducting split-ring resonators with staggered coupling strengths. In *OPTICS EXPRESS*, 2024, vol. 32, no. 18, pp. 30955-30968. ISSN 1094-4087. Dostupné na: <https://doi.org/10.1364/OE.528743>, Registrované v: WOS
9. [1.1] CHEN, Chunhui - JIANG, Ziyang - BAI, Yu - ZHAI, Menglin - JIA, Fengde - HAI, Wenqing - LI, Minghao - JIANG, Jinhua - SHAO, Huiqi - SHAO, Guangwei - CHEN, Nanliang - BI, Siyi. Large-Scale Fabrication of Customized, Tunable, Ultrathin, and Flexible Metamaterial Absorbers Based on Laser-induced Graphene. In *CHEMICAL ENGINEERING JOURNAL*, 2024, vol. 489, no., art. no. 151275. ISSN 1385-8947. Dostupné na: <https://doi.org/10.1016/j.cej.2024.151275>, Registrované v: WOS
10. [1.1] CHEN, Xiangtao - LIANG, Zhongzhu - SHI, Xiaoyan - YANG, Fuming - DAI, Rui - DONG, Yongjun - JIA, Yan - WEI, Xintong - HOU, Enzhu - WU, Zhe. Wide-angle ultra-wideband metamaterial absorber based on complex dielectric layer in long and very long-wave infrared. In *OPTICS COMMUNICATIONS*, 2024, vol. 566, no., art. no. 130455. ISSN 0030-4018. Dostupné na: <https://doi.org/10.1016/j.optcom.2024.130455>, Registrované v: WOS
11. [1.1] CHEN, Yong - YUAN, Xujin. Reflection modulation generated by scale-free network resonator periodic structure. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 5, art. no. 055529. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad130e>, Registrované v: WOS
12. [1.1] DAI, Ji - JIANG, Haitao - GUO, Zhiwei - QIU, Jun. Tunable Epsilon-and-Mu-Near-Zero Metacomposites. In *ADVANCED FUNCTIONAL MATERIALS*, 2024, vol. 34, no. 13. ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202308338>, Registrované v: WOS
13. [1.1] DE ARAUJO, Bruno - MORLAAS, Christophe - PASCAUD, Romain - CHABORY, Alexandre - GRZESKOWIAK, Marjorie - MAZINGUE, Gautier. 3D-printed heterogeneous isotropic-anisotropic dielectric resonator for singly fed dual-band circularly polarised antennas. In *IET MICROWAVES ANTENNAS & PROPAGATION*, 2024, vol. 18, no. 4, pp. 220-230. ISSN 1751-8725. Dostupné na: <https://doi.org/10.1049/mia2.12433>, Registrované v: WOS
14. [1.1] DING, Kaifa - YANG, Yang. Reverse design of load-bearing broadband metamaterial absorber assisted by deep learning. In *SMART MATERIALS AND*

STRUCTURES, 2024, vol. 33, no. 12, art. no. 125029. ISSN 0964-1726. Dostupné na: <https://doi.org/10.1088/1361-665X/ad939c>, Registrované v: WOS

15. [1.1] EL-NADY, Shaza - AFIFI, Asmaa - ABD EL-HAMEED, Anwer S. Sugar and Salt Concentration Detection in Water Employing ENZ Metamaterial Microwave Sensor. In WIRELESS PERSONAL COMMUNICATIONS, 2024, vol. 134, no. 1, pp. 189-208. ISSN 0929-6212. Dostupné na: <https://doi.org/10.1007/s11277-024-10899-6>, Registrované v: WOS

16. [1.1] FARUQUE, Mohammad Rashed Iqbal - HOSSAIN, Md. Bellal - ISLAM, Mohammad Tariqul - KHANDAKER, Mayeen Uddin. Penta-band negative permittivity metamaterial with split disc ring resonator for s, c, x and Ku band applications. In APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, 2024, vol. 130, no. 6, art. no. 427. ISSN 0947-8396. Dostupné na: <https://doi.org/10.1007/s00339-024-07587-4>, Registrované v: WOS

17. [1.1] FIRESTEIN, Chen - SHLIVINSKI, Amir - HADAD, Yakir. Optimal design of Dallenbach absorbers under broadband broad-angle illumination. In PHYSICAL REVIEW APPLIED, 2024, vol. 22, no. 4, art. no. 044044. ISSN 2331-7019. Dostupné na: <https://doi.org/10.1103/PhysRevApplied.22.044044>, Registrované v: WOS

18. [1.1] GAO, Hong-Wei - XIN, Xi-Min - LIM, Qi Jian - WANG, Shu - PENG, Zhen. Efficient Full-Wave Simulation of Large-Scale Metasurfaces and Metamaterials. In IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, 2024, vol. 72, no. 1, pp. 800-811. ISSN 0018-926X. Dostupné na: <https://doi.org/10.1109/TAP.2023.3337990>, Registrované v: WOS

19. [1.1] GARG, Puneet - LAMPRIANIDIS, Aristeidis G. - RAHMAN, Sydur - STEFANO, Nikolaos - ALMPANIS, Evangelos - PAPANIKOLAOU, Nikolaos - VERFUERTH, Barbara - ROCKSTUHL, Carsten. Two-step homogenization of spatiotemporal metasurfaces using an eigenmode-based approach. In OPTICAL MATERIALS EXPRESS, 2024, vol. 14, no. 2, pp. 549-563. ISSN 2159-3930. Dostupné na: <https://doi.org/10.1364/OME.509897>, Registrované v: WOS

20. [1.1] GIANNINI, Daniele - REYNOLDERS, Edwin P. B. Effective medium modelling of real-world multi-modal metamaterial panels achieving broadband vibroacoustic attenuation. In EXTREME MECHANICS LETTERS, 2024, vol. 69, no., art. no. 102161. ISSN 2352-4316. Dostupné na: <https://doi.org/10.1016/j.eml.2024.102161>, Registrované v: WOS

21. [1.1] GUO, Zhiwei - WANG, Yuqian - KE, Shaolin - SU, Xiaoqiang - REN, Jie - CHEN, Hong. 1D Photonic Topological Insulators Composed of Split Ring Resonators: A Mini Review. In ADVANCED PHYSICS RESEARCH, 2024, vol. 3, no. 6, art. no. 2300125. ISSN 2751-1200. Dostupné na: <https://doi.org/10.1002/apxr.202300125>, Registrované v: WOS

22. [1.1] HOU, Enzhu - LIANG, Zhongzhu - SHI, Xiaoyan - YANG, Fuming - ZHANG, Xiqing - DAI, Rui - ZHANG, Shoutao - LIU, Weizhen - JIA, Yan. Polarization-sensitive metamaterial absorber based on the composite grating structure in the long-wave infrared band. In OPTICS AND LASER TECHNOLOGY, 2024, vol. 175, no., art. no. 110676. ISSN 0030-3992. Dostupné na: <https://doi.org/10.1016/j.optlastec.2024.110676>, Registrované v: WOS

23. [1.1] HU, Xinhui - NING, Kexin - UN, Ieng wai - JIANG, Jiayi - DENG, Junxian - DONG, Jiannan - JIANG, Xiaofang - FAN, Haihua - CHEN, Yihang. Nonlinear metasurface engineering with disordered gold nanorods on ITO: a cost-effective approach to broadband response, polarization-independence, and weak nonlinear index dispersion. In OPTICS LETTERS, 2024, vol. 49, no. 12, pp. 3400-3403. ISSN 0146-9592. Dostupné na: <https://doi.org/10.1364/OL.521467>, Registrované v: WOS

24. [1.1] JIANG, Xiaoyun - FAN, Fei - SU, Feng - MU, Tianrui - HUANG, Chan - ZHOU, Leiming - HU, Jigang. Broadband light absorption by a hemispherical concentric nanoshell array. In NANOTECHNOLOGY, 2024, vol. 35, no. 23, art. no. 235201. ISSN 0957-4484. Dostupné na: <https://doi.org/10.1088/1361-6528/ad2f75>, Registrované v: WOS
25. [1.1] JING, Huihui - GAO, Yulong - KANG, Jinfeng - ZHAO, Ling - CHEN, Linyue - DUAN, Junping - QU, Zeng - WANG, Jiayun - ZHANG, Binzhen. Bifunctional integrated metamaterial of water-based broadband absorption and polarization conversion. In OPTICS AND LASER TECHNOLOGY, 2024, vol. 177, no., art. no. 111174. ISSN 0030-3992. Dostupné na: <https://doi.org/10.1016/j.optlastec.2024.111174>, Registrované v: WOS
26. [1.1] JING, Huihui - KANG, Jinfeng - SONG, Chengwei - DUAN, Junping - QU, Zeng - WANG, Jiayun - ZHANG, Binzhen. Bifunctional switchable terahertz metamaterial in the same operating band based on VO₂. In OPTICS COMMUNICATIONS, 2024, vol. 552, no., art. no. 130047. ISSN 0030-4018. Dostupné na: <https://doi.org/10.1016/j.optcom.2023.130047>, Registrované v: WOS
27. [1.1] KANAUIA, Binod Kumar - CHAURASIA, Praveen. Design and mathematical modeling of DNG metamaterial having six-band capabilities with high effective medium ratio. In JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, 2024, vol. 38, no. 6, pp. 704-723. ISSN 0920-5071. Dostupné na: <https://doi.org/10.1080/09205071.2024.2324842>, Registrované v: WOS
28. [1.1] KHALIL, Muhammad Amir - YONG, Wong Hin - HOQUE, Ahasanul - ISLAM, Md. Shabiul - CHIONG, Lo Yew - CHIN LEEI, Cham - ALZAMIL, Ahmed - ISLAM, Mohammad Tariqul. A compact quad-square negative-index metamaterial: Design, simulation, and experimental validation for microwave applications. In APL MATERIALS, 2024, vol. 12, no. 6, art. no. 061103. ISSN 2166-532X. Dostupné na: <https://doi.org/10.1063/5.0204501>, Registrované v: WOS
29. [1.1] KORAL, Can - BAGCI, Fulya. A Hybrid Design for Frequency-Independent Extreme Birefringence Combining Metamaterials with the Form Birefringence Concept. In PHOTONICS, 2024, vol. 11, no. 9, art. no. 860. Dostupné na: <https://doi.org/10.3390/photonics11090860>, Registrované v: WOS
30. [1.1] KUMARI, Ranjana - TOMAR, V. K. Mutual Coupling Reduction of Super Wide Band MIMO Antenna Using Metamaterial Periodic Defected Ground Structures for THz Applications. In INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING, 2024, vol. 16, no. 5, pp. 311-323. ISSN 2229-838X. Dostupné na: <https://doi.org/10.30880/ijie.2024.16.05.024>, Registrované v: WOS
31. [1.1] LI, Binghui - YU, Zhenshan - CHEN, Hao - CHEN, Xuequan - LIN, Yu-Sheng. Microelectromechanical System-Based Reconfigurable Terahertz Metamaterial for Polarization Filter, Switch, and Logic Modulator Applications. In ACS APPLIED MATERIALS & INTERFACES, 2024, vol. 16, no. 34, pp. 45771-45777. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.4c10972>, Registrované v: WOS
32. [1.1] LI, Bingzhen - CHEN, Yuhua - WU, Qingqing - LI, Yan - WANG, Jijun - LI, Fangyuan - LI, Ning. An ultrathin and dual-band bidirectional metasurface absorber based on ring-disk resonators. In APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, 2024, vol. 130, no. 2, art. no. 125. ISSN 0947-8396. Dostupné na: <https://doi.org/10.1007/s00339-023-07240-6>, Registrované v: WOS
33. [1.1] LI, Fengjie - DU, Jiansen - WANG, Shang - YU, Ruitao - WANG, Xi -

- ZHANG, Tiqiang - CHI, Zongtao - WANG, Bin - LI, Ning. Ultra-broadband infrared metamaterial absorber based on MDMDM structure for optical sensing. In *FRONTIERS IN ASTRONOMY AND SPACE SCIENCES*, 2024, vol. 10, no., art. no. 1338284. ISSN 2296-987X. Dostupné na: <https://doi.org/10.3389/fspas.2023.1338284>, Registrované v: WOS
34. [1.1] LI, Hui-Min - HUANG, Jun - TANG, Hui - MA, Dan-Le - ZHANG, Xue-Feng - YANG, Ling-Ling - CHEN, Jian-Xin. Compact Broadband Filtering Differential Dielectric Resonator Antenna for Dual-Polarized Applications. In *IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS*, 2024, vol. 23, no. 1, pp. 384-388. ISSN 1536-1225. Dostupné na: <https://doi.org/10.1109/LAWP.2023.3325411>, Registrované v: WOS
35. [1.1] LI, Meiling - MEI, Jinyao - YANG, Xue-Xia - ZENG, Dan - YI, Zixuan. Isolation Enhancement Based on Metasurface for Dual-Band E/H-Plane Coupled Antenna Array. In *IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS*, 2024, vol. 23, no. 7, pp. 2234-2238. ISSN 1536-1225. Dostupné na: <https://doi.org/10.1109/LAWP.2024.3386677>, Registrované v: WOS
36. [1.1] LI, Mengjie - CHEN, Jing - LI, Tongwei - KANG, Mengshuo - WANG, Xinxin - LI, Haisheng - JU, Weiwei. Ohmic contact in two-dimensional WS₂/Hf₂CX₂ (X = F/OH) and WS₂/ graphene/Hf₂C heterojunctions. In *PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES*, 2024, vol. 158, no., art. no. 115883. ISSN 1386-9477. Dostupné na: <https://doi.org/10.1016/j.physe.2023.115883>, Registrované v: WOS
37. [1.1] LI, Tong - LIANG, Xiangnan - BAO, Chengqing - HUANG, Pan - HE, Qian - SONG, Guofeng. A bidirectional broadband multifunctional terahertz device based on vanadium dioxide. In *INFRARED PHYSICS & TECHNOLOGY*, 2024, vol. 141, no., art. no. 105465. ISSN 1350-4495. Dostupné na: <https://doi.org/10.1016/j.infrared.2024.105465>, Registrované v: WOS
38. [1.1] LI, Xuanjing - FENG, Rui - TAN, Quilin - YI, Jianjia - WANG, Shixiong - HE, Feng - BUROKUR, Shah Nawaz. Additively-Manufactured Broadband Metamaterial-Based Luneburg Lens for Flexible Beam Scanning. In *MATERIALS*, 2024, vol. 17, no. 12, art. no. 2847. Dostupné na: <https://doi.org/10.3390/ma17122847>, Registrované v: WOS
39. [1.1] LI, Yan - WU, Yunxi - ZHANG, Ling - LI, Da - YU, Guoliang - QIU, Yang - ZHOU, Haomiao - LI, Erping. Design and analysis of ultra-wideband miniaturized metamaterial absorbers for radiation suppression. In *JOURNAL OF PHYSICS D-APPLIED PHYSICS*, 2024, vol. 57, no. 39, art. no. 395101. ISSN 0022-3727. Dostupné na: <https://doi.org/10.1088/1361-6463/ad59b1>, Registrované v: WOS
40. [1.1] LIU, Yixin - LI, Chenxia - FANG, Bo - CHEN, Liang - XU, Jianfeng - LIU, Fuhai - XU, Lizhen - LI, Xiao - TANG, Ying - HONG, Zhi - JING, Xufeng. Research Progress in Tunable Metamaterial Absorbers. In *ADVANCED PHOTONICS RESEARCH*, 2024, vol. 5, no. 2. ISSN 2699-9293. Dostupné na: <https://doi.org/10.1002/adpr.202300258>, Registrované v: WOS
41. [1.1] LIU, Yueyang - DONG, Tian - QIN, Xu - LUO, Weijia - LENG, Ning - HE, Yujing - YUAN, Yong - BAI, Ming - SUN, Jingbo - ZHOU, Ji - LI, Yue - LI, Yang. High-permittivity ceramics enabled highly homogeneous zero-index metamaterials for high-directivity antennas and beyond. In *ELIGHT*, 2024, vol. 4, no. 1, art. no. 4. ISSN 2097-1710. Dostupné na: <https://doi.org/10.1186/s43593-023-00059-x>, Registrované v: WOS
42. [1.1] LV, Qi - CHEN, Yuhua - YU, Songlin - ZHOU, Xiao - WEI, Yaxing - LI, Ling - WANG, Jijun - LI, Bingzhen. Quad-band bidirectional metasurface microwave absorber with a patchwork of circular-patch resonators. In

MATERIALS TODAY COMMUNICATIONS, 2024, vol. 38, no., art. no. 108336.
Dostupné na: <https://doi.org/10.1016/j.mtcomm.2024.108336>, Registrované v: WOS

43. [1.1] LV, Zhenhuan - YANG, Wenqiang - YAO, Li - CHEN, Xiang - ZHOU, Junyang - LI, Ruoyu - MEI, Hui - CHENG, Laifei - ZHANG, Litong. Electromagnetic response mechanism of BaTiO₃-based metamaterials: Transition between microwave absorption and shielding capacity. In ADDITIVE MANUFACTURING, 2024, vol. 95, no., art. no. 104558. ISSN 2214-8604. Dostupné na: <https://doi.org/10.1016/j.addma.2024.104558>, Registrované v: WOS
44. [1.1] MEI, Ran - XU, Yadong - GAO, Lei - XU, He-Xiu - LAI, Yun - LUO, Jie. Skin Effect of Electromagnetic Flux in Anisotropic Zero-Index Metamaterials. In ADVANCED OPTICAL MATERIALS, 2024, vol. 12, no. 33. ISSN 2195-1071. Dostupné na: <https://doi.org/10.1002/adom.202401569>, Registrované v: WOS
45. [1.1] MODI, Keshav Samrat - SINGH, Satya Pratap - SINHA, Ravindra Kumar - TIWARI, Umesh. Flexible Metal-Dielectric metasurface for 3-Tesla MRI image enhancement. In JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, 2024, vol. 590, no., art. no. 171650. ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2023.171650>, Registrované v: WOS
46. [1.1] MUNUSAMY, Raja - RAO, Jayanth - VASUDEVAN, Kokila - CHATURVEDI, Sudhir Kumar. Enhanced-design Approach for Optimum Radar Wave Absorption. In JOURNAL OF AERONAUTICS ASTRONAUTICS AND AVIATION, 2024, vol. 56, no. 1, pp. 35-41. ISSN 1990-7710. Dostupné na: [https://doi.org/10.6125/JoAAA.202403_56\(1\).04](https://doi.org/10.6125/JoAAA.202403_56(1).04), Registrované v: WOS
47. [1.1] NIHARIKA, Neha - SINGH, Sangeeta. Theoretical analysis of InAs based Bi-tunable narrow band terahertz perfect absorber for thermal sensing application. In MICRO AND NANOSTRUCTURES, 2024, vol. 194, no., art. no. 207936. Dostupné na: <https://doi.org/10.1016/j.micrna.2024.207936>, Registrované v: WOS
48. [1.1] NITAS, Michalis - KAFESAKI, Maria - ARSLANAGIC, Samel. Dispersion diagram reconstruction of effectively bianisotropic composite periodic media. In EPJ APPLIED METAMATERIALS, 2024, vol. 11, no., art. no. 10. ISSN 2272-2394. Dostupné na: <https://doi.org/10.1051/epjam/2024008>, Registrované v: WOS
49. [1.1] NOBRE, Francisco D. M. - DE SOUSA, Thayana M. L. - CAMPOS, Antonio L. P. S. - DA SILVA, Mauricio W. B. Multifunctional Metasurface with PIN Diode Application Featuring Absorption, Polarization Conversion, and Transmission Functions. In MICROMACHINES, 2024, vol. 15, no. 11, art. no. 1344. Dostupné na: <https://doi.org/10.3390/mi15111344>, Registrované v: WOS
50. [1.1] PADILLA, Willie J. - DENG, Yang - KHATIB, Omar - TAROKH, Vahid. Fundamental absorption bandwidth to thickness limit for transparent homogeneous layers. In NANOPHOTONICS, 2024, vol. 13, no. 9, pp. 1623-1629. ISSN 2192-8606. Dostupné na: <https://doi.org/10.1515/nanoph-2023-0920>, Registrované v: WOS
51. [1.1] PENG, Jinpeng - WANG, Shaomeng - LIANG, Bingyang - WEN, Qiye - SUN, Chengli - LI, Kang - ZHANG, Xiaosheng - ZHANG, Yi. Review of micro and nano scale 3D printing of electromagnetic metamaterial absorbers: mechanism, fabrication, and functionality. In VIRTUAL AND PHYSICAL PROTOTYPING, 2024, vol. 19, no. 1, art. no. e2378937. ISSN 1745-2759. Dostupné na: <https://doi.org/10.1080/17452759.2024.2378937>, Registrované v: WOS
52. [1.1] PENG, Tian - HUANG, Wuyin - ZHOU, Xiangyu - YANG, Lixia. Dual-Frequency Anechoic Chamber Constructed With the Spatially Arranged Absorbing Units. In IEEE ANTENNAS AND WIRELESS PROPAGATION

LETTERS, 2024, vol. 23, no. 10, pp. 2890-2894. ISSN 1536-1225. Dostupné na: <https://doi.org/10.1109/LAWP.2024.3413198>, Registrované v: WOS

53. [1.1] QI, Yunping - WEN, Yujiao - CHEN, Haowen - WANG, Xiangxian. Dynamically tunable terahertz quadruple-function absorber based on a hybrid configuration of graphene and vanadium dioxide. In NANOTECHNOLOGY, 2024, vol. 35, no. 9, art. no. 095202. ISSN 0957-4484. Dostupné na: <https://doi.org/10.1088/1361-6528/ad0c76>, Registrované v: WOS

54. [1.1] QIN, Feng - ZHANG, Jie - DRINKWATER, Bruce W. A Manufacturability-Driven Method for Designing Metamaterial Focusing Acoustical Lenses. In ADVANCED ENGINEERING MATERIALS, 2024, vol. 26, no. 3. ISSN 1438-1656. Dostupné na: <https://doi.org/10.1002/adem.202301832>, Registrované v: WOS

55. [1.1] RAZA, Mohsin - LI, Xiaoman - MAO, Chenlu - LIU, Fenghua - HE, Hongbo - WU, Weiping. A Polarization-Insensitive, Vanadium Dioxide-Based Dynamically Tunable Multiband Terahertz Metamaterial Absorber. In MATERIALS, 2024, vol. 17, no. 8, art. no. 1757. Dostupné na: <https://doi.org/10.3390/ma17081757>, Registrované v: WOS

56. [1.1] REN, Qiang - CAO, Heng - LIU, Qing Huo. Novel Efficient Discontinuous Galerkin Time-Domain Modeling of Dispersive Chiral Metamaterials via Media Homogenization. In IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, 2024, vol. 72, no. 9, pp. 5218-5227. ISSN 0018-9480. Dostupné na: <https://doi.org/10.1109/TMTT.2024.3367786>, Registrované v: WOS

57. [1.1] REN, Yang - CUI, Wei - LI, Zhenxiong - ZHANG, Lei - YANG, Zhimin - LU, Shaojun - HUO, Yashan - WU, Xiongxiang - LI, Gang - BAI, Lang - ZHAO, Ye - HE, Zhihui. Tunable broadband absorbers with ultra-high thermal emissivity for the mxene/ti-based metamaterial. In RENEWABLE ENERGY, 2024, vol. 231, no., art. no. 120877. ISSN 0960-1481. Dostupné na: <https://doi.org/10.1016/j.renene.2024.120877>, Registrované v: WOS

58. [1.1] REN, Yang - CUI, Wei - YANG, Zhimin - XIONG, Bowen - ZHANG, Lei - LI, Zhenxiong - LU, Shaojun - HUO, Yashan - WU, Xiongxiang - LI, Gang - BAI, Lang - HE, Zhihui. Ultra-broadband and wide-angle solar absorber for the All-MXene grating metamaterial. In OPTICAL MATERIALS, 2024, vol. 149, no., art. no. 115073. ISSN 0925-3467. Dostupné na: <https://doi.org/10.1016/j.optmat.2024.115073>, Registrované v: WOS

59. [1.1] RUAN, Haifeng - LI, Dong. Band gap characteristics of bionic acoustic metamaterials based on spider web. In ENGINEERING STRUCTURES, 2024, vol. 308, no., art. no. 118003. ISSN 0141-0296. Dostupné na: <https://doi.org/10.1016/j.engstruct.2024.118003>, Registrované v: WOS

60. [1.1] SAHA, Arun K. - KELLEY, Ryan E. Frequency Suppression by Metamaterial. In SOUTHEASTCON 2024 : IEEE SoutheastCon Conference on Engineering the Future, 2024, vol., no., pp. 865-866. ISSN 1091-0050. Dostupné na: <https://doi.org/10.1109/SOUTHEASTCON52093.2024.10500086>, Registrované v: WOS

61. [1.1] SARASWAT, Ritesh Kumar - KUMAR, Mithilesh. A Hybrid Fractal Metamaterial Antenna for Wireless Applications with Gain Enhancement. In IETE JOURNAL OF RESEARCH, 2024, vol. 70, no. 3, pp. 2318-2334. ISSN 0377-2063. Dostupné na: <https://doi.org/10.1080/03772063.2023.2185296>, Registrované v: WOS

62. [1.1] SARASWAT, Ritesh Kumar - KUMAR, Mithilesh. Gain Enhancement of Metamaterial-Inspired Multiband Antenna for Wireless Applications. In IETE JOURNAL OF RESEARCH, 2024, vol. 70, no. 3, pp. 2380-2399. ISSN 0377-2063.

Dostupné na: <https://doi.org/10.1080/03772063.2023.2187890>, Registrované v: WOS

63. [1.1] SUN, Cong - LI, Jiayu. Analysis of Dielectric Properties of Inhomogeneous Anisotropic Dye-Coated Nanoparticles. In *PLASMONICS*, 2024, vol. 19, no. 1, pp. 287-300. ISSN 1557-1955. Dostupné na:

<https://doi.org/10.1007/s11468-023-01964-0>, Registrované v: WOS

64. [1.1] SUN, Qing-yin - QIN, Chu - ZHAI, Yu-fei - YU, Hao - WANG, Min. A Generalized Microwave Absorption Criterion of Two-Port Networks for Electromagnetic Interference Shielding. In *ADVANCED ELECTRONIC MATERIALS*, 2024, vol. 10, no. 7. ISSN 2199-160X. Dostupné na:

<https://doi.org/10.1002/aelm.202300856>, Registrované v: WOS

65. [1.1] TANG CHING SENG, Joseph - JIAT TIANG, Jun - MUHAMMAD, Surajo - CHIONG LO, Yew. Investigation and Enhancement of Radio Frequency Signal Losses of Glassy Window. In *IEEE ACCESS*, 2024, vol. 12, no., pp. 141878-141889. ISSN 2169-3536. Dostupné na:

<https://doi.org/10.1109/ACCESS.2024.3469631>, Registrované v: WOS

66. [1.1] THIRUPATHAIAH, Kola - QASYMEH, Montasir. A Nanoplasmonic Directional Coupler Utilizing a Backed Conductor on Dielectric Substrate With Finite Width. In *IEEE JOURNAL OF QUANTUM ELECTRONICS*, 2024, vol. 60, no. 6, art. no. 7200209. ISSN 0018-9197. Dostupné na:

<https://doi.org/10.1109/JQE.2024.3485503>, Registrované v: WOS

67. [1.1] WANG, Chunyong. Design, calculation, and measurement of a single resonant mode metamaterial absorber and its tunable performance. In *OPTICAL MATERIALS*, 2024, vol. 148, no., art. no. 114810. ISSN 0925-3467. Dostupné na:

<https://doi.org/10.1016/j.optmat.2023.114810>, Registrované v: WOS

68. [1.1] WANG, Pan - HAN, Wenlong - TAO, Hui - ZHANG, Canran - XU, Yijing - WANG, Qilong. Multifunctional Graphene Metasurface for Highly Flexible Control of Microwave Absorption. In *ACS APPLIED MATERIALS & INTERFACES*, 2024, vol. 16, no. 2, pp. 2649-2658. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.3c16127>, Registrované v: WOS

69. [1.1] WANG, Wei - CHEN, Rongquan - CHU, Xixi - SONG, Yuqing - HU, Xudong - XIE, Zongquan - LIU, Jinbiao - CHEN, Ming. A wavefront processing coding metasurface with independent dynamic control of circularly and linearly polarized. In *PHYSICA B-CONDENSED MATTER*, 2024, vol. 695, no., art. no. 416519. ISSN 0921-4526. Dostupné na:

<https://doi.org/10.1016/j.physb.2024.416519>, Registrované v: WOS

70. [1.1] WEI, Qian - WU, Jiaju - JIANG, Jie - GUO, Zhiwei - SUN, Yong - LI, Yunhui - CHEN, Yuguang - JIANG, Haitao - YANG, Yaping - CHEN, Hong. Chirality-dependent topological edge states in photonic metacrystal. In *OPTICS LETTERS*, 2024, vol. 49, no. 15, pp. 4262-4265. ISSN 0146-9592. Dostupné na:

<https://doi.org/10.1364/OL.529699>, Registrované v: WOS

71. [1.1] WU, Wei - HUANG, Ge - ZHONG, Min. Design and validate a wide-bandwidth, high-performance tunable metamaterial based on cultural-innovation shell materials and its sensing applications. In *MATERIALS RESEARCH EXPRESS*, 2024, vol. 11, no. 3, art. no. 035802. Dostupné na:

<https://doi.org/10.1088/2053-1591/ad3467>, Registrované v: WOS

72. [1.1] XIANG, Gaoli - LU, Zhigang - GAO, Peng - DUAN, Jingrui - ZHENG, Yuan - WANG, Zhanliang - WANG, Shaomeng - GONG, Huarong - GONG, Yubin. High-Order Mode Suppression in Traveling Wave Tube Based on Conformally Loaded Metasurface Filter. In *IEEE ELECTRON DEVICE LETTERS*, 2024, vol. 45, no. 11, pp. 2189-2192. ISSN 0741-3106. Dostupné na:

<https://doi.org/10.1109/LED.2024.3455336>, Registrované v: WOS

73. [1.1] XING, Zhongyang - LIAO, Jiahui - XU, Zhongjie - CHENG, Xiang'ai - ZHANG, Jiangbin. *The Design of Highly Reflective All-Dielectric Metasurfaces Based on Diamond Resonators*. In *PHOTONICS*, 2024, vol. 11, no. 11, art. no. 1015. Dostupné na: <https://doi.org/10.3390/photonics11111015>, Registrované v: WOS
74. [1.1] XU, Haifeng - CHENG, Jierong - HUANG, Qian - LUO, Ming - LI, Diannan - ZHU, Dazhao - ZHAN, Gangyao - ZHENG, Qiaoyun - ZHANG, Yu - SHAO, Jingzhu - WU, Chongzhao. *Flexible broadband metamaterial absorber in long-wave infrared with visible transparency fabricated by laser direct writing*. In *OPTICS LETTERS*, 2024, vol. 49, no. 1, pp. 89-92. ISSN 0146-9592. Dostupné na: <https://doi.org/10.1364/OL.509760>, Registrované v: WOS
75. [1.1] XU, Hao - WU, Wen-Jing - ZHAO, Wen-Sheng - TANG, Wenxuan - SUN, Lingling. *Ultrasensitive Edible Oil Sensor Based on Spiral SLSP Combined With Stepped Structure*. In *IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT*, 2024, vol. 73, no., art. no. 6003209. ISSN 0018-9456. Dostupné na: <https://doi.org/10.1109/TIM.2024.3368483>, Registrované v: WOS
76. [1.1] XU, Leyao - LIU, Jinchang - SHAO, Cong - LI, Hua - MA, WeiQing - YAN, Junfeng - ZHANG, Yunyao - DAI, Yang - LEI, Xiaoyi - LIAO, Chenguang - ZHANG, Zhiyong - ZHAO, Wu - LU, Jing - ZHANG, Han. *Performance limits exploration of sub-5nm monolayer germanane transistors: A first-principle quantum transport simulation*. In *JOURNAL OF APPLIED PHYSICS*, 2024, vol. 135, no. 13, art. no. 134303. ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/5.0192389>, Registrované v: WOS
77. [1.1] XU, Ruofeng - MA, Xingyu - KONG, Xianglin - ZHANG, Shengjun - LIU, Jiaqi - ZHAO, Lei. *An Ultra-wideband Metamaterial Absorber with Angular Stability*. In *APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL*, 2024, vol. 39, no. 8, pp. 675-682. ISSN 1054-4887. Dostupné na: <https://doi.org/10.13052/2024.ACES.J.390802>, Registrované v: WOS
78. [1.1] YANG, Ruihan - LIU, Zhimin - LUO, Xin - JI, Cheng - YANG, Guangxin - XIE, Yadong. *Terahertz ultra-broadband and multi-frequency narrowband perfect absorber based on compound metamaterial*. In *MODERN PHYSICS LETTERS B*, 2024, vol. 38, no. 33. ISSN 0217-9849. Dostupné na: <https://doi.org/10.1142/S0217984924503226>, Registrované v: WOS
79. [1.1] YANG, Yiting - YU, Wen Ming - CUI, Tie Jun. *An efficient parameter-retrieval-based surrogate-assisted optimization of on-platform honeycomb absorbing structures*. In *JOURNAL OF PHYSICS D-APPLIED PHYSICS*, 2024, vol. 57, no. 22, art. no. 225002. ISSN 0022-3727. Dostupné na: <https://doi.org/10.1088/1361-6463/ad2d24>, Registrované v: WOS
80. [1.1] YIN, Jia-yuan - CAO, Xin-yue - LI, Feng-xia - DENG, Jing-ya. *Dispersion control and radiation based on glide-symmetric spoof surface plasmon polaritons*. In *OPTICS EXPRESS*, 2024, vol. 32, no. 14, pp. 24209-24221. ISSN 1094-4087. Dostupné na: <https://doi.org/10.1364/OE.517345>, Registrované v: WOS
81. [1.1] ZHANG, Yeqi - ZHAO, Zixu - XIA, Zhou - WU, Hongyu - GUO, Pengzhen - LI, Lifang. *Near-infrared metamaterials for tunable wide-band perfect reflection*. In *OPTICAL MATERIALS*, 2024, vol. 152, no., art. no. 115450. ISSN 0925-3467. Dostupné na: <https://doi.org/10.1016/j.optmat.2024.115450>, Registrované v: WOS
82. [1.1] ZHANG, Yongfeng - ZHU, Ziyuan - SHENG, Zhehao - HE, Yijie - WANG, Gang. *Sound absorption properties of the metamaterial curved microperforated panel*. In *INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES*, 2024, vol. 268, no., art. no. 109003. ISSN 0020-7403. Dostupné na:

- <https://doi.org/10.1016/j.ijmecsci.2024.109003>, Registrované v: WOS
83. [1.1] ZHAO, Majuan - ZHENG, Jianhua - WANG, Xiaoxu - ZHANG, Jiajing - ZHANG, Diantang. Gradient-structured SiCf/SiC hybrid woven metamaterials with superior broadband absorption and high-load bearing. In CERAMICS INTERNATIONAL, 2024, vol. 50, no. 23, pp. 49400-49411. ISSN 0272-8842. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.09.284>, Registrované v: WOS
84. [1.1] ZHU, Yuxin - NIU, Huijuan - LI, Yuanhao - LV, Taiguo - LI, Hefu - FAN, Xinye - BAI, Chenglin. Tunable metamaterial broadband perfect absorber based on double-layer graphene nanofilm. In OPTICAL MATERIALS, 2024, vol. 149, no., art. no. 115085. ISSN 0925-3467. Dostupné na: <https://doi.org/10.1016/j.optmat.2024.115085>, Registrované v: WOS
85. [1.1] ZHU, Zitong - GAO, Zehua - BI, Ke - LAN, Chuwen. Large-Area, Broadband, and Flexible Terahertz Antireflection Thin Film Based on an All-Dielectric Metasurface. In IEEE PHOTONICS JOURNAL, 2024, vol. 16, no. 6, art. no. 4601006. ISSN 1943-0655. Dostupné na: <https://doi.org/10.1109/JPHOT.2024.3473309>, Registrované v: WOS
86. [1.1] ZOU, Wei - ZHONG, Changqing - HONG, Lujun - LEI, Jiangtao - SHEN, Yun - DENG, Xiaohua - CHEN, Jing - GUO, Tianjing. Switchable Vanadium Dioxide Metasurface for Terahertz Ultra-Broadband Absorption and Reflective Polarization Conversion. In MICROMACHINES, 2024, vol. 15, no. 8, art. no. 967. Dostupné na: <https://doi.org/10.3390/mi15080967>, Registrované v: WOS
87. [1.2] AKKAOUI, Hicham - JEBBOR, Nawfal. Influence of structural parameters on resonance frequency of a split-ring resonator. In 2024 International Conference on Circuit Systems and Communication Iccsc 2024, 2024-01-01, pp. ISBN [9798350365306]. Dostupné na: <https://doi.org/10.1109/ICCSC62074.2024.10617392>, Registrované v: SCOPUS
88. [1.2] LI, Li - MU, Weidong - YUAN, Hang - FANG, Xiaoxing - WANG, Yi - CAO, Qunsheng. A novel flexible terahertz metamaterial absorber for sensing applications. In 2024 IEEE International Conference on Computational Electromagnetics Iccem 2024 Proceedings, 2024-01-01, pp. ISBN [9798350383317]. Dostupné na: <https://doi.org/10.1109/ICCEM60619.2024.10559112>, Registrované v: SCOPUS
89. [1.2] MALATHONG, Kritthanit - KONPANG, Jessada - KONGJAREANSUK, Sayree - AKKARAEKTHALIN, Prayoot - CHUDPOOTI, Nonchanutt - THITIMAHATTHANAKUSOL, Phatsakul. Exploring CST Simulation Techniques for TEM Mode and Unit Cell Analysis to Determine Refractive Index. In Proceeding 12th International Electrical Engineering Congress Smart Factory and Intelligent Technology for Tomorrow Ieecon 2024, 2024-01-01, pp. ISBN [9798350383591]. Dostupné na: <https://doi.org/10.1109/IEECON60677.2024.10537841>, Registrované v: SCOPUS
90. [1.2] PARK, Jusung - PARK, Seungkyun - KIM, Kyuho - YU, Sunkyu - PARK, Namkyoo. Improved Retrieval of Effective Parameters in Hyperbolic Metamaterials for Oblique Incidence. In 16th Pacific Rim Conference on Lasers and Electro Optics CLEO PR 2024, 2024-01-01, pp. ISBN [9798350372076]. Dostupné na: <https://doi.org/10.1109/CLEO-PR60912.2024.10676523>, Registrované v: SCOPUS
91. [1.2] WANG, Jieping. Multi-band absorber based on metal-silicon metasurface for sensing application. In Proceedings of SPIE the International Society for Optical Engineering, 2024-01-01, 13066, pp. ISBN [9781510674509]. ISSN 0277786X. Dostupné na: <https://doi.org/10.1117/12.3025162>, Registrované

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SMUTOK, Oleh** - KAVETSKYY, Taras - PROKOPIV, Tetiana - SERKIZ, Roman - ŠAUŠA, Ondrej - NOVÁK, Ivan - ŠVAJDLENKOVÁ, Helena - MATĚKO, Igor - GONCHAR, Mikhailo - KATZ, Evgeny**. Biosensor based on peroxidase-mimetic nanozyme and lactate oxidase for accurate L-lactate analysis in beverages. In *Biosensors*, 2022, vol. 12, no. 11, art. no. 1042 [11] p. (2021: 5.743 - IF, Q1 - JCR, 0.786 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2079-6374. Dostupné na: <https://doi.org/10.3390/bios12111042>

Citácie:

1. [1.1] AYNİ, Ezgi - DUNYA, Hamza - YILDIRIM-TIRGİL, Nimet. Hollow Carbon Nanorods Modified Screen Printed Electrodes for Sensitive Lactate Biosensing. In *CHEMELECTROCHEM*, 2024, vol. 11, no. 15. ISSN 2196-0216. Dostupné na: <https://doi.org/10.1002/celc.202400331>, Registrované v: WOS
2. [1.1] BIRGUSOVA, Eliska - BYTESNIKOVA, Zuzana - ASHRAFI, Amirmansoor - SVEC, Pavel - ADAM, Vojtech - RICHTERA, Lukas. ELECTROCHEMICAL SENSOR BASED ON ZnONPs WITH MWCNTs FOR DETERMINATION OF MALIC ACID. In *15TH INTERNATIONAL CONFERENCE ON NANOMATERIALS-RESEARCH & APPLICATION, NANOCON 2023 : 15th International Conference on Nanomaterials-Research & Application (NANOCON)*, 2024, vol., no., pp. 284-289. ISSN 2694-930X. Dostupné na: <https://doi.org/10.37904/nanocon.2023.4798>, Registrované v: WOS
3. [1.1] CHENG, Xingliang - LIU, Shuojian - HU, Yuling. Recent Advances in Nanozyme Sensors Based on Metal-Organic Frameworks and Covalent-Organic Frameworks. In *BIOSENSORS-BASEL*, 2024, vol. 14, no. 11, art. no. 520. Dostupné na: <https://doi.org/10.3390/bios14110520>, Registrované v: WOS
4. [1.1] DU, Yipu - REITEMEIER, Julius - JIANG, Qiang - BAPPY, Md Omarsany - BOHN, Paul W. - ZHANG, Yanliang. Hybrid Printing of Fully Integrated Microfluidic Devices for Biosensing. In *SMALL*, 2024, vol. 20, no. 5. ISSN 1613-6810. Dostupné na: <https://doi.org/10.1002/sml.202304966>, Registrované v: WOS
5. [1.1] GE, Litao - CHEN, Yujia - GENG, Baokang - CHU, Xiang - JIANG, Ruize - WANG, Xiao - QIN, Xinxin - LI, Wei - SONG, Shuyan. Synthesis of Mo-Pt/CeO₂ Dual Single-Atom Nanozyme for Multifunctional Biochemical Detection Applications. In *SMALL*, 2024, vol. 20, no. 47, art. no. 2404608. ISSN 1613-6810. Dostupné na: <https://doi.org/10.1002/sml.202404608>, Registrované v: WOS
6. [1.1] GHAANI, Masoud - AZIMZADEH, Mostafa - BUYUKTAS, Duygu - CARULLO, Daniele - FARRIS, Stefano. Electrochemical Sensors in the Food Sector: A Review. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*, 2024, vol. 72, no. 44, pp. 24170-24190. ISSN 0021-8561. Dostupné na: <https://doi.org/10.1021/acs.jafc.4c09423>, Registrované v: WOS
7. [1.1] LEE, Sanghun - MIN, Kiyoon - JUNG, Junyoung - YI, Jongdarm - TAE, Giyoung - LEE, Jae Young. Implantable conductive polymer bioelectrode with enzymatic antioxidant activity for enhanced tissue responses and in vivo performance. In *CHEMICAL ENGINEERING JOURNAL*, 2024, vol. 494, no., art. no. 152861. ISSN 1385-8947. Dostupné na: <https://doi.org/10.1016/j.cej.2024.152861>, Registrované v: WOS
8. [1.1] XU, Manqiang - LU, Changwen - HAN, Wei. Application of novel label-free amperometric biosensing platform for determination of lactate in saliva samples during sport practice. In *ALEXANDRIA ENGINEERING JOURNAL*, 2024, vol. 100, no., pp. 176-180. ISSN 1110-0168. Dostupné na: <https://doi.org/10.1016/j.aej.2024.05.049>, Registrované v: WOS

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- WOJNAROWSKA-NOWAK, Renata - ŠAUŠA, Ondrej - NOVÁK, Ivan - BEREK, Dušan - MELMAN, Artem - GONCHAR, Mykhailo. New micro/nanocomposite with peroxidase-like activity in construction of oxidases-based amperometric biosensors for ethanol and glucose analysis. In *Analytica Chimica Acta*, 2021, vol. 1143, p. 201-209. (2020: 6.558 - IF, Q1 - JCR, 1.403 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0003-2670. Dostupné na: <https://doi.org/10.1016/j.aca.2020.11.052>

Citácie:

1. [1.1] MAGAR, Hend S. - EL NAHRAWY, Amany M. - HASSAN, Rabeay Y. A. - ABOU HAMMAD, Ali B. Nanohexagonal iron barium titanate nanoparticles surface-modified NiFe₂O₄ composite screen-printed electrode for enzymatic glucose monitoring. In *RSC ADVANCES*, 2024, vol. 14, no. 47, pp. 34948-34963. Dostupné na: <https://doi.org/10.1039/d4ra06689h>, Registrované v: WOS
2. [1.1] MARCHIANO, Verdiana - TRICASE, Angelo - MACCHIA, Eleonora - BOLLELLA, Paolo - TORSI, Luisa. Self-powered wearable biosensor based on stencil-printed carbon nanotube electrodes for ethanol detection in sweat. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*, 2024, vol. 416, no. 24, pp. 5303-5316. ISSN 1618-2642. Dostupné na: <https://doi.org/10.1007/s00216-024-05467-7>, Registrované v: WOS
3. [1.2] CAO, Yonglian - TANG, Jialing - RAO, Junyue - YANG, Maojie - CAO, Yunrong - HAN, Guoquan. Advances in magnetoelastic biosensors for food detection. In *Food and Fermentation Industries*, 2024-10-15, 50, 19, pp. 371-380. ISSN 0253990X. Dostupné na: <https://doi.org/10.13995/j.cnki.11-1802/ts.038297>, Registrované v: SCOPUS
4. [1.2] XI, Liping - JIANG, Chenrui - WANG, Fangqi - ZHANG, Xiaoni - HUO, Dezhi - SUN, Meiling - DRAMOU, Pierre - HE, Hua. Recent Advances in Construction and Application of Metal-Nanozymes in Pharmaceutical Analysis. In *Critical Reviews in Analytical Chemistry*, 2024-01-01, 54, 6, pp. 1661-1679. ISSN 10408347. Dostupné na: <https://doi.org/10.1080/10408347.2022.2128632>, Registrované v: SCOPUS

ADCA773 SOLOMONS, Naomi R.* - FLETCHER, Alasdair I.* - AKTAS, Djeylan - VENKATACHALAM, Natarajan - WENGEROWSKY, Sören - LONCARIC, Martin - NEUMANN, Sebastian P. - LIU, Bo - SAMEC, Željko - STIPCEVIC, Mario - URSIN, Rupert - PIRANDOLA, Stefano - RARITY, John G. - JOSHI, Siddarth Koduru. Scalable Authentication and Optimal Flooding in a Quantum Network. In *PRX Quantum*, 2022, vol. 3, no. 2, art. no. 020311. (2021: 7.514 - IF, Q1 - JCR, karentované - CCC). (2022 - Current Contents). ISSN 2691-3399. Dostupné na: <https://doi.org/10.1103/PRXQuantum.3.020311>

Citácie:

1. [1.1] CHANG, Kai-Chi - SARIHAN, Murat Can - CHENG, Xiang - ZHANG, Zheshen - WONG, Chee Wei. Large-alphabet time-bin quantum key distribution and Einstein-Podolsky-Rosen steering via dispersive optics. In *QUANTUM SCIENCE AND TECHNOLOGY*, 2024, vol. 9, no. 1, art. no. 015018. ISSN 2058-9565. Dostupné na: <https://doi.org/10.1088/2058-9565/ad0f6f>, Registrované v: WOS
2. [1.1] CIRIGLIANO, Lorenzo - BROSCO, Valentina - CASTELLANO, Claudio - CONTI, Claudio - PILOZZI, Laura. Optimal quantum key distribution networks: capacitance versus security. In *NPJ QUANTUM INFORMATION*, 2024, vol. 10, no. 1, art. no. 44. Dostupné na: <https://doi.org/10.1038/s41534-024-00828-7>, Registrované v: WOS
3. [1.1] KIKTENKO, Evgeniy O. - TAYDUGANOV, Andrey - FEDOROV, Aleksey K. Routing Algorithm Within the Multiple Non-Overlapping Paths'; Approach for

Quantum Key Distribution Networks. In *ENTROPY*, 2024, vol. 26, no. 12, art. no. 1102. Dostupné na: <https://doi.org/10.3390/e26121102>, Registrované v: WOS

4. [1.1] LI, He. A Quantum-Classical Codesign Framework for Security Enhanced Quantum Networks. In *2024 5TH INFORMATION COMMUNICATION TECHNOLOGIES CONFERENCE, ICTC 2024*, 2024, vol., no., pp. 76-81. Dostupné na: <https://doi.org/10.1109/ICTC61510.2024.10602299>, Registrované v: WOS

5. [1.2] ADHIKARI, Kiran - NÖTZEL, Janis - MA, Qian - DEPPE, Christian. Detecting dishonest parties in a network: A quantum walk based algorithm. In *European Wireless 2024 Ew 2024*, 2024-01-01, pp. 116-121. ISBN [9783800764969]., Registrované v: SCOPUS

ADCA774 SOMMA, R.D. - NAGAJ, Daniel - KIEFEROVÁ, M. Quantum speedup by quantum annealing. In *Physical Review Letters*, 2012, vol. 109, no. 5, art. no. 050501. (2011: 7.370 - IF, Q1 - JCR, 6.314 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.109.050501>

Citácie:

1. [1.1] BANKS, Robert J. - BROWNE, Dan E. - Warburton, P. A. Rapid quantum approaches for combinatorial optimisation inspired by optimal state-transfer. In *QUANTUM*, 2024, vol. 8, no., art. no. 1253. ISSN 2521-327X., Registrované v: WOS

2. [1.1] BERGERAULT, Alexandre - FORTUNATO, Daniel - ABREU, Rui. Generation of Fixed Margin Binary Matrices Using Quantum Annealing. In *2024 IEEE INTERNATIONAL CONFERENCE ON QUANTUM COMPUTING AND ENGINEERING, QCE, VOL 2 : 2024 International Conference on Quantum Computing and Engineering*, 2024, vol., no., pp. 193-198. Dostupné na: <https://doi.org/10.1109/QCE60285.2024.10277>, Registrované v: WOS

3. [1.1] CHEN, Yibo - HUANG, Jun-Han - SUN, Yuhui - ZHANG, Yong - LI, Yuxiang - XU, Xun. Haplotype-resolved assembly of diploid and polyploid genomes using quantum computing. In *CELL REPORTS METHODS*, 2024, vol. 4, no. 5, art. no. 100754. ISSN 2667-2375. Dostupné na: <https://doi.org/10.1016/j.crmeth.2024.100754>, Registrované v: WOS

4. [1.1] DUNCAN, Callum W. Exact counterdiabatic driving in finite topological lattice models. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 24, art. no. 245421. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.245421>, Registrované v: WOS

5. [1.1] ELLINAS, Petros - CHEVALIER, Samuel - CHATZIVASILADIS, Spyros. A hybrid quantum-classical algorithm for mixed-integer optimization in power systems. In *ELECTRIC POWER SYSTEMS RESEARCH*, 2024, vol. 235, no., art. no. 110835. ISSN 0378-7796. Dostupné na: <https://doi.org/10.1016/j.epsr.2024.110835>, Registrované v: WOS

6. [1.1] FEINSTEIN, Natasha - FRY-BOURIAUX, Louis - BOSE, Sougato - Warburton, P. A. Effects of XX catalysts on quantum annealing spectra with perturbative crossings. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 4, art. no. 042609. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.042609>, Registrované v: WOS

7. [1.1] LI, Jie - LI, Zhenqiang - YAO, Long - WANG, Ke - LI, Jialin - LU, Yao - HU, Chuli. Optimisation of spatiotemporal context-constrained full-view area coverage deployment in camera sensor networks via quantum annealing. In *INTERNATIONAL JOURNAL OF GEOGRAPHICAL INFORMATION SCIENCE*, 2024, vol. 38, no. 9, pp. 1827-1855. ISSN 1365-8816. Dostupné na: <https://doi.org/10.1080/13658816.2024.2358045>, Registrované v: WOS

8. [1.1] LU, Chao - PILATO, Christian - BASU, Kanad. QHLS: An HLS Framework to Convert High-Level Descriptions to Quantum Circuits. In *IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS*, 2024, vol. 43, no. 10, pp. 3015-3026. ISSN 0278-0070. Dostupné na: <https://doi.org/10.1109/TCAD.2024.3391699>, Registrované v: WOS
9. [1.1] MORI, Yuichiro - KAWABATA, Shiro - MATSUZAKI, Yuichiro. How to experimentally evaluate the adiabatic condition for quantum annealing. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 8177. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-58286-2>, Registrované v: WOS
10. [1.1] SHINGU, Yuta - NIKUNI, Tetsuro - KAWABATA, Shiro - MATSUZAKI, Yuichiro. Quantum annealing with error mitigation. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 4, art. no. 042606. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.042606>, Registrované v: WOS
11. [1.1] TURKALJ, Ivica - ASSADSOLIMANI, Mohammad - BRAUN, Markus - HALFFMANN, Pascal - HEGEMANN, Niklas - KERSTAN, Sven - MACIEJEWSKI, Janik - SHARMA, Shivam - ZHOU, Yuanheng. Quadratic Unconstrained Binary Optimization Approach for Incorporating Solvency Capital into Portfolio Optimization. In *RISKS*, 2024, vol. 12, no. 2, art. no. 23. Dostupné na: <https://doi.org/10.3390/risks12020023>, Registrované v: WOS
12. [1.1] ZHAO, Runsheng - CHENG, Tao - WANG, Rui - FAN, Xingkui - MA, Hongyang. Artificial intelligence warm-start approach: optimizing the generalization capability of QAOA in complex energy landscapes. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 5, art. no. 053016. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad4629>, Registrované v: WOS
13. [1.2] WANG, Chao - WANG, Qi Di - HONG, Chun Lei - HU, Qiao Yun - PEI, Zhi. Quantum Annealing Public Key Cryptographic Attack Algorithm Based on D-Wave Advantage. In *Jisuanji Xuebao Chinese Journal of Computers*, 2024-05-01, 47, 5, pp. 1030-1044. ISSN 02544164. Dostupné na: <https://doi.org/10.11897/SP.J.1016.2024.01030>, Registrované v: SCOPUS

ADCA775 SOMOGYI, Bálint - DERIAN, René - ŠTICH, Ivan - GALI, Adam**. High-throughput study of compositions and optical properties in heavily co-doped silicon nanoparticles. In *Journal of Physical Chemistry C*, 2017, vol. 121, no. 49, p. 27741-27750. (2016: 4.536 - IF, Q1 - JCR, 1.964 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.7b09501>

Citácie:

1. [1.1] BUBENOV, S. S. - DOROFEEV, S. G. Doped Silicon Nanoparticles. A Review. In *DOKLADY CHEMISTRY*, 2024, vol. 514, no. 1, pp. 1-20. ISSN 0012-5008. Dostupné na: <https://doi.org/10.1134/S001250082460007X>, Registrované v: WOS

ADCA776 SOULIOTIS, G.A. - VESELSKÝ, Martin - GALANOPOULOS, S. - JANDEL, M. - KOHLEY, Z. - MAY, L.W. - SHETTY, D.V. - STEIN, B.C. - YENNELLO, J. Approaching neutron-rich nuclei toward the r-process path in peripheral heavy-ion collisions at 15 MeV/nucleon. In *Physical Review C*, 2011, vol. 84, no. 6, art. no. 064607. (2010: 3.416 - IF, 2.409 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.84.064607>

Citácie:

1. [1.1] LI, Cheng - LI, Tao - ZHANG, Xin-Rui - TIAN, Junlong - WANG, Ning - GUO, Chenchen - ZHANG, Feng-Shou. Inverse transfer mechanisms in multinucleon transfer reactions. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 4,

art. no. 044615. ISSN 2469-9985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.110.044615>, Registrované v: WOS

ADCA777

SOULIOTIS, G.A. - FOUNTAS, P.N. - VESELSKÝ, Martin - GALANOPOULOS, S. - KOHLEY, Z. - MCINTOSH, A. Isoscaling of heavy projectile residues and N/Z equilibration in peripheral heavy-ion collisions below the Fermi energy. In Physical Review C, 2014, vol. 90, no. 6, art. no. 064612. (2013: 3.881 - IF, Q1 - JCR, 2.584 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.90.064612>

Citácie:

1. [1.1] BALDESI, L. - BARLINI, S. - STEFANINI, A. A. - CAMAIANI, A. - PIANTELLI, S. - CASINI, G. - CIAMPI, C. - CINAUSERO, M. - CICERCHIA, M. - DELL'AQUILA, D. - DOMENICHETTI, L. - FABRIS, D. - FROSIN, C. - GOZZELINO, A. - LOMBARDO, I. - MARCHI, T. - MORETTO, S. - MENGARELLI, A. - OLMÍ, A. - PASQUALI, G. - SCOMPARIN, L. - VALDRE, S. - VANZAN, E. Performance of the antisymmetrized molecular dynamics transport model for low energy reactions: Comparison with experimental results for SUP18/SUPO+SUP12/SUPC at 16.7 MeV/nucleon. In PHYSICAL REVIEW C, 2024, vol. 109, no. 6, art. no. 064618. ISSN 2469-9985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.109.064618>, Registrované v: WOS

2. [1.1] CAMAIANI, A. - ALBA, R. - BALDESI, L. - BARLINI, S. - BINI, M. - BOIANO, A. - BONNET, E. - BORDERIE, B. - BOUGAULT, R. - BRUNO, M. - CASINI, G. - CHBIHI, A. - CIAMPI, C. - CICERCHIA, M. - CINAUSERO, M. - D'AGOSTINO, M. - DUENAS, J. - EDELBRUCK, P. - FABRIS, D. - FABLE, Q. - FRANKLAND, J. D. - FROSIN, C. - GRAMEGNA, F. - GRUYER, D. - HENRI, M. - HONG, B. - KIM, S. - KORDYASZ, A. - KOZIK, T. - KWEON, M. - NEINDRE, N. Le - LOMBARDO, I. - LOPEZ, O. - MAIOLINO, C. - MARCHI, T. - MAZUREK, K. - OLMÍ, A. - OTTANELLI, P. - PARLOG, M. - PASQUALI, G. - PIANTELLI, S. - POGGI, G. - RIVET, M. F. - REBILLARD-SOULIE, A. - ROSATO, E. - SALOMON, F. - STEFANINI, A. A. - TORTONE, G. - UPADHYAHYA, S. - VALDRE, S. Reviewing the experimental achievements of the early years of FAZIA at INFN-LNS. In EUROPEAN PHYSICAL JOURNAL PLUS, 2024, vol. 139, no. 12, art. no. 1134. ISSN 2190-5444. Dostupné na:

<https://doi.org/10.1140/epjp/s13360-024-05932-3>, Registrované v: WOS

ADCA778

SPASOVA, M. - WIEDWALD, U. - RAMCHAL, R. - FARLE, M. - JERGEL, Matej - MAJKOVÁ, Eva - LUBY, Štefan - SENDERÁK, Rudolf. Magnetization and Magnetic Anisotropy of Co/W Multilayers. In Physica status solidi B : basic solid state physics, 2001, vol. 225, no. 2, p. 449-457. ISSN 0370-1972. Dostupné na: [https://doi.org/10.1002/1521-3951\(200106\)225:2::AID-PSSB449o.0.CO;2-3](https://doi.org/10.1002/1521-3951(200106)225:2::AID-PSSB449o.0.CO;2-3)

Citácie:

1. [1.1] BONDA, A. - UBA, L. - UBA, S. - WAWRO, A. - MAZIEWSKI, A. All-optical study of the influence of Co and W stacking sequence on magnetization precession and damping and magnetic anisotropy in asymmetric Pt/(W,Co)/Pt heterostructures. In PHYSICAL REVIEW B, 2024, vol. 110, no. 18, art. no. 184416. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.110.184416>, Registrované v: WOS

ADCA779

STANKOV, S. - YUE, Y.Z. - MIGLIERINI, M. - SEPIOL, B. - SERGUEEV, I. - CHUMAKOV, A.I. - HU, L. - ŠVEC, Peter - RUFFER, R. Vibrational properties of nanograins and interfaces in nanocrystalline materials. In Physical Review Letters, 2008, vol. 100, no. 23, art. no. 235503. (2007: 6.944 - IF, Q1 - JCR, 5.950 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.100.235503>

Citácie:

1. [1.1] CAI, Wanwan - LU, Yongkuan - WANG, Chenxi - LI, Qingbiao - ZHENG, Yanmei. Aluminum/Graphene Thermal Interface Materials with Positive Temperature Dependence. In ACS APPLIED MATERIALS & INTERFACES, 2024, vol. 16, no. 26, pp. 33993-34000. ISSN 1944-8244. Dostupné na:

<https://doi.org/10.1021/acsami.4c06022>, Registrované v: WOS

STANKOVIĆ, Nenad K. - BODIK, Michal - ŠIFFALOVIČ, Peter - KOTLAR, Mario - MIČUŠÍK, Matej - ŠPITÁLSKY, Zdenko - DANKO, Martin - MILIVOJEVIĆ, Dušan D. - KLEINOVÁ, Angela - KUBAT, Pavel - CAPAKOVA, Zdenka - HUMPOLIČEK, Petr - LEHOCKY, Marian - TODOROVIĆ MARKOVIĆ, Biljana M. - MARKOVIĆ, Zoran M.**. Antibacterial and antibiofouling properties of light triggered fluorescent hydrophobic carbon quantum dots langmuir-blodgett thin films. In ACS Sustainable Chemistry & Engineering, 2018, vol. 6, no. 3, p. 4154-4163. (2017: 6.140 - IF, Q1 - JCR, 1.657 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 2168-0485. Dostupné na:

<https://doi.org/10.1021/acssuschemeng.7b04566>

Citácie:

1. [1.1] AHMED, Hanan B. - EMAM, Hossam E. - SHAHEEN, Tharwat I.

Fluorescent antimicrobial hydrogel based on fluorophore N-doped carbon dots originated from cellulose nanocrystals. In SCIENTIFIC REPORTS, 2024, vol. 14, no. 1, art. no. 29226. ISSN 2045-2322. Dostupné na:

<https://doi.org/10.1038/s41598-024-80222-7>, Registrované v: WOS

2. [1.1] AL-ANAZI, Menier. Gold versus platinum for chemical modification of carbon quantum dots from carboxymethyl cellulose: Tunable biomedical performance. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, 2024, vol. 261, no., art. no. 129830. ISSN 0141-8130.

Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2024.129830>, Registrované v: WOS

3. [1.1] AMOON, Hamidreza - MOGHADAM, Ayoub - HAJKARIM, Maryam Chalabi. Synthesis, characterization, and investigation of antibacterial activity of Novel CMC/CuO NPs/CQDs bionanocomposite coating. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, 2024, vol. 268, no., art. no. 131922. ISSN 0141-8130. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2024.131922>, Registrované v: WOS

4. [1.1] BIALOWAS, Wojciech - BOUDJEMAA, Rym - STEENKESTE, Karine - NYSSSEN, Pauline - HOEBEKE, Maryse - LULEK, Janina - FONTAINE-AUPART, Marie Pierre - SCHNEIDER, Raphael. Reactive oxygen species production by photoexcited (CuInS₂)_x(ZnS)_{1-x} quantum dots and their phototoxicity towards Staphylococcus aureus bacteria. In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, 2024, vol. 446, no., art. no. 115165. ISSN 1010-6030. Dostupné na: <https://doi.org/10.1016/j.jphotochem.2023.115165>, Registrované v: WOS

5. [1.1] DONG, Wenpei - XU, Lingyun - CHEN, Mengting - JIANG, Tao - SU, Li - MA, Jinliang - CHEN, Chang-po - ZHANG, Guisheng. Co-, N-doped carbon dot nanozymes based on an untriggered ROS generation approach for anti-biofilm activities and in vivo anti-bacterial treatment. In JOURNAL OF MATERIALS CHEMISTRY B, 2024, vol. 12, no. 4, pp. 1052-1063. ISSN 2050-750X. Dostupné na: <https://doi.org/10.1039/d3tb01794j>, Registrované v: WOS

6. [1.1] DONG, Xiuli - LIU, Yamin - ADCOCK, Audrey F. - SHERIFF, Kirkland - LIANG, Weixiong - YANG, Liju - SUN, Ya-Ping. Carbon-TiO₂ Hybrid Quantum Dots for Photocatalytic Inactivation of Gram-Positive and Gram-Negative Bacteria. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2024, vol. 25, no. 4, art. no. 2196. ISSN 1661-6596. Dostupné na:

<https://doi.org/10.3390/ijms25042196>, Registrované v: WOS

7. [1.1] DU, Juan - NI, Zhi-Jing - WANG, Wei - THAKUR, Kiran - MA, Run-Hui - MA, Wen-Ping - WEI, Zhao-Jun. Carbon Dot-Mediated Photodynamic Treatment Improves the Quality Attributes of Post-Harvest Goji Berries (*Lycium barbarum* L.) via Regulating the Antioxidant System. In *FOODS*, 2024, vol. 13, no. 6, art. no. 955. Dostupné na: <https://doi.org/10.3390/foods13060955>, Registrované v: WOS

8. [1.1] DUARAH, Prangan - DEBNATH, Banhisikha - PURKAIT, Mihir Kumar. Synthesis of antibacterial fluorescent carbon dots and green coal-like hydrochar from tea Industry byproducts via hydrothermal carbonization. In *INDUSTRIAL CROPS AND PRODUCTS*, 2024, vol. 221, no., art. no. 119364. ISSN 0926-6690. Dostupné na: <https://doi.org/10.1016/j.indcrop.2024.119364>, Registrované v: WOS

9. [1.1] EMAM, Hossam E. - HAMOUDA, Tamer - EMAM, El-Amir M. - DARWESH, Osama M. - AHMED, Hanan B. Nano-scaled polyacrylonitrile for industrialization of nanofibers with photoluminescence and microbicide performance. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 7926. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-58035-5>, Registrované v: WOS

10. [1.1] HUSSEN, Narmin Hamaamin - HASAN, Aso Hameed - FAQIKHEDR, Yar Muhammed - BOGOYAVLENSKIY, Andrey - BHAT, Ajmal R. - JAMALIS, Joazaizulfazli. Carbon Dot Based Carbon Nanoparticles as Potent Antimicrobial, Antiviral, and Anticancer Agents. In *ACS OMEGA*, 2024, vol. 9, no. 9, pp. 9849-9864. ISSN 2470-1343. Dostupné na: <https://doi.org/10.1021/acsomega.3c05537>, Registrované v: WOS

11. [1.1] LAN, Xi - DU, Ting - ZHUO, Junchen - WANG, Tianyu - SHU, Rui - LI, Yuechun - ZHANG, Wentao - JI, Yanwei - WANG, Yanru - YUE, Xiaoyue - WANG, Jianlong. Advances of biomacromolecule-based antibacterial hydrogels and their performance evaluation for wound healing: A review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, 2024, vol. 279, no., art. no. 135577. ISSN 0141-8130. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2024.135577>, Registrované v: WOS

12. [1.1] LIANG, Jingjing - HU, Dingfang - XU, Wenjun - PENG, Lingya - LIU, Ke - FANG, Yu. Interfacially Confined Dynamic Reaction Resulted to Fluorescent Nanofilms Depicting High-Performance Ammonia Sensing. In *ANALYTICAL CHEMISTRY*, 2024, vol. 96, no. 5, pp. 2152-2157. ISSN 0003-2700. Dostupné na: <https://doi.org/10.1021/acs.analchem.3c05032>, Registrované v: WOS

13. [1.1] NGUYEN, Minh Hoa - LE, Anh Thi - PHAM, Van Duong - PHAM, Hong Minh - DO, Hoang Tung - LE, Duc Toan - VU, Thi Bich - NGUYEN, Thanh Binh. A Comprehensive Study on the Antibacterial Activities of Carbon Quantum Dots Derived from Orange Juice against *Escherichia coli* In *APPLIED SCIENCES-BASEL*, 2024, vol. 14, no. 6, art. no. 2509. Dostupné na:

<https://doi.org/10.3390/app14062509>, Registrované v: WOS

14. [1.1] RAZAVI, Roghayieh - TAJIK, Hossein - MOLAEI, Rahim - MCCLEMENTS, David Julian - MORADI, Mehran. Janus nanoparticles synthesized from hydrophobic carbon dots and carboxymethyl cellulose: Novel antimicrobial additives for fresh food applications. In *FOOD BIOSCIENCE*, 2024, vol. 62, no., art. no. 105171. ISSN 2212-4292. Dostupné na:

<https://doi.org/10.1016/j.fbio.2024.105171>, Registrované v: WOS

15. [1.1] ROSATO, Roberto - SANTARELLI, Giulia - AUGELLO, Alberto - PERINI, Giordano - DE SPIRITO, Marco - SANGUINETTI, Maurizio - PAPI, Massimiliano - DE MAIO, Flavio. Exploration of the Graphene Quantum Dots-

- Blue Light Combination: A Promising Treatment against Bacterial Infection. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2024, vol. 25, no. 15, art. no. 8033. ISSN 1661-6596. Dostupné na: <https://doi.org/10.3390/ijms25158033>, Registrované v: WOS*
16. [1.1] VIJAYAN, Athira S. - JOSEPH, Abey - NAIR, Baiju G. - VANDANA, Sajith. MoS₂/Ag-TiO₂/Polyurethane Nanocomposite as a Photocatalytic Coating for Antibiofouling Applications. In ACS APPLIED NANO MATERIALS, 2024, vol. 7, no. 16, pp. 19024-19042. Dostupné na: <https://doi.org/10.1021/acsanm.4c02937>, Registrované v: WOS
17. [1.1] WANG, Siqi - MCCOY, Colin P. - LI, Peifeng - LI, Yining - ZHAO, Yinghan - ANDREWS, Gavin P. - WYLIE, Matthew P. - GE, Yi. Carbon Dots in Photodynamic/Photothermal Antimicrobial Therapy. In NANOMATERIALS, 2024, vol. 14, no. 15, art. no. 1250. Dostupné na: <https://doi.org/10.3390/nano14151250>, Registrované v: WOS
18. [1.1] WANG, Zhenzhen - CHEN, Yiping - ZHANG, Menghan - XU, Linlin - XU, Yichun - CHEN, Li - YIN, Xinyang - YANG, Shuangying - WENG, Shaohuang - ZHENG, Yanjie - HUANG, Jianyong. Fluorine-doped carbon dots (F-CDs) adsorbing DNA via hydrophobic interaction play dual-role of quenching carrier and signal reference for ratiometric fluorescence strategy to detect microRNA. In SENSORS AND ACTUATORS B-CHEMICAL, 2024, vol. 403, no., art. no. 135180. Dostupné na: <https://doi.org/10.1016/j.snb.2023.135180>, Registrované v: WOS
19. [1.2] CUI, Fangchao - NING, Yuanyuan - WANG, Dangfeng - LI, Jianrong - LI, Xuepeng - LI, Tingting. Carbon dot-based therapeutics for combating drug-resistant bacteria and biofilm infections in food preservation. In Critical Reviews in Food Science and Nutrition, 2024-01-01, 64, 2, pp. 203-219. ISSN 10408398. Dostupné na: <https://doi.org/10.1080/10408398.2022.2105801>, Registrované v: SCOPUS
20. [1.2] LV, Ju - QIU, Yuheng - PAN, Lang - ZHANG, Xinyue - LI, Mengting - YIN, Xueqiong. Photothermal/photodynamic antibacterial hydrogel embedded with copper carbon dots and Au nanoparticles. In Nano Transmed, 2024-12-01, 3, pp. ISSN 27907384. Dostupné na: <https://doi.org/10.1016/j.ntm.2024.100034>, Registrované v: SCOPUS
21. [1.2] SHI, Yihan - HE, Jianlin - DING, Sheng - YANG, Kun - HOU, Kexin - LI, Fan. Research Progress of Carbon Materials for Wound Hemostasis. In Cailiao Daobao Materials Reports, 2024-01-01, 38, 9, pp. ISSN 1005023X. Dostupné na: <https://doi.org/10.11896/cldb.22090162>, Registrované v: SCOPUS
22. [1.2] TORUN, Ilker - HUANG, Conan - KALAY, Mustafa - SHIM, Moonsub - ONSSES, M. Serdar. pH Tunable Patterning of Quantum Dots. In Small, 2024-01-11, 20, 2, pp. ISSN 16136810. Dostupné na: <https://doi.org/10.1002/sml.202305237>, Registrované v: SCOPUS
23. [1.2] ZHAO, Linlin - ZHANG, Min. Application of Carbon Quantum Dots in the Food Industry. In Engineering Materials, 2024-01-01, part F3729, pp. 263-288. ISSN 16121317. Dostupné na: https://doi.org/10.1007/978-981-97-6203-3_10, Registrované v: SCOPUS

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STAÑO, Peter* - HSU, Chen-Hsuan* - CAMENZIND, Leon C.* - YU, Liuqi* - ZUMBUHL, Dominik* - LOSS, Daniel*. Orbital effects of a strong in-plane magnetic field on a gate-defined quantum dot. In Physical Review B, 2019, vol. 99, no. 8, art. no. 085308. (2018: 3.736 - IF, Q1 - JCR, 1.502 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.99.085308>

Citácie:

1. [1.1] WANG, Chien-An - ERCAN, H. Ekmel - GYURE, Mark F. - SCAPPUCCI, Giordano - VELDHORST, Menno - RIMBACH-RUSS, Maximilian. Modeling of planar germanium hole qubits in electric and magnetic fields. In *NPJ QUANTUM INFORMATION*, 2024, vol. 10, no. 1, art. no. 102. Dostupné na: <https://doi.org/10.1038/s41534-024-00897-8>, Registrované v: WOS
- ADCA782 STAÑO, Peter - HSU, Chen-Hsuan - SERINA, Marcel - CAMENZIND, Leon C. - ZUMBÜHL, Dominik M - LOSS, Daniel. g-factor of electrons in gate-defined quantum dots in a strong in-plane magnetic field. In *Physical Review B*, 2018, vol. 98, no. 19, art. no. 195314. (2017: 3.813 - IF, Q2 - JCR, 1.176 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.98.195314>
Citácie:
1. [1.1] WANG, Chien-An - ERCAN, H. Ekmel - GYURE, Mark F. - SCAPPUCCI, Giordano - VELDHORST, Menno - RIMBACH-RUSS, Maximilian. Modeling of planar germanium hole qubits in electric and magnetic fields. In *NPJ QUANTUM INFORMATION*, 2024, vol. 10, no. 1, art. no. 102. Dostupné na: <https://doi.org/10.1038/s41534-024-00897-8>, Registrované v: WOS
- ADCA783 STAÑO, Peter - KLINOVAJA, J. - YACOBY, A. - LOSS, D. Local spin susceptibilities of low-dimensional electron systems. In *Physical Review B*, 2013, vol. 88, no. 4, art. no. 045441. (2012: 3.767 - IF, Q1 - JCR, 1.779 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.88.045441>
Citácie:
1. [1.1] DU, Jiangfeng - SHI, Fazhan - KONG, Xi - JELEZKO, Fedor - WRACHTRUP, Joerg. Single-molecule scale magnetic resonance spectroscopy using quantum diamond sensors. In *REVIEWS OF MODERN PHYSICS*, 2024, vol. 96, no. 2, art. no. 025001. ISSN 0034-6861. Dostupné na: <https://doi.org/10.1103/RevModPhys.96.025001>, Registrované v: WOS
- ADCA784 STAÑO, Peter - KLINOVAJA, J. - BRAAKMAN, F.R. - VANDERSYPEN, L.M.K. - LOSS, D. Fast long-distance control of spin qubits by photon-assisted cotunneling. In *Physical Review B*, 2015, vol. 92, no. 7, art. no. 075302. (2014: 3.736 - IF, Q1 - JCR, 0.123 - SJR, Q4 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.92.075302>
Citácie:
1. [1.1] FERNANDEZ-FERNANDEZ, D. - BAN, Yue - PLATERO, G. Flying Spin Qubits in Quantum Dot Arrays Driven by Spin- Orbit Interaction. In *QUANTUM*, 2024, vol. 8, no., art. no. 1533. ISSN 2521-327X., Registrované v: WOS
- ADCA785 STAÑO, Peter - JACQUOD, Ph. Suppression of interactions in multimode random lasers in the Anderson localized regime. In *Nature Photonics*, 2013, vol. 7, no. 1, p. 66-71. (2012: 27.254 - IF, Q1 - JCR, 13.474 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1749-4885. Dostupné na: <https://doi.org/10.1038/nphoton.2012.298>
Citácie:
1. [1.1] MORONTA, Pedro - TARTAJ, Pedro - CONSOLI, Antonio - GARCIA, Pedro David - MORENO, Luis Martin - LOPEZ, Cefe. Controlling the spectral persistence of a random laser. In *OPTICA*, 2024, vol. 11, no. 7, pp. 919-925. ISSN 2334-2536. Dostupné na: <https://doi.org/10.1364/OPTICA.519171>, Registrované v: WOS
- ADCA786 STAÑO, Peter** - LOSS, Daniel**. Review of performance metrics of spin qubits in gated semiconducting nanostructures. In *Nature Reviews Physics*, 2022, vol. 4, no. 10, p. 672-688. (2021: 36.273 - IF, Q1 - JCR, 8.971 - SJR, Q1 - SJR, karentované -

CCC). (2022 - Current Contents). ISSN 2522-5820. Dostupné na:

<https://doi.org/10.1038/s42254-022-00484-w>

Citácie:

1. [1.1] ARMENIS, Alexandros S. - WORRELL, Anne - ALEXANDROPOULOS, Dimitris I. - TANG, Jinkui - STAMATATOS, Theocharis C. A Leap Forward in the Coordination Chemistry of N-hydroxy-1,8-naphthalimide Chelate: New {Dy₂} and {Dy₅} Single-Molecule Magnets and the Structure-Directing Role of Supporting β -Diketonate Ligands. In CRYSTAL GROWTH & DESIGN, 2024, vol. 24, no. 21, pp. 9243-9253. ISSN 1528-7483. Dostupné na:

<https://doi.org/10.1021/acs.cgd.4c01229>, Registrované v: WOS

2. [1.1] BERRITTA, Fabrizio - RASMUSSEN, Torbjorn - KRZYWDA, Jan A. - VAN DER HEIJDEN, Joost - FEDELE, Federico - FALLAHI, Saeed - GARDNER, Geoffrey C. - MANFRA, Michael J. - VAN NIEUWENBURG, Evert - DANON, Jeroen - CHATTERJEE, Anasua - KUEMMETH, Ferdinand. Real-time two-axis control of a spin qubit. In NATURE COMMUNICATIONS, 2024, vol. 15, no. 1, art. no. 1676. Dostupné na: <https://doi.org/10.1038/s41467-024-45857-0>, Registrované v: WOS

3. [1.1] CHIA, Cleaven - HUANG, Ding - LEONG, Victor - KONG, Jian Feng - GOH, Kuan Eng Johnson. Hybrid Quantum Systems with Artificial Atoms in Solid State. In ADVANCED QUANTUM TECHNOLOGIES, 2024, vol. 7, no. 5, art. no. 2300461. Dostupné na: <https://doi.org/10.1002/qute.202300461>, Registrované v: WOS

4. [1.1] DENISOV, Konstantin S. - ROZHANSKY, Igor V. - VALENZUELA, Sergio O. - ZUTIC, Igor. Terahertz spin-light coupling in proximitized Dirac materials. In PHYSICAL REVIEW B, 2024, vol. 109, no. 20, art. no. L201406. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.L201406>, Registrované v: WOS

5. [1.1] FERNANDEZ-FERNANDEZ, D. - BAN, Yue - PLATERO, G. Flying Spin Qubits in Quantum Dot Arrays Driven by Spin-Orbit Interaction. In QUANTUM, 2024, vol. 8, no., art. no. 1533. ISSN 2521-327X., Registrované v: WOS

6. [1.1] GARREIS, Rebekka - TONG, Chuyao - TERLE, Jocelyn - RUCKRIEGEL, Max Josef - GERBER, Jonas Daniel - GACHTER, Lisa Maria - WATANABE, Kenji - TANIGUCHI, Takashi - IHN, Thomas - ENSSLIN, Klaus - HUANG, Wei Wister. Long-lived valley states in bilayer graphene quantum dots. In NATURE PHYSICS, 2024, vol. 20, no. 3, p. 428-434. ISSN 1745-2473. Dostupné na: <https://doi.org/10.1038/s41567-023-02334-7>, Registrované v: WOS

7. [1.1] GENG XIN - ZHANG JIE-YIN - LU WEN-LONG - MING MING - LIU FANG-ZE - FU BIN-XIAO - CHU YI-XIN - YAN MOU-HUI - WANG BAO-CHUAN - ZHANG XIN-DING - GUO GUO-PING - ZHANG JIAN-JUN. Epitaxy and characterization of undoped Si/SiGe heterojunctions. In ACTA PHYSICA SINICA, 2024, vol. 73, no. 11, art. no. 117302. ISSN 1000-3290. Dostupné na: <https://doi.org/10.7498/aps.73.20240310>, Registrované v: WOS

8. [1.1] HARRIS, Vincent G. - ANDALIB, Parisa. Modern quantum materials. In FRONTIERS IN MATERIALS, 2024, vol. 11, no., art. no. 1343005. ISSN 2296-8016. Dostupné na: <https://doi.org/10.3389/fmats.2024.1343005>, Registrované v: WOS

9. [1.1] HOLMES, Danielle - WILHELM, Benjamin - JAKOB, Alexander M. - YU, Xi - HUDSON, Fay E. - ITOH, Kohei M. - DZURAK, Andrew S. - JAMIESON, David N. - MORELLO, Andrea. Improved Placement Precision of Donor Spin Qubits in Silicon using Molecule Ion Implantation. In ADVANCED QUANTUM TECHNOLOGIES, 2024, vol. 7, no. 3. Dostupné na:

<https://doi.org/10.1002/qute.202300316>, Registrované v: WOS

10. [1.1] HSUEH, Yu-Ling - KEITH, Daniel - CHUNG, Yousun - GORMAN, Samuel K. - KRANZ, Ludwik - MONIR, Serajum - KEMBREY, Zachary - KEIZER, Joris G. - RAHMAN, Rajib - SIMMONS, Michelle Y. Engineering Spin-Orbit Interactions in Silicon Qubits at the Atomic-Scale. In *ADVANCED MATERIALS*, 2024, vol. 36, no. 26. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202312736>, Registrované v: WOS
11. [1.1] KANAI, Toshiaki - JIN, Dafei - GUO, Wei. Single-Electron Qubits Based on Quantum Ring States on Solid Neon Surface. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 25, art. no. 250603. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.250603>, Registrované v: WOS
12. [1.1] KUROYAMA, Kazuyuki - KWOEN, Jinkwan - ARAKAWA, Yasuhiko - HIRAKAWA, Kazuhiko. Coherent Interaction of a Few-Electron Quantum Dot with a Terahertz Optical Resonator. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 6, art. no. 066901. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.066901>, Registrované v: WOS
13. [1.1] LIU, Yang - GUAN, Shan - LUO, Jun-Wei - LI, Shu-Shen. Progress of Gate-Defined Semiconductor Spin Qubit: Host Materials and Device Geometries. In *ADVANCED FUNCTIONAL MATERIALS*, 2024, vol. 34, no. 19. ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202304725>, Registrované v: WOS
14. [1.1] LONG, Christopher K. - DALTON, Kieran - BARNES, Crispin H. W. - ARVIDSSON-SHUKUR, David R. M. - MERTIG, Normann. Layering and subpool exploration for adaptive variational quantum eigensolvers: Reducing circuit depth, runtime, and susceptibility to noise. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 4, art. no. 042413. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.042413>, Registrované v: WOS
15. [1.1] MCINTYRE, Z. M. - COISH, W. A. Photonic Which-Path Entangler Based on Longitudinal Cavity-Qubit Coupling. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 9, art. no. 093603. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.093603>, Registrované v: WOS
16. [1.1] MEHMANDOOST, M. - DOBROVITSKI, V. V. Decoherence induced by a sparse bath of two-level fluctuators: Peculiar features of $1/f$ noise in high-quality qubits. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 3, art. no. 033175. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.033175>, Registrované v: WOS
17. [1.1] MICHNIEWICZ, J. - KIM, M. S. Leveraging off-the-shelf silicon chips for quantum computing. In *APPLIED PHYSICS LETTERS*, 2024, vol. 124, no. 26, art. no. 260502. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0207162>, Registrované v: WOS
18. [1.1] SECCHI, Andrea - TROIANI, Filippo. Envelope-function theory of inhomogeneous strain in semiconductor nanostructures. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 4, art. no. 045420. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.045420>, Registrované v: WOS
19. [1.1] TONG, Chuyao - KURZMANN, Annika - GARREIS, Rebekka - WATANABE, Kenji - TANIGUCHI, Takashi - IHN, Thomas - ENSSLIN, Klaus. Pauli blockade catalogue and three- and four-particle Kondo effect in bilayer graphene quantum dots. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 1, art. no. L012006. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.L012006>, Registrované v: WOS
20. [1.1] TOUBEIX, Mathieu - GUTHMULLER, Eric - EVANS, Adrian - FAURIE, Antoine - MEUNIER, Tristan. FASQuiC: Flexible Architecture for Scalable Spin Qubit Control. In *IEEE TRANSACTIONS ON QUANTUM ENGINEERING*, 2024,

vol. 5, no., art. no. 5500116. Dostupné na:

<https://doi.org/10.1109/TQE.2024.3409811>, Registrované v: WOS

21. [1.1] VIERU, Veaceslav - GOMEZ-COCA, Silvia - RUIZ, Eliseo - CHIBOTARU, Liviu F. Increasing the Magnetic Blocking Temperature of Single-Molecule Magnets. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*, 2024, vol. 63, no. 2. ISSN 1433-7851. Dostupné na:

<https://doi.org/10.1002/anie.202303146>, Registrované v: WOS

22. [1.1] VOLMER, Mats - STRUCK, Tom - SALA, Arnau - CHEN, Bingjie - OBERLAENDER, Max - OFFERMANN, Tobias - XUE, Ran - VISSER, Lino - TU, Jhih-Sian - TRELLENKAMP, Stefan - CYWINSKI, Lukasz - BLUHM, Hendrik - SCHREIBER, Lars R. Mapping of valley splitting by conveyor-mode spin-coherent electron shuttling. In *NPJ QUANTUM INFORMATION*, 2024, vol. 10, no. 1, art. no. 61. Dostupné na: <https://doi.org/10.1038/s41534-024-00852-7>, Registrované v: WOS

23. [1.1] WANG, Chien-An - ERCAN, H. Ekmel - GYURE, Mark F. - SCAPPUCCI, Giordano - VELDHORST, Menno - RIMBACH-RUSS, Maximilian. Modeling of planar germanium hole qubits in electric and magnetic fields. In *NPJ QUANTUM INFORMATION*, 2024, vol. 10, no. 1, art. no. 102. Dostupné na: <https://doi.org/10.1038/s41534-024-00897-8>, Registrované v: WOS

24. [1.1] WANG, Yue - WANG, Ting - ZHU, Xing-Yu. Virtual Photon-Mediated Quantum State Transfer and Remote Entanglement between Spin Qubits in Quantum Dots Using Superadiabatic Pulses. In *ENTROPY*, 2024, vol. 26, no. 5, art. no. 379. Dostupné na: <https://doi.org/10.3390/e26050379>, Registrované v: WOS

25. [1.1] WU, Yi-Hsien - CAMENZIND, Leon C. - NOIRI, Akito - TAKEDA, Kenta - NAKAJIMA, Takashi - KOBAYASHI, Takashi - CHANG, Chien-Yuan - SAMMAK, Amir - SCAPPUCCI, Giordano - GOAN, Hsi-Sheng - TARUCHA, Seigo. Hamiltonian phase error in resonantly driven CNOT gate above the fault-tolerant threshold. In *NPJ QUANTUM INFORMATION*, 2024, vol. 10, no. 1, art. no. 8. Dostupné na: <https://doi.org/10.1038/s41534-023-00802-9>, Registrované v: WOS

26. [1.1] YUAN, Zhi-Hong - ZHANG, Jun - XIONG, Yong-Chen - ZHOU, Wang-Huai - NAN, Nan - LI, Xin-Ke. Competition between different long-distance superexchange couplings in a quadripartite spin-crossover molecular device. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 11, art. no. 115421. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.115421>, Registrované v: WOS

27. [1.1] ZAPER, Liza - RICKHAUS, Peter - WYSS, Marcus - GROSS, Boris - WAGNER, Kai - POGGIO, Martino - BRAAKMAN, Floris. Scanning Nitrogen-Vacancy Magnetometry of Focused-Electron-Beam-Deposited Cobalt Nanomagnets. In *ACS APPLIED NANO MATERIALS*, 2024, vol. 7, no. 4, pp. 3854-3860. Dostupné na: <https://doi.org/10.1021/acsanm.3c05470>, Registrované v: WOS

28. [1.1] ZHU, Xing-Yu - ZHU, Le-Tian - TU, Tao - LI, Chuan-Feng. Remote entangling gate between a quantum dot spin and a transmon qubit mediated by microwave photons. In *CHINESE PHYSICS B*, 2024, vol. 33, no. 2, art. no. 020315. ISSN 1674-1056. Dostupné na:

<https://doi.org/10.1088/1674-1056/ad1747>, Registrované v: WOS

29. [1.2] ENSSLIN, Klaus. Quantum devices in graphene. In *Encyclopedia of Condensed Matter Physics*, 2024-01-01, pp. V2-256. ISBN [9780323914086, 9780323908009]. Dostupné na: <https://doi.org/10.1016/B978-0-323-90800-9.00221-3>, Registrované v: SCOPUS

30. [1.2] FALCI, Giuseppe - HAKONEN, Pertti J. - PALADINO, Elisabetta. 1/f noise in quantum nanoscience. In *Encyclopedia of Condensed Matter Physics*, 2024-01-01, pp. V1-1017. ISBN [9780323914086, 9780323908009]. Dostupné na: <https://doi.org/10.1016/B978-0-323-90800-9.00250-X>, Registrované v: SCOPUS
31. [1.2] JIN, Dafei. Semiconductor quantum bits: Structures and principles. In *Comprehensive Semiconductor Science and Technology Second Edition Volumes 1* 3, 2024-01-01, 3, pp. V3-656. ISBN [9780323960274, 9780323958196]. Dostupné na: <https://doi.org/10.1016/B978-0-323-96027-4.00043-7>, Registrované v: SCOPUS
32. [1.2] POWER, Conor - STASZEWSKI, Robert Bogdan - BLOKHINA, Elena. Charge-Based Single-Shot Readout Systems in Quantum Computing [Feature]. In *IEEE Circuits and Systems Magazine*, 2024-01-01, 24, 4, pp. 42-64. ISSN 1531636X. Dostupné na: <https://doi.org/10.1109/MCAS.2024.3401618>, Registrované v: SCOPUS
33. [1.2] SEOANE SOUTO, Rubén - AGUADO, Ramón. Subgap States in Semiconductor-Superconductor Devices for Quantum Technologies: Andreev Qubits and Minimal Majorana Chains. In *Lecture Notes in Physics*, 2024-01-01, 1025, pp. 133-223. ISSN 00758450. Dostupné na: https://doi.org/10.1007/978-3-031-55657-9_3, Registrované v: SCOPUS
34. [1.2] WANG, Chien An - ERCAN, H. Ekmel - GYURE, Mark F. - SCAPPUCCI, Giordano - VELDHORST, Menno - RIMBACH-RUSS, Maximilian. Modeling of planar germanium hole qubits in electric and magnetic fields. In *Npj Quantum Information*, 2024-12-01, 10, 1, pp. Dostupné na: <https://doi.org/10.1038/s41534-024-00897-8>, Registrované v: SCOPUS
35. [1.2] ZHOU, Xianjing - LI, Xinhao - CHEN, Qianfan - KOOLSTRA, Gerwin - YANG, Ge - DIZDAR, Brennan - HUANG, Yizhong - WANG, Christopher S. - HAN, Xu - ZHANG, Xufeng - SCHUSTER, David I. - JIN, Dafei. Electron charge qubit with 0.1 millisecond coherence time. In *Nature Physics*, 2024-01-01, 20, 1, pp. 116-122. ISSN 17452473. Dostupné na: <https://doi.org/10.1038/s41567-023-02247-5>, Registrované v: SCOPUS

ADCA787 STRYJCZYK, M.** - TSUNODA, Y. - DARBY, I. G. - DE WITTE, H. - DIRIKEN, J. - FEDOROV, D. V. - FEDOSSEEV, V. N. - FRAILE, L. M. - HUYSE, M. - KÖSTER, U. - MARSH, B. A. - OTSUKA, T. - PAUWELS, D. - POPESCU, L. - RADULOV, D. - SELIVERSTOV, M. D. - SJÖDIN, A. M. - VAN DEN BERGH, P. - VAN DUPPEN, P. - VENHART, Martin - WALTERS, W. B. - WIMMER, K. beta(-) decay study of the Mn-66-Fe-66-Co-6(6)-Ni-66 decay chain. In *Physical Review C*, 2018, vol. 98, no. 6, art. no. 064326. (2017: 3.304 - IF, Q2 - JCR, 1.443 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.98.064326>

Citácie:

1. [1.1] BENITO, J. - LENZI, S. M. - RECCHIA, F. - AXIOTIS, M. - AYDIN, S. - BAZZACCO, D. - BENZONI, G. - BIZZETI, P. G. - BIZZETI-SONA, A. M. - BRACCO, A. - BRODA, R. - BUCURESCU, D. - CAURIER, E. - CORRADI, L. - DE ANGELIS, G. - DELLA VEDOVA, F. - FARNEA, E. - FORNAL, B. - FIORETTO, E. - GADEA, A. - GOTTARDO, A. - IONESCU-BUJOR, M. - IORDACHESCU, A. - LEONI, S. - LUNARDI, S. - MARGINEAN, N. - MARGINEAN, R. - MASON, P. - MENEGAZZO, R. - MENGONI, D. - MILLION, B. - MONTAGNOLI, G. - NAPOLI, D. R. - NOWACKI, F. - ORLANDI, R. - POLLAROLO, G. - POTES, A. - SAHIN, E. - SCARLASSARA, F. - SINGH, R. P. - STEFANINI, A. M. - SZILNER, S. - UR, C. A. - VALIENTE-DOBON, J. J. - WIELAND, O. SPECTROSCOPY OF NEUTRON-RICH Fe ISOTOPES

POPULATED IN THE SUP70/SUPZn+SUP238/SUPU REACTION. In ACTA PHYSICA POLONICA B PROCEEDINGS SUPPLEMENT : 37th Mazurian Lakes Conference on Physics, 2024, vol. 17, no. 3, art. no. A4. ISSN 1899-2358.

Dostupné na: <https://doi.org/10.5506/APhysPolBSupp.17.3-A4>, Registrované v: WOS

2. [1.1] GARRETT, P. E. β -decay studies for shape coexistence. In FRONTIERS IN PHYSICS, 2024, vol. 12, no., art. no. 1481461. ISSN 2296-424X. Dostupné na: <https://doi.org/10.3389/fphy.2024.1481461>, Registrované v: WOS

3. [1.1] LEONI, S. - FORNAL, B. - MARGINEAN, N. - WILSON, J. N. Shape isomers: status and perspectives across the nuclear chart. In EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, 2024, vol. 233, no. 5, pp. 1061-1074. ISSN 1951-6355. Dostupné na: <https://doi.org/10.1140/epjs/s11734-024-01175-6>, Registrované v: WOS

4. [1.2] MIŠT, J. STUDY OF ISOTOPES USING THE β - γ MEASUREMENTS. In Proceedings 27th Conference of Slovak Physicists, 2024-01-01, pp. 29-30. ISBN [9788089855261]., Registrované v: SCOPUS

ADCA788 SUBAIR, Riyas** - DI GIROLAMO, Diego - BODIK, Michal - NÁDAŽDY, Vojtech - LI, Bo - NÁDAŽDY, Peter - MARKOVIC, Zoran - HOFBAUEROVÁ, Monika, Benkovičová - CHLPIK, Juraj - KOTLAR, Mario - HALAHOVETS, Yuriy - ŠIFFALOVIČ, Peter - JERGEL, Matej - TIAN, Jianjun - BRUNETTI, Francesca - MAJKOVÁ, Eva. Effect of the doping of PC61BM electron transport layer with carbon nanodots on the performance of inverted planar MAPbI(3) perovskite solar cells. In Solar Energy, 2019, vol. 189, p. 426-434. (2018: 4.674 - IF, Q1 - JCR, 1.593 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0038-092X. Dostupné na: <https://doi.org/10.1016/j.solener.2019.07.088>

Citácie:

1. [1.1] WANG, Han - ZHANG, Zhiyuan - ZHANG, Chenyang - YAO, Yiguo - WANG, Kai. Structural modification of fullerene derivatives for high-performance inverted perovskite solar cells. In JOURNAL OF MATERIALS CHEMISTRY A, 2024, vol. 12, no. 34, pp. 22442-22457. ISSN 2050-7488. Dostupné na: <https://doi.org/10.1039/d4ta03900a>, Registrované v: WOS

ADCA789 SULEIMAN, B.M. - BOHÁČ, Vlastimil. Thermal Properties of Multiphase Polymeric Materials and Dynamic Methods for their Characterization. In Macromolecular Symposia, 2001, vol. 170, p. 329-339. (2000: 0.406 - IF, karentované - CCC). (2001 - Current Contents). ISSN 1022-1360. Dostupné na: [https://doi.org/10.1002/1521-3900\(200106\)170:1::AID-MASY329o.0.CO;2-J](https://doi.org/10.1002/1521-3900(200106)170:1::AID-MASY329o.0.CO;2-J)

Citácie:

1. [1.1] YEMOH, Obed Ofori - OPOKU, Richard - TAKYI, Gabriel - ADOMAKO, Ernest Kwadwo - UBA, Felix - OBENG, George. Green building adaptation in hot-humid climates: assessment of coconut and corn husk fiber composite bricks as energy-efficient building envelopes. In INTERNATIONAL JOURNAL OF BUILDING PATHOLOGY AND ADAPTATION, 2024, vol., no. ISSN 2398-4708. Dostupné na: <https://doi.org/10.1108/IJBPA-11-2022-0178>, Registrované v: WOS

ADCA790 SULIGNANO, B. - THEISEN, Ch. - DELAROCHE, J.P. - GIROD, M. - LJUNGVALL, J. - ACKERMANN, D. - ANTALIC, S. - DORVAUX, O. - GALL, B. - GORGEN, A. - GREENLEES, P.T. - HAUSCHILD, K. - HERZBERG, R.-D. - HESSBERGER, F.P. - JAKOBSSON, U. - JONES, P. - JULIN, R. - JUUTINEN, S. - KETELHUT, S. - KORTEN, W. - LEINO, M. - LOPEZ-MARTENS, A. - NYMAN, M. - OBERTELLI, A. - PAKARINEN, J. - PAPADAKIS, P. - PARR, E. - PEURA, P. - PIOT, J. - RAHKILA, P. - ROSTRON, D. - RUOTSALAINEN, P. - SAREN, J. - SCHOLEY, C. - SORRI, J. - UUSITALO, J. - VENHART, Martin - ZIELINSKA, M. Investigation of high-K states in No-252. In Physical Review C, 2012, vol. 86, no. 4,

art. no. 044318. (2011: 3.308 - IF, 2.962 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.86.044318>

Citácie:

1. [1.1] MINATO, Futoshi - IWAMOTO, Osamu. Fission fragment yields of $^{235}\text{U}/^{238}\text{U}$ evaluated with the CCONE code system. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 5, art. no. 054311. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.054311>, Registrované v: WOS
2. [1.1] ROGOV, I. S. - ADAMIAN, G. G. - V. ANTONENKO, N. Spontaneous fission and α decay from K-isomeric states within a cluster approach. In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 1, art. no. 014606. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.014606>, Registrované v: WOS

ADCA791 SUN, F. - ZHANG, J.Y. - VERMAUT, P. - CHODHOURI, D. - ALAM, T. - MANTRI, S.A. - ŠVEC, Peter - GLORANT, T. - JACQUES, P.J. - BANERJEE, R.** - PRIMA, F.**. Strengthening strategy for a ductile metastable beta-titanium alloy using low-temperature aging. In *Materials Research Letters*, 2017, vol. 5, no. 8, p. 547-553. (2016: 4.773 - IF, Q1 - JCR, 2.544 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, SCOPUS). ISSN 2166-3831. Dostupné na: <https://doi.org/10.1080/21663831.2017.1350211>

Citácie:

1. [1.1] CHEN, C. Y. - LU, C. X. - YANG, X. J. - JING, J. R. - HUANG, X. - LI, J. S. - LAI, M. J. Remarkable contribution of stress-induced martensitic transformation to strain-hardening behavior in Ti-Mo-based metastable β -titanium alloys. In *SCRIPTA MATERIALIA*, 2024, vol. 252, no., art. no. 116254. ISSN 1359-6462. Dostupné na: <https://doi.org/10.1016/j.scriptamat.2024.116254>, Registrované v: WOS
2. [1.1] CHEN, D. J. - WANG, Q. - REN, J. Q. - CHEN, B. Q. - LIU, W. F. - LU, X. F. - WU, Y. N. A novel low-cost Ti-Cr-Fe β -Ti alloy with TWIP effect: Sensitivity of tensile properties to microstructural characteristics. In *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING*, 2024, vol. 891, no., art. no. 146004. ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2023.146004>, Registrované v: WOS
3. [1.1] CHIU, Wan-Ting - HAYAKAWA, Ryunosuke - NOHIRA, Naoki - TAHARA, Masaki - INAMURA, Tomonari - HOSODA, Hideki. Mechanical properties of various thermomechanical processed Ti-Mo-Al-Zr and pseudo-binary (Ti-Zr)-Mo shape memory alloys for biomedical applications. In *MATERIALIA*, 2024, vol. 37, no., art. no. 102194. ISSN 2589-1529. Dostupné na: <https://doi.org/10.1016/j.mtla.2024.102194>, Registrované v: WOS
4. [1.1] CHURCH, N. L. - ANG, J. Y. - REED, O. G. - GIBSON, O. E. - JONES, N. G. The effect of athermal omega on the transformation behaviour of Ti-24Nb-4Zr-8Sn (wt%). In *MATERIALIA*, 2024, vol. 38, no., art. no. 102266. ISSN 2589-1529. Dostupné na: <https://doi.org/10.1016/j.mtla.2024.102266>, Registrované v: WOS
5. [1.1] CHURCH, N. L. - TALBOT, C. E. P. - CONNOR, L. D. - MICHALIK, S. - JONES, N. G. The interdependence of the thermal and mechanical cycling behaviour in Ti-24Nb-4Zr-8Sn (wt%). In *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING*, 2024, vol. 889, no., art. no. 145791. ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2023.145791>, Registrované v: WOS

6. [1.1] DUMAS, O. - MALET, L. - KWASNIAK, P. - PRIMA, F. - GODET, S. Design rules to develop solute lean α plus β titanium alloys exhibiting high work-hardening by reorientation induced plasticity. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, 2024, vol. 890, no., art. no. 145935. ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2023.145935>, Registrované v: WOS
7. [1.1] FENG, Tengfeng - PAN, Zhanglai - LI, Ningxin - ZHANG, Peiqian - ZHANG, Shanglin - MA, Xinkai. Achieving an excellent combination of strength and ductility in metastable β titanium alloys via coupling isothermal ω phase and TRIP/TWIP effects. In MATERIALS CHARACTERIZATION, 2024, vol. 218, no., art. no. 114531. ISSN 1044-5803. Dostupné na: <https://doi.org/10.1016/j.matchar.2024.114531>, Registrované v: WOS
8. [1.1] FU, Yu - GAO, Yue - JIANG, Wentao - XIAO, Wenlong - ZHAO, Xinqing - MA, Chaoli. A Review of Deformation Mechanisms, Compositional Design, and Development of Titanium Alloys with Transformation-Induced Plasticity and Twinning-Induced Plasticity Effects. In METALS, 2024, vol. 14, no. 1, art. no. 97. Dostupné na: <https://doi.org/10.3390/met14010097>, Registrované v: WOS
9. [1.1] GHOSH, Atasi - REDDY, Sureddy Tejanath - GAWANDE, Anjali. A nanoindentation-based investigation of the local deformation mechanism of additively manufactured Ti6242 alloy. In MRS COMMUNICATIONS, 2024, vol. 14, no. 3, pp. 419-426. ISSN 2159-6859. Dostupné na: <https://doi.org/10.1557/s43579-024-00562-3>, Registrované v: WOS
10. [1.1] JI, Xin - CHONG, Yan - EMURA, Satoshi - TSUCHIYA, Koichi. Heterogeneous distribution of isothermal ω precipitates prevents brittle fracture in aged β -Ti alloys. In SCRIPTA MATERIALIA, 2024, vol. 241, no., art. no. 115879. ISSN 1359-6462. Dostupné na: <https://doi.org/10.1016/j.scriptamat.2023.115879>, Registrované v: WOS
11. [1.1] JIA, Yandi - MA, Yingjie - SU, Huhu - HUANG, Sensen - WANG, Qian - QI, Min - YANG, Yujing - ZHENG, Shijian - LEI, Jiafeng - YANG, Rui. The stress-induced α'' and its effect on the aging microstructure and mechanical properties in an α plus β titanium alloy. In MATERIALS CHARACTERIZATION, 2024, vol. 209, no., art. no. 113734. ISSN 1044-5803. Dostupné na: <https://doi.org/10.1016/j.matchar.2024.113734>, Registrované v: WOS
12. [1.1] JIA, Yandi - SU, Huhu - CAO, Shuo - SHI, Rongpei - MA, Yingjie - WANG, Qian - HUANG, Sensen - ZHANG, Ruixue - HU, Qingmiao - ZHENG, Yufeng - ZHENG, Shijian - LEI, Jiafeng - YANG, Rui. Fabrication of highly heterogeneous precipitate microstructure in an α/β titanium alloy. In ACTA MATERIALIA, 2024, vol. 279, no., art. no. 120302. ISSN 1359-6454. Dostupné na: <https://doi.org/10.1016/j.actamat.2024.120302>, Registrované v: WOS
13. [1.1] LI, Dian - FIELDS, Sydney - ZHANG, Xing - PILLAI, Deepak - HAQUE, Mohammad Merajul - INGALE, Tirthesh - SONI, Vishal - LIAO, Yiliang - BANERJEE, Rajarshi - ZHENG, Yufeng. Tuning α precipitation via post-heat treatments in direct energy deposited metastable (β Ti-5Al-5Mo-5V-3Cr alloy and its impact on mechanical properties. In ADDITIVE MANUFACTURING, 2024, vol. 93, no., art. no. 104436. ISSN 2214-8604. Dostupné na: <https://doi.org/10.1016/j.addma.2024.104436>, Registrované v: WOS
14. [1.1] LI, Diao-Feng - BAI, Chun-Guang - ZHANG, Zhi-Qiang - WANG, Ran - LI, Nan - YANG, Rui. α'' martensite engineering: A strategy to achieve high yield strength and low yield ratio synergy for dual-phase titanium alloy. In MATERIALS & DESIGN, 2024, vol. 239, no., art. no. 112764. ISSN 0264-1275. Dostupné na: <https://doi.org/10.1016/j.matdes.2024.112764>, Registrované v: WOS

15. [1.1] LIU, Chang-chang - LI, Yang-huan-zi - GU, Ji - SONG, Min. Phase transformation in titanium alloys: A review. In *TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA*, 2024, vol. 34, no. 10, pp. 3093-3117. ISSN 1003-6326. Dostupné na: [https://doi.org/10.1016/S1003-6326\(24\)66597-0](https://doi.org/10.1016/S1003-6326(24)66597-0), Registrované v: WOS
16. [1.1] LOPES, E. S. N. - CAMPO, K. N. - STARCK, L. F. - CARAM, R. Role of the aging procedure on the (O + β) microstructure in the metastable (β Ti-30Nb-3Fe alloy. In *MATERIALS LETTERS*, 2024, vol. 374, no., art. no. 137192. ISSN 0167-577X. Dostupné na: <https://doi.org/10.1016/j.matlet.2024.137192>, Registrované v: WOS
17. [1.1] LU, Haoran - SHI, Zhilin - SHI, Heyang - MI, Chang - LIANG, Shunxing - ZHANG, Junsong - ZHANG, Shuzhi - ZHANG, Xinyu - LIU, Riping. Combination of multiple strengthening mechanisms facilitates excellent strength-ductility balance in metastable β titanium alloy. In *JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T*, 2024, vol. 30, no., pp. 8248-8259. ISSN 2238-7854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2024.05.217>, Registrované v: WOS
18. [1.1] RAJA, C. Pradeep - BABU, N. B. Karthik - KANNAN, A. Rajesh - SHANMUGAM, Vigneshwaran - BALAJI, N. S. - SAHANI, Rishikant - BEHERA, Laxmidhar - PUGAZHENTHI, A. - THANSEKHAR, M. R. Progress in the Optimization of Compositional Design and Thermomechanical Processing of Metastable β Ti Alloys for Biomedical Applications. In *ACS BIOMATERIALS SCIENCE & ENGINEERING*, 2024, vol. 10, no. 6, pp. 3528-3547. ISSN 2373-9878. Dostupné na: <https://doi.org/10.1021/acsbiomaterials.3c01912>, Registrované v: WOS
19. [1.1] SONG, Bo - AN, Mingyu - XI, Honglei - FU, Yu - WANG, Junshuai - XIAO, Wenlong - MA, Chaoli - ZHOU, Lian. Simultaneous improvement of strength and ductility in near β Ti alloy with (α plus β) hybrid structure via intermediate phases transformation. In *JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T*, 2024, vol. 30, no., pp. 2576-2588. ISSN 2238-7854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2024.03.232>, Registrované v: WOS
20. [1.1] SONG, Xin - QI, Huiping - LI, Shuang - HU, Yong - YANG, Wen - LI, Zhenjiang. Effect of cryogenic coupled magnetic field treatment on the microstructure and mechanical properties on Ti-6Al-4V titanium alloy. In *MATERIALS TODAY COMMUNICATIONS*, 2024, vol. 40, no., art. no. 109417. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2024.109417>, Registrované v: WOS
21. [1.1] TALBOT, C. E. P. - CHURCH, N. L. - HILDYARD, E. M. - CONNOR, L. D. - MILLER, J. R. - JONES, N. G. On the stability and formation of the α'' and ω phases in Ti-Nb alloys upon cooling. In *ACTA MATERIALIA*, 2024, vol. 262, no., art. no. 119409. ISSN 1359-6454. Dostupné na: <https://doi.org/10.1016/j.actamat.2023.119409>, Registrované v: WOS
22. [1.1] WANG, Q. - REN, J. Q. - XIN, C. - SANG, B. - CHEN, D. J. - XING, S. L. - WU, Y. N. - LI, W. Comparative research on Charpy impact behaviors of a novel TRIP Ti alloy with single β and α plus β dual phase. In *MATERIALS CHARACTERIZATION*, 2024, vol. 207, no., art. no. 113524. ISSN 1044-5803. Dostupné na: <https://doi.org/10.1016/j.matchar.2023.113524>, Registrované v: WOS
23. [1.1] WANG, Wei - CHEN, Chaoyue - ZHAO, Ruixin - GLUDOVATZ, Bernd - LU, Xufei - ZHANG, Kai - SHUAI, Sansan - HU, Tao - XU, Songzhe - WANG, Jiang - REN, Zhongming. A laser additive manufactured metastable

Ti-10V-2Fe-3Al β -titanium alloy: Microstructure, mechanical properties, and deformation mechanisms. In *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING*, 2024, vol. 890, no., art. no. 145863. ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2023.145863>, Registrované v: WOS

24. [1.1] ZHANG, Xianbing - WANG, Shubin - WU, Jialin - SUN, Jian - GAO, Yipeng - HE, Binbin - PENNYCOOK, Stephen J. ω -Strengthened Ti-23Nb alloy with twinning-induced plasticity developed via reverse martensitic transformation. In *ACTA MATERIALIA*, 2024, vol. 278, no., art. no. 120234. ISSN 1359-6454. Dostupné na: <https://doi.org/10.1016/j.actamat.2024.120234>, Registrované v: WOS

25. [1.1] ZHANG, Y. B. - XIN, S. W. - ZHANG, G. J. - LI, T. Investigation of tensile deformation behavior of a TWIP/TRIP metastable β titanium alloy at typical temperature part I: Room temperature. In *MATERIALS & DESIGN*, 2024, vol. 248, no., art. no. 113508. ISSN 0264-1275. Dostupné na: <https://doi.org/10.1016/j.matdes.2024.113508>, Registrované v: WOS

26. [1.1] ZHANG, Yu - CHENG, Xiaodong - WU, Hao. Deformation twinning and mechanical property of strongly textured titanium deformed at low temperatures. In *MICRON*, 2024, vol. 186, no., art. no. 103702. ISSN 0968-4328. Dostupné na: <https://doi.org/10.1016/j.micron.2024.103702>, Registrované v: WOS

27. [1.1] ZHOU, Q. - ZHANG, X. Z. - SONG, T. - LU, S. L. - DONG, T. - TANG, H. P. - QIAN, M. Laser directed energy deposition of Ti-1Al-8V-5Fe alloy: From zero to significant tensile plasticity. In *SCRIPTA MATERIALIA*, 2024, vol. 239, no., art. no. 115814. ISSN 1359-6462. Dostupné na: <https://doi.org/10.1016/j.scriptamat.2023.115814>, Registrované v: WOS

28. [1.2] TITENKO, Anatoliy - DEMCHENKO, Lesya - HUSEYNOV, Vusal - BABANLI, Mustafa - HUSEYNOV, Sayami. Structural Features and Mechanical Behavior of Pseudo- β -Ti-Mo-Sn Alloys As-Quenched and As-Aged for Biomedical Application. In *Springer Proceedings in Physics*, 2024-01-01, 312 SPPHY, pp. 79-98. ISBN [9783031675263]. ISSN 09308989. Dostupné na: https://doi.org/10.1007/978-3-031-67527-0_7, Registrované v: SCOPUS

ADCA792 SUROVČÍK, J.** - MEDVECKÁ, V. - GREGUŠ, J. - GREGOR, M. - ROCH, T. - HVIŽDOŠOVÁ, Adriana, Annušová - ĎURINA, P. - VOJTEKOVÁ, Tatiana. Characterization of TiO₂ nanofibers with enhanced photocatalytic properties prepared by plasma assisted calcination. In *Ceramics International*, 2022, vol. 48, no. 24, p. 37322-37332. (2021: 5.532 - IF, Q1 - JCR, 0.887 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 0272-8842. Dostupné na: <https://doi.org/10.1016/j.ceramint.2022.08.309>

Citácie:

1. [1.1] FARIAS, Rosiane M. C. - ARAUJO, Samuel B. - SALES, Herbet B. - LEITE, Raquel S. - ARAUJO, Rondinele N. - NASCIMENTO, Emanuel P. - NEVES, Gelmires A. - MENEZES, Romualdo R. PVP-derived TiO₂/C and TiO₂/C/N Nanofibers by SBS with High Adsorption/Photocatalytic Capacity. In *MATERIALS RESEARCH-IBERO-AMERICAN JOURNAL OF MATERIALS*, 2024, vol. 27, no., art. no. e20230522. ISSN 1516-1439. Dostupné na: <https://doi.org/10.1590/1980-5373-MR-2023-0522>, Registrované v: WOS
2. [1.1] KOUAO, Dujearic-Stephane - HANUS, Jan - KYLIAN, Ondrej - SIMEROVA, Radka - SEZEMSKY, Petr - STRANAK, Vitezslav - GROCHOWSKA, Katarzyna - SIUZDAK, Katarzyna. Photoelectrochemical and Electrochemical Activity of Anodic Semitransparent Aligned and Spaced Titania Nanotubes Formed out of Titanium-Silver Alloys. In *ACS APPLIED NANO MATERIALS*, 2024, vol. 7, no. 2, pp. 1548-1561. Dostupné na:

<https://doi.org/10.1021/acsanm.3c04186>, Registrované v: WOS

3. [1.1] MACIAS-COLLADO, K. - BALLESTEROS-ROZO, L. T. - VELAZQUEZ-VAZQUEZ, V. W. - FRIAS-MARQUEZ, D. M. - LOPEZ-GONZALEZ, R. - ALVAREZ-LEMUS, M. A. Effect of chitosan on the electrokinetic, spectroscopic, and textural properties of TiO₂ CONTENTIDO nanoparticles V um 8. In REVISTA MEXICANA DE INGENIERIA QUIMICA, 2024, vol. 23, no. 1, art. no.

Poly24218. ISSN 1665-2738. Dostupné na:

<https://doi.org/10.24275/rmiq/Poly24218>, Registrované v: WOS

4. [1.1] MOUMNANI, Fatin Tagnaouti - KHALLOUK, Khadija - ELKHALFAOUY, Redouan - MOUSSAID, Dina - MERTAH, Oumaima - SOLHY, Abderrahim - BARAKAT, Abdellatif - KHERBECHE, Abdelhak. Synthesis and characterization of Zn₃V₂O₈ nanoparticles: mechanism and factors influencing crystal violet photodegradation. In REACTION KINETICS MECHANISMS AND CATALYSIS, 2024, vol. 137, no. 2, pp. 1157-1174. ISSN 1878-5190. Dostupné na:

<https://doi.org/10.1007/s11144-023-02553-2>, Registrované v: WOS

5. [1.1] PANDEYA, Shiva - DING, Rui - MA, Yufei - HAN, Xuling - GUI, Meixing - MULMI, Purnima - PANTHI, Khim Prasad - NEUPANE, Bhanu Bhakta - PANT, Hem Raj - LI, Ziliang - JOSHI, Mahesh Kumar. Self-standing CdS/TiO₂ Janus nanofibrous membrane: COD removal, antibacterial activity and photocatalytic degradation of organic pollutants. In JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, 2024, vol. 12, no. 3, art. no. 112521. ISSN 2213-2929. Dostupné na: <https://doi.org/10.1016/j.jece.2024.112521>, Registrované v: WOS

6. [1.2] BLACHOWICZ, Tomasz - MPOFU, Nonsikelelo Sheron - EHRMANN, Andrea. Measuring Physical and Chemical Properties of Single Nanofibers for Energy Applications—Possibilities and Limits. In Nanoenergy Advances, 2024-12-01, 4, 4, pp. 300-317. Dostupné na:

<https://doi.org/10.3390/nanoenergyadv4040018>, Registrované v: SCOPUS

7. [1.2] GUTIÉRREZ-LÓPEZ, E. D. - DOMÍNGUEZ, D. - ORTIZ-DOMINGUEZ, C. - CAUDILLO-FLORES, U. - GUZMÁN-CRUZ, M. A. - FUENTES-MOYADO, S. - MORALES DE LA GARZA, L. - DÍAZ DE LEÓN, J. N. Direct obtaining of pure anatase TiO₂ nanostructures, characterization, size-tuning, and applications. In Nano Structures and Nano Objects, 2024-09-01, 39, pp. Dostupné na:

<https://doi.org/10.1016/j.nanoso.2024.101215>, Registrované v: SCOPUS

ADCA793 SUROVTSEV, Yu.S. - BYDŽOVSKÝ, P. - KAMIŃSKI, R. - NAGY, Miroslav. Light-meson spectroscopy and combined analysis of processes with pseudoscalar mesons. In Physical Review D, 2010, vol. 81, no. 1, art. no. 016001. (2009: 4.922 - IF, 2.792 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na:

<https://doi.org/10.1103/PhysRevD.81.016001>

Citácie:

1. [1.1] PIRE, Bernard - SONG, Qin-Tao. Kinematical higher-twist corrections in $\gamma^* \rightarrow M_1 M_2 \gamma$: Charged meson production. In PHYSICAL REVIEW D, 2024, vol. 109, no. 7, art. no. 074016. ISSN 2470-0010. Dostupné na:

<https://doi.org/10.1103/PhysRevD.109.074016>, Registrované v: WOS

ADCA794 SZALOWSKI, Karol** - MILIVOJEVIĆ, Marko - KOCHAN, Denis - GMITRA, Martin. Spin-orbit and exchange proximity couplings in graphene/1T-TaS₂ heterostructure triggered by a charge density wave. In 2D Materials, 2023, vol. 10, no. 2, art. no. 025013. (2022: 5.5 - IF, Q2 - JCR, 1.631 - SJR, Q1 - SJR). ISSN 2053-1583. Dostupné na: <https://doi.org/10.1088/2053-1583/acbb19>

Citácie:

1. [1.1] CHI, Zhendong - LEE, Seungjun - YANG, Haozhe - DOLAN, Eoin -

SAFEER, C. K. - INGLA-AYNES, Josep - HERLING, Franz - ONTOSO, Nerea - MARTIN-GARCIA, Beatriz - GOBBI, Marco - LOW, Tony - HUESO, Luis E. - CASANOVA, Felix. Control of Charge-Spin Interconversion in van der Waals Heterostructures with Chiral Charge Density Waves. In *ADVANCED MATERIALS*, 2024, vol., no., pp. ISSN 0935-9648., Registrované v: WOS

2. [1.1] DIZNAB, Mohammad Rafiee - SHAYEGANFAR, Farzaneh - HABIBIYAN, Hamidreza - RAMAZANI, Ali. Strain modulation of intrinsic spin hall conductivity in monolayer 1iT/i TaSsub2/sub and Graphene/TaSsub2/sub interface: The role of orbital texture. In *ACTA MATERIALIA*, 2024, vol. 267, no., pp. ISSN 1359-6454. Dostupné na: <https://doi.org/10.1016/j.actamat.2024.119706>, Registrované v: WOS

3. [1.1] FRANK, Tobias - FARIA JUNIOR, Paulo E. Faria - ZOLLNER, Klaus - FABIAN, Jaroslav. Emergence of radial Rashba spin-orbit fields in twisted van der Waals heterostructures. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 24, pp. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.L241403>, Registrované v: WOS

4. [1.1] WANG, Rui - DING, Jianwei - SUN, Fei - ZHAO, Jimin - QIU, Xiaohui. Photodoping-Modified Charge Density Wave Phase Transition in WSsub2/sub/1T-TaSsub2/sub Heterostructure. In *CHINESE PHYSICS LETTERS*, 2024, vol. 41, no. 5, pp. ISSN 0256-307X. Dostupné na: <https://doi.org/10.1088/0256-307X/41/5/057801>, Registrované v: WOS

ADCA795 ŠAMAJ, Ladislav - KALINAY, Pavol - TRAVĚNEC, Igor. The t-expansion study of critical phenomena in quantum systems. In *Journal of Physics A: Mathematical and Theoretical*, 1997, vol. 30, no. 5, p. 1471-1482. ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/0305-4470/30/5/015>

Citácie:

1. [1.1] MOURE, Alberto - LOPEZ-SANCHEZ, Jesus - DEL CAMPO, Adolfo - NAVARRO-ROJERO, Maria Guadalupe - FERNANDEZ, Jose F. - RUBIO-MARCOS, Fernando. Ferroelectric domain structure in Bi4Ti3O12 ceramics: Insights from Confocal Raman Microscopy. In *JOURNAL OF THE EUROPEAN CERAMIC SOCIETY*, 2024, vol. 44, no. 12, pp. 7032-7039. ISSN 0955-2219. Dostupné na: <https://doi.org/10.1016/j.jeurceramsoc.2024.05.034>, Registrované v: WOS

ADCA796 ŠAMAJ, Ladislav - TRULSSON, Martin - TRIZAC, Emmanuel. Strong-coupling theory of counterions with hard cores between symmetrically charged walls. In *Physical Review E*, 2020, vol. 102, no. 4, art. no. 042604. (2019: 2.296 - IF, Q1 - JCR, 0.958 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.102.042604>

Citácie:

1. [1.1] PETERSEN, Thomas. Toward Modeling the Structure of Electrolytes at Charged Mineral Interfaces Using Classical Density Functional Theory. In *JOURNAL OF PHYSICAL CHEMISTRY B*, 2024, vol. 128, no. 16, pp. 3981-3996. ISSN 1520-6106. Dostupné na: <https://doi.org/10.1021/acs.jpccb.3c08045>, Registrované v: WOS

2. [1.1] ZHOU, S. Effective electrostatic potential in polar solvent added with ionic liquid. In *JOURNAL OF MOLECULAR LIQUIDS*, 2024, vol. 397, no., art. no. 124167. ISSN 0167-7322. Dostupné na: <https://doi.org/10.1016/j.molliq.2024.124167>, Registrované v: WOS

ADCA797 ŠAMAJ, Ladislav**. Attraction of Like-Charged Walls with Counterions Only: Exact Results for the 2D Cylinder Geometry. In *Journal of Statistical Physics*, 2020, vol. 181, no. 5, p. 1699-1729. (2019: 1.243 - IF, Q3 - JCR, 0.742 - SJR, Q2 - SJR,

karentované - CCC). (2020 - Current Contents). ISSN 0022-4715. Dostupné na:
<https://doi.org/10.1007/s10955-020-02642-9>

Citácie:

1. [1.1] ZHOU, S. *Effective electrostatic potential in polar solvent added with ionic liquid. In JOURNAL OF MOLECULAR LIQUIDS*, 2024, vol. 397, no., art. no. 124167. ISSN 0167-7322. Dostupné na:

<https://doi.org/10.1016/j.molliq.2024.124167>, Registrované v: WOS

ADCA798

ŠAMAJ, Ladislav - TRIZAC, Emmanuel. Electric double layers with surface charge modulations: Exact Poisson-Boltzmann solutions. In *Physical Review E*, 2019, vol. 100, no. 4, art. no. 042611. (2018: 2.353 - IF, Q1 - JCR, 0.992 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.100.042611>

Citácie:

1. [1.1] BOSSA, Guilherme Volpe - HOBBIÉ, Erik - MAY, Sylvio. *Counterion Release from Macroion Assemblies of Planar Geometry. In JOURNAL OF PHYSICAL CHEMISTRY B*, 2024, vol. 128, no. 28, pp. 6966-6974. ISSN 1520-6106. Dostupné na: <https://doi.org/10.1021/acs.jpcc.4c03222>, Registrované v: WOS

2. [1.1] NIGAM, Ravi - KAR, Kamal K. *Effect of Mixed Morphology (Simple Cubic, Face-Centered Cubic, and Body-Centered Cubic)-Based Electrodes on the Electric Double Layer Capacitance of Supercapacitors. In LANGMUIR*, 2024, vol. 40, no. 28, pp. 14266-14280. ISSN 0743-7463. Dostupné na:

<https://doi.org/10.1021/acs.langmuir.4c00664>, Registrované v: WOS

3. [1.1] TRAVESSET, Alex. *Nonlinear Poisson-Boltzmann solutions for charged parallel plates: When opposite charges repel. In JOURNAL OF CHEMICAL PHYSICS*, 2024, vol. 161, no. 5, art. no. 054903. ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/5.0221826>, Registrované v: WOS

ADCA799

ŠAMAJ, Ladislav - TRULSSON, Martin - TRIZAC, Emmanuel. Strong-coupling theory of counterions between symmetrically charged walls: from crystal to fluid phases. In *Soft Matter*, 2018, vol. 14, no. 20, p. 4040-4052. (2017: 3.709 - IF, Q1 - JCR, 1.493 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 1744-683X. Dostupné na: <https://doi.org/10.1039/c8sm00571k>

Citácie:

1. [1.1] ZANG, Haizhi - WANG, Shanyong - CARTER, John P. *Analysis of thixotropy of cement grout based on a virtual bond model. In ACTA GEOTECHNICA*, 2024, vol. 19, no. 11, pp. 7427-7450. ISSN 1861-1125.

Dostupné na: <https://doi.org/10.1007/s11440-024-02417-6>, Registrované v: WOS

ADCA800

ŠAMAJ, Ladislav - TRIZAC, E. Ground-state structure of a bilayer Wigner crystal with repulsive dielectric images. In *Europhysics Letters*, 2012, vol. 100, no. 5, art. no. 56005. (2011: 2.171 - IF, Q1 - JCR, 1.389 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, SCOPUS). ISSN 0295-5075. Dostupné na: <https://doi.org/10.1209/0295-5075/100/56005>

Citácie:

1. [1.1] POGHARIAN, Nicholas - DOS SANTOS, Alexandre P. - EHLEN, Ali - DE LA CRUZ, Monica Olvera. *Electric fields near undulating dielectric membranes. In JOURNAL OF CHEMICAL PHYSICS*, 2024, vol. 160, no. 9, art. no. 094704. ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/5.0185570>, Registrované v: WOS

ADCA801

ŠAŠURA, Marek - BUŽEK, Vladimír. Cold trapped ions as quantum information processors. In *Journal of Modern Optics*, 2002, vol. 49, no. 10, p. 1593-1647. (2002 - Current Contents). ISSN 0950-0340. Dostupné na: <https://doi.org/10.1080/09500340110115497>

Citácie:

1. [1.1] HE, Si-Wen - DENG, Zhi-Jiao - XIE, Yi - WANG, Yan-Yi - CHEN, Ping-Xing. Entanglement signatures for quantum synchronization with single-ion phonon laser. In *OPTICS EXPRESS*, 2024, vol. 32, no. 8, pp. 13998-14009. ISSN 1094-4087. Dostupné na: <https://doi.org/10.1364/OE.515903>, Registrované v: WOS

2. [1.1] VINAS, P. - LOPEZ, E. - BERMUDEZ, A. Thermal masses and trapped ion quantum spin models: a self-consistent approach to Yukawa-type interactions in the $\lambda\phi^4$ model. In *QUANTUM*, 2024, vol. 8, no., art. no. 1411. ISSN 2521-327X., Registrované v: WOS

ADCA802 ŠEBO, Pavol - ŠVEC, Peter - JANIČKOVIČ, Dušan - ILLEKOVÁ, Emília - ZEMÁNKOVÁ, Milina - PLEVACHUK, Yu - SIDOROV, V. - ŠVEC, Peter Jr. The influence of silver content on structure and properties of Sn-Bi-Ag solder and Cu/solder/Cu joints. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing*, 2013, vol. 571, p. 184-192. (2012: 2.108 - IF, Q1 - JCR, 1.744 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2013.02.013>

Citácie:

1. [1.1] CHEN, C.T. - SUETAKE, A. - HUO, F.P. - KIM, D. - ZHANG, Z. - HSIEH, M.C. - LI, W.L. - WAKASUGI, N. - TAKESHITA, K. - YAMAGUCHI, Y. - MOMOSE, Y. - SUGANUMA, K. Development of SiC Power Module Structure by Micron-Sized Ag-Paste Sinter Joining on Both Die and Heatsink to Low-Thermal-Resistance and Superior Power Cycling Reliability. In *IEEE TRANSACTIONS ON POWER ELECTRONICS*. ISSN 0885-8993, SEP 2024, vol. 39, no. 9, p. 10638-10650. Dostupné na: <https://doi.org/10.1109/TPEL.2024.3408798>, Registrované v: WOS

2. [1.1] HU, X. - SUN, W. - LIAO, J. - XIAN, J. - ZENG, G. Microstructure evolution and deformation behaviour of Sn-xBi-1Ag Solder alloys: Influences of Bi content. In *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING*. ISSN 0921-5093, SEP 2024, vol. 910. Dostupné na:

<https://doi.org/10.1016/j.msea.2024.146895>, Registrované v: WOS

ADCA803 ŠEBO, Pavol - ŠVEC, Peter - JANIČKOVIČ, Dušan - ILLEKOVÁ, Emília - PLEVACHUK, Yu. Interface between Sn-Sb-Cu solder and copper substrate. In *Materials Science and Engineering A*, 2011, vol. 528, no. 18, p. 5955-5960. (2010: 2.101 - IF, Q1 - JCR, 1.723 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2011.04.008>

Citácie:

1. [1.1] IACOB, G. - GHICA, V.G. - PETRESCU, M.I. - NICULESCU, F. - BUTU, M. - STANCEL, C.D. - STANESCU, M.M. - ILIE, A.A. RESEARCH ON THE DEVELOPMENT AND CHARACTERIZATION OF Bi-Sn, Bi-Sn-Sb AND Bi-Sn-Ag SOLDER ALLOYS. In *UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE*. ISSN 1454-2331, 2024, vol. 86, no. 1, p. 187-198., Registrované v: WOS

ADCA804 ŠEBO, Pavol - MOSER, Zbigniew - ŠVEC, Peter - JANIČKOVIČ, Dušan - DOBROČKA, Edmund - GASIOR, Wladyslaw - PSTRUŚ, Janus. Effect of indium on the microstructure of the interface between Sn_{3.13}Ag_{0.74}CuIn solder and Cu substrate. In *Journal of Alloys and Compounds*, 2009, vol. 480, no. 2, p. 409-415. (2008: 1.510 - IF, Q1 - JCR, 0.888 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na:

<https://doi.org/10.1016/j.jallcom.2009.02.110>

Citácie:

1. [1.1] DONG, Ding-qian - HE, Feng-yuan - CHEN, Xin-hui - LI, Hui - SHI, Kai-hua - XIONG, Hui-wen - XIANG, Xin - ZHANG, Li. Effect of tungsten carbide particles on microstructure and mechanical properties of Cu alloy composite bit matrix. In *JOURNAL OF IRON AND STEEL RESEARCH INTERNATIONAL*, 2024, vol. 31, no. 2, pp. 519-530. ISSN 1006-706X. Dostupné na:

<https://doi.org/10.1007/s42243-023-01076-3>, Registrované v: WOS

2. [1.1] THAKUR, Ayushi - JAIN, Jayant - SANTRA, Sangeeta. Effect of individual and synergistic alloying of In and Ni on microstructure, phase stability and thermal properties of lead-free Sn-0.7Cu solder. In *PHILOSOPHICAL MAGAZINE*, 2024, vol. 104, no. 24, pp. 1207-1229. ISSN 1478-6435. Dostupné na: <https://doi.org/10.1080/14786435.2024.2383771>, Registrované v: WOS

3. [1.2] GAO, Caihong - QIAO, Yuanyuan - ZHAO, Ning. Effects of In addition on the properties of Sn-4Ag-0.5Cu-3Bi-0.05Ni solder. In *Journal of Materials Science Materials in Electronics*, 2024-07-01, 35, 19, pp. ISSN 09574522.

Dostupné na: <https://doi.org/10.1007/s10854-024-13088-0>, Registrované v: SCOPUS

ADCA805 ŠEVČÍK, Jakub - URBANEK, Pavel - SKODA, David - JAMATIA, Thaiskang - NÁDAŽDY, Vojtech - URBÁNEK, Michal - ANTOŠ, Jan - MÜNSTER, Lukáš - KURITKA, Ivo**. Energy resolved-electrochemical impedance spectroscopy investigation of the role of Al-doped ZnO nanoparticles in electronic structure modification of polymer nanocomposite LEDs. In *Materials and Design*, 2021, vol. 205, art. no. 109738. (2020: 7.991 - IF, Q1 - JCR, 1.842 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0261-3069. Dostupné na: <https://doi.org/10.1016/j.matdes.2021.109738>

Citácie:

1. [1.1] PAWAR, Vijay N. - KAMBLE, Vishal S. - MUNDHE, Kaustubh A. - AGHAV, Balasaheb D. - SALUNKHE, Suresh T. - KADAM, Abhijit N. - KAMBLE, Satyajit S. Simple co-precipitation synthesis of aluminum-decorated zinc oxide nanorods for noxious NO₂ gas detection at low ppm concentrations. In *VACUUM*, 2024, vol. 227, no., art. no. 113373. ISSN 0042-207X. Dostupné na: <https://doi.org/10.1016/j.vacuum.2024.113373>, Registrované v: WOS

2. [1.1] SIRIRAK, Reungruthai - PHETTAKUA, Pridakun - RANGDEE, Phongsaphat - BOONRUANG, Chatdanai - KLINBUMRUNG, Arrak. Unveiling the impact of excessive dopant content on morphology and optical defects in carbonation synthesis of nanostructured Al-doped ZnO. In *POWDER TECHNOLOGY*, 2024, vol. 435, no., art. no. 119444. ISSN 0032-5910. Dostupné na: <https://doi.org/10.1016/j.powtec.2024.119444>, Registrované v: WOS

3. [1.1] ZHENG, Liubin - OGINO, Kenji. Solution-processed ZnO quantum dot thin films with low solvent residues and ultra-flat surfaces. In *COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS*, 2024, vol. 703, no., art. no. 135051. ISSN 0927-7757. Dostupné na: <https://doi.org/10.1016/j.colsurfa.2024.135051>, Registrované v: WOS

4. [1.2] GHULE, Babaji - LAAD, Meena - KALE, Girish - SADASIVUNI, Kishor Kumar. Polymer nanocomposite film and coating for electronic and optoelectronic devices. In *Polymer Nanocomposite Films and Coatings Processes Fundamental Properties and Applications*, 2024-01-01, pp. 293-331. ISBN [9780443191404, 9780443191398]. Dostupné na: <https://doi.org/10.1016/B978-0-443-19139-8.00016-4>, Registrované v: SCOPUS

ADCA806 ŠIFFALOVIČ, Peter - MAJKOVÁ, Eva - CHITU, Livia - JERGEL, Matej - LUBY, Štefan - KECKES, J. - MAIER, G. - TIMMANN, A. - ROTH, S.V. - TSURU, T. -

HARADA, T. - YAMAMOTO, M. - HEINZMANN, U. Characterization of Mo/Si soft X-ray multilayer mirrors by grazing-incidence small-angle X-ray scattering. In *Vacuum*, 2009, vol. 84, no. 1, p. 19-25. (2008: 1.114 - IF, Q3 - JCR, 0.566 - SJR, Q2 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0042-207X. Dostupné na: <https://doi.org/10.1016/j.vacuum.2009.04.026>

Citácie:

1. [1.1] CHANG, Chenyuan - WEI, Zhenbo - JIANG, Hui - NI, Hangjian - SONG, Wentao - HE, Jialian - XIANG, Simeng - WANG, Zhanshan - ZHANG, Zhe - ZHANG, Zhong. *Effect of Annealing on Stress, Microstructure, and Interfaces of NiV/B4C Multilayers*. In *COATINGS*, 2024, vol. 14, no. 4, art. no. 513. Dostupné na: <https://doi.org/10.3390/coatings14040513>, Registrované v: WOS

2. [1.1] CHANG, Chenyuan - WEI, Zhenbo - ZHANG, Zhe - JIANG, Li - JIANG, Hui - MA, Hongchen - ZHANG, Zhong - WANG, Zhanshan. *Annealing Process-Induced Microstructural Variation in NiV/B4C Multilayers*. In *APPLIED SCIENCES-BASEL*, 2024, vol. 14, no. 24, art. no. 11664. Dostupné na: <https://doi.org/10.3390/app142411664>, Registrované v: WOS

3. [1.1] STENDAHL, Sjoerd - GHAFOR, Naureen - SCHWARTZKOPF, Matthias - ZUBAYER, Anton - BIRCH, Jens - ERIKSSON, Fredrik. *Morphology of Buried Interfaces in Ion-Assisted Magnetron Sputter-Deposited SUP11/SUPB4C-Containing Ni/Ti Multilayer Neutron Optics Investigated by Grazing-Incidence Small-Angle Scattering*. In *ACS APPLIED MATERIALS & INTERFACES*, 2024, vol. 16, no. 17, pp. 22665-22675. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.4c01457>, Registrované v: WOS

ADCA807 ŠIFFALOVÍČ, Peter - CHITU, Livia - VÉGSÖ, Karol - MAJKOVÁ, Eva - JERDEL, Matej - WEIS, Martin Jr. - LUBY, Štefan - CAPEK, Ignác - KECKES, J. - MAIER, G.A. - SATKA, A. - PERLICH, J. - ROTH, S.V. *Towards strain gauges based on a self-assembled nanoparticle monolayer-SAXS study*. In *Nanotechnology*, 2010, vol. 21, no. 38, art. no. 385702. (2009: 3.137 - IF, Q2 - JCR, 1.809 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 0957-4484. Dostupné na: <https://doi.org/10.1088/0957-4484/21/38/385702>

Citácie:

1. [1.1] SHANG, Guojun - DINH, Dong - CHENG, Han-Wen - GEBRE, Lidia - YUAN, Tony - YAN, Shan - LUO, Jin - LU, Susan - ZHONG, Chuan-Jian. *Flexible, Fibrous, and Rigid Chemiresistive VOC Sensors with Nanoparticle-Structured Interfaces*. In *ADVANCED SENSOR RESEARCH*, 2024, vol. 3, no. 3, art. no. 2300119. ISSN 2751-1219. Dostupné na: <https://doi.org/10.1002/adsr.202300119>, Registrované v: WOS

ADCA808 ŠIFFALOVÍČ, Peter - JERDEL, Matej - HOFBAUEROVÁ, Monika, Benkovičová - VOJTKO, Andrej - NÁDAŽDY, Vojtech - IVANČO, Ján - BODÍK, M. - DEMYDENKO, M. - MAJKOVÁ, Eva. *Towards new multifunctional coatings for organic photovoltaics*. In *Solar Energy Materials and Solar Cells*, 2014, vol. 125, p. 127-132. (2013: 5.030 - IF, Q1 - JCR, 2.174 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0927-0248. Dostupné na: <https://doi.org/10.1016/j.solmat.2014.03.001>

Citácie:

1. [1.1] NIEVES, Renis Agosto - DOPAZO, Gabriela Gomez - ROSENFELD, Joseph - TRAN, Hong-Huy - LOPEZ, Lyanivette Alvarado - SOTERO-ESTEVA, Jose - FASOLI, Ezio - DMOCHOWSKI, Ivan J. - LEE, Daeyeon - BANSAL, Vibha. *Using Hybrid Coating to Fabricate Highly Stable and Expandable Transparent Liquid Marbles*. In *ACS APPLIED MATERIALS & INTERFACES*, 2024, vol. 16, no. 49, pp. 68336-68347. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.4c14949>, Registrované v: WOS

2. [1.1] ZHU, Yongcan - LI, Kefeng - GAO, Wu - WANG, Jiawen - XIONG, Haonan - YANG, Shusen - HUANG, Xinbo. Research Progress of Snowmelt Promotion and Snowmelt Monitoring Technology on Photovoltaic Modules. In *IEEEJ TRANSACTIONS ON ELECTRICAL AND ELECTRONIC ENGINEERING*, 2024, vol. 19, no. 7, pp. 1224-1233. ISSN 1931-4973. Dostupné na:

<https://doi.org/10.1002/tee.24069>, Registrované v: WOS

3. [1.2] VANZETTO, Andrielen Braz - NEVES, Guilherme - ALVES, Tamires Pereira - MOURA, João Henrique - DE BORTOLI, Bruna Farias - SANTANA, Lean - DE OLIVEIRA POLKOWSKI, Rodrigo Denizarte. A systematic review on smart coatings for automotive applications. In *SAE Technical Papers*, 2024-01-08, pp. Dostupné na: <https://doi.org/10.4271/2023-36-0126>, Registrované v: SCOPUS

ADCA809

ŠIMURDA, Michal - BOČA, Miroslav** - ŠVEC, Peter - ŠVEC, Peter Jr. - JANIČKOVIČ, Dušan - SHI, Zhongning - MLYNÁRIKOVÁ, Jarmila. Analysis of the extremely rapidly cooled molten system (LiF-CaF₂)eut-LaF₃. In *New Journal of Chemistry*, 2018, vol. 42, no. 6, p. 4612-4623. (2017: 3.201 - IF, Q2 - JCR, 0.864 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1144-0546. Dostupné na: <https://doi.org/10.1039/c7nj05156e>

Citácie:

1. [1.1] LEHMUSTO, J. - KURLEY, JM III - CAKMAK, E. - KEISER, J.R. - LINDBERG, D. - ENGBLOM, M. - PINT, B.A. - RAIMAN, S.S. Rapid Quenching of Molten Salts as an Approach for the Coordination Characterization of Corrosion Products. In *NUCLEAR SCIENCE AND ENGINEERING*. ISSN 0029-5639, MAR 3 2024, vol. 198, no. 3, p. 727-734. Dostupné na:

<https://doi.org/10.1080/00295639.2023.2204175>, Registrované v: WOS

ADCA810

ŠKORVÁNEK, Ivan - MARCIN, Jozef - KRENICKÝ, Tibor - KOVÁČ, Jozef - ŠVEC, Peter - JANIČKOVIČ, Dušan. Improved soft magnetic behaviour in field-annealed nanocrystalline Hitperm alloys. In *Journal of Magnetism and Magnetic Materials*, 2006, vol. 304, no. 2, p. 203-207. (2005: 0.985 - IF, Q2 - JCR, 0.699 - SJR, Q2 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2006.02.120>

Citácie:

1. [1.1] CUI, Xiaoli - ZHOU, Jifeng - PANG, Jing - QIU, Keqiang - LI, Xiaoyu - YOU, Junhua - YANG, Dong - BU, Jianwei. Achieving constant magnetic permeability in Fe-based nanocrystalline alloys by Ni alloying and magnetic-field annealing for high DC bias capability and low coercivity. In *JOURNAL OF APPLIED PHYSICS*, 2024, vol. 136, no. 13, art. no. 135103. ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/5.0221619>, Registrované v: WOS

2. [1.1] LIU, Yijin - YANG, Jianzhi - CAO, Fuzhi - ZHANG, Xu - ZHENG, Shiqiang. Enhancement of Magnetic Shielding Based on Low-Noise Materials, Magnetization Control, and Active Compensation: A Review. In *MATERIALS*, 2024, vol. 17, no. 22, art. no. 5469. Dostupné na:

<https://doi.org/10.3390/ma17225469>, Registrované v: WOS

3. [1.1] PLUTTA, Niklas - SPIECKERMANN, Florian - POLAK, Christian - MARSILIUS, Mie - ZEHETBAUER, Michael - ECKERT, Juergen. A rapid heat treatment for nanocrystallization of amorphous Fe_{75.1}Cu₁Nb_{1.5}Si_{15.5}B_{6.9} and Fe₈₃Cu₁Nb₄B₁₂ tape wound cores. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*, 2024, vol. 592, no., art. no. 171797. ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2024.171797>, Registrované v: WOS

4. [1.1] WU, Yue - DAI, Zhengkun - LIU, Ruirui - ZHOU, Haitao. Effects of heat treatment on the microstructures and magnetic properties of Co₂₈Fe₂₈Ni₁₉Si₁₃B₁₂ high-entropy amorphous toroidal core. In *JOURNAL OF*

ALLOYS AND COMPOUNDS, 2024, vol. 981, no., art. no. 173713. ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.173713>, Registrované v: WOS

- ADCA811 ŠKORVÁNEK, Ivan - MARCIN, Jozef - TURČANOVÁ, Jana - WÓJCIK, Marek - NESTERUK, K. - JANIČKOVIČ, Dušan - ŠVEC, Peter. Field induced anisotropy and stability of soft magnetic properties towards high temperature in Co-rich nanocrystalline FeCoNbB alloys. In Journal of Magnetism and Magnetic Materials, 2007, vol. 310, no. 2, p. 2494-2496. (2006: 1.212 - IF, Q2 - JCR, 0.838 - SJR, Q2 - SJR, karentované - CCC). (2007 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2006.11.092>

Citácie:

1. [1.1] CUI, Xiaoli - ZHOU, Jifeng - PANG, Jing - QIU, Keqiang - LI, Xiaoyu - YOU, Junhua - YANG, Dong - BU, Jianwei. Achieving constant magnetic permeability in Fe-based nanocrystalline alloys by Ni alloying and magnetic-field annealing for high DC bias capability and low coercivity. In JOURNAL OF APPLIED PHYSICS, 2024, vol. 136, no. 13, art. no. 135103. ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/5.0221619>, Registrované v: WOS

2. [1.1] WARSKI, Tymon - PILSNIAK, Adam - WOJCIK, Anna - SZLEZYNGER, Maciej - DADIEL, Joseph Longji - KOLANO-BURIAN, Aleksandra - HAWELEK, Lukasz. Annealing Optimization of High Induction (> 1.7 T) Fe85-(x plus y)CoxCuyB15 Alloys With Enhanced Magnetic Properties. In METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, 2024, vol. 55, no. 4, pp. 1174-1182. ISSN 1073-5623. Dostupné na: <https://doi.org/10.1007/s11661-024-07313-y>, Registrované v: WOS

- ADCA812 ŠKORVÁNEK, Ivan - KOVÁČ, Jozef - MARCIN, Jozef - ŠVEC, Peter - JANIČKOVIČ, Dušan. Magnetocaloric effect in amorphous and nanocrystalline Fe81-xCr_xNb7B12 (x=0 and 3.5) alloys. In Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing, 2007, vol. 449-451, p. 460-463. (2006: 1.490 - IF, Q2 - JCR, 1.337 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, WOS, SCOPUS). ISSN 0921-5093. Dostupné na: <https://doi.org/10.1016/j.msea.2006.02.353>

Citácie:

1. [1.1] LIU, Chengcheng - LU, Yongchao - FENG, Jianfa - CAI, Weidong - SU, Hang. Prediction and customized design of Curie temperature of Fe-based amorphous alloys based on interpretable machine learning. In MATERIALS TODAY COMMUNICATIONS, 2024, vol. 38, no., art. no. 107667. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2023.107667>, Registrované v: WOS

2. [1.1] LIU, Chengcheng - WANG, Xuandong - CAI, Weidong - SU, Hang. Prediction of magnetocaloric properties of Fe-based amorphous alloys based on interpretable machine learning. In JOURNAL OF NON-CRYSTALLINE SOLIDS, 2024, vol. 625, no., art. no. 122749. ISSN 0022-3093. Dostupné na: <https://doi.org/10.1016/j.jnoncrysol.2023.122749>, Registrované v: WOS

3. [1.1] LIU, Xiangjie - YUAN, Jiameng - WANG, Qiang - DING, Ding - XIA, Lei. Excellent Magnetocaloric Properties near 285 K of Amorphous Fe88Pr6Ce4B2 Ribbon. In METALS, 2024, vol. 14, no. 11, art. no. 1214. Dostupné na: <https://doi.org/10.3390/met14111214>, Registrované v: WOS

- ADCA813 ŠKORVÁNEK, Ivan - ŠVEC, Peter - MARCIN, Jozef - KOVÁČ, Jozef - KRENICKÝ, Tibor - DEANKO, Martin. Nanocrystalline Cu-free HITPERM alloys with improved soft magnetic properties. In Physica status solidi A. Applied research, 2003, vol. 196, no 1., p. 217-220. (2002: 0.979 - IF, karentované - CCC). (2003 - Current Contents, WOS, SCOPUS). ISSN 0031-8965. Dostupné na: <https://doi.org/10.1002/pssa.200306390>

Citácie:

1. [1.1] HAN, Min-Hao - SUN, Cheng - XI, Guo-Guo - MENG, Yang - LUO, Qiang - YU, Xue-Qian - ZHANG, Wen-Feng - LIU, Hao - XU, Hong-Jie - ZHANG, Tao. Decomposition of pre-existing Au-P clusters induced in situ α -Fe grains uniformization in Fe-P-based nanocrystalline alloys. In RARE METALS, 2024, vol. 43, no. 10, pp. 5242-5255. ISSN 1001-0521. Dostupné na:

<https://doi.org/10.1007/s12598-024-02707-8>, Registrované v: WOS

2. [1.1] KHITOUNI, Nawel - DALY, Rakia - DAZA, Jason - ALSULAMI, Abdulelah H. - SUNOL, Joan-Josep - KHITOUNI, Mohamed. Characterization of the microstructural, magnetic, and thermal behaviors of boron-doped Fe-Co-Ni alloys produced via mechanical alloying. In JOURNAL OF APPLIED PHYSICS, 2024, vol. 136, no. 3, art. no. 035103. ISSN 0021-8979. Dostupné na:

<https://doi.org/10.1063/5.0213911>, Registrované v: WOS

ADCA814 ŠKORVÁNEK, Ivan - MARCIN, Jozef - TURČANOVÁ, Jana - KOVÁČ, Jozef - ŠVEC, Peter. Improvement of soft magnetic properties in Fe₃₈Co₃₈Mo₈B₁₅Cu amorphous and nanocrystalline alloys by heat treatment in external magnetic field. In Journal of Alloys and Compounds, 2010, vol. 504, supplement 1, p. S135-S138. (2009: 2.135 - IF, Q1 - JCR, 0.956 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na:

<https://doi.org/10.1016/j.jallcom.2010.04.033>

Citácie:

1. [1.1] TOKMAKOVA, E. N. - VVEDENSKIY, V. Yu. The effect of Ni content in amorphous soft magnetic Fe-Ni-Si-B alloys on the magnetic properties and efficiency of unsaturated magnetic field annealing. In LETTERS ON MATERIALS, 2024, vol. 14, no. 2, pp. 130-135. ISSN 2218-5046. Dostupné na:

<https://doi.org/10.48612/letters/2024-2-130-135>, Registrované v: WOS

2. [1.1] WANG, Pu - ZHU, Zhengqu - CHAI, Yunfei - LIU, Jiaqi - YAO, Wenkang - YANG, Dong - ZHANG, Jiaquan. Industrial-scale fabrication of FeSiBC cores with balanced soft magnetic properties by transverse magnetic field annealing and mixing of carbonyl iron powder. In JOURNAL OF ALLOYS AND COMPOUNDS, 2024, vol. 977, no., art. no. 173381. ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2023.173381>, Registrované v: WOS

3. [1.1] WANG, Pu - ZHU, Zhengqu - LIU, Jiaqi - WANG, Haoxuan - PANG, Jing - ZHANG, Jiaquan. Finemet nanocrystalline magnetic powder cores: Application of binder and warm compaction process. In JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, 2024, vol. 596, no., art. no. 171985. ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2024.171985>, Registrované v: WOS

4. [1.1] WU, Yue - DAI, Zhengkun - LIU, Ruirui - ZHOU, Haitao. Effects of heat treatment on the microstructures and magnetic properties of Co₂₈Fe₂₈Ni₁₉Si₁₃B₁₂ high-entropy amorphous toroidal core. In JOURNAL OF ALLOYS AND COMPOUNDS, 2024, vol. 981, no., art. no. 173713. ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.173713>, Registrované v: WOS

ADCA815 ŠPANKOVÁ, Marianna** - SOJKOVÁ, Michaela - DOBROČKA, Edmund - HUTÁR, Peter - BODIK, Michal - MUNNIK, F. - HULMAN, Martin - CHROMIK, Štefan. Influence of precursor thin-film quality on the structural properties of large-area MoS₂ films grown by sulfurization of MoO₃ on c-sapphire. In Applied Surface Science, 2021, vol. 540, part 1, art. no. 148240. (2020: 6.707 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2020.148240>

Citácie:

1. [1.1] MA, X.F. - ZHANG, X.T. - GAO, M.J. - WANG, Y. - LI, G. Construction of

a MoOx/MoS2 Heterojunction via the Surface Sulfurization of the Oxide and Its Photocurrent-Switching Characteristics in the Range of the Broadband Light Spectrum. In *MATERIALS*. NOV 2024, vol. 17, no. 22, art. no. 5507. Dostupné na: <https://doi.org/10.3390/ma17225507>, Registrované v: WOS

2. [1.1] MA, Xingfa - ZHANG, Xintao - GAO, Mingjun - WANG, You - LI, Guang. Construction of a MoOx/MoS2 Heterojunction via the Surface Sulfurization of the Oxide and Its Photocurrent-Switching Characteristics in the Range of the Broadband Light Spectrum. In *MATERIALS*, 2024, vol. 17, no. 22, art. no. 5507. Dostupné na: <https://doi.org/10.3390/ma17225507>, Registrované v: WOS

3. [1.2] GUERRERO DE LEÓN, J. A. - RIVERA, L. P. - PÉREZ-CENTENO, A. - SANTOS-CRUZ, J. - QUIÑONES-GALVÁN, J. G. Pulsed laser deposition of MoS2 thin films at different mean kinetic plasma energies. In *Journal of Materials Research and Technology*, 2024-11-01, 33, pp. 2638-2644. ISSN 22387854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2024.10.004>, Registrované v: SCOPUS

ADCA816 ŠROBA, Viktor - FIANTOK, Tomáš - TRUCHLÝ, Martin - ROCH, Tomáš - GRANČIČ, Branislav - VISKUPOVÁ, Katarína - SATRAPINSKY, Leonid - ŠVEC, Peter Jr. - NAGY, Štefan - IZAI, Vitalii - KÚŠ, Peter - MIKULA, Marian. Structure evolution and mechanical properties of Al-alloyed tantalum diboride films prepared by magnetron sputtering co-deposition. In *Journal of Vacuum Science and Technology A*, 2023, vol. 41, no. 2, art. no. 023410. (2022: 2.9 - IF, Q2 - JCR, 0.55 - SJR, Q2 - SJR). ISSN 0734-2101. Dostupné na: <https://doi.org/10.1116/6.0002390>

Citácie:

1. [1.1] EKTARAWONG, A. - ATTHAPAK, C. - ALLING, B. Role of Al Vacancies in Thermodynamic Stability and Elastic Properties of AlB2-type (Ta,Al)B2: A First-Principles Study. In *ADVANCED THEORY AND SIMULATIONS*. OCT 2024, vol. 7, no. 10. Dostupné na: <https://doi.org/10.1002/adts.202400421>, Registrované v: WOS

2. [1.1] HU, C. - LIN, S.Y. - PODSEDNIK, M. - MRÁZ, S. - WOJCIK, T. - LIMBECK, A. - KOUTNÁ, N. - MAYRHOFER, P.H. Influence of co-sputtering AlB2 to TaB2 on stoichiometry of non-reactively sputtered boride thin films. In *MATERIALS RESEARCH LETTERS*. ISSN 2166-3831, AUG 2 2024, vol. 12, no. 8, p. 561-570. Dostupné na: <https://doi.org/10.1080/21663831.2024.2357700>, Registrované v: WOS

3. [1.1] WICHER, B. - PSZYK, O.V. - LI, X. - BAKHIT, B. - ROGOZ, V. - PETROV, I. - HULTMAN, L. - GRECZYNSKI, G. Superhard oxidation-resistant Ti1-xAlxBy thin films grown by hybrid HiPIMS/DCMS co-sputtering diboride targets without external substrate heating. In *MATERIALS & DESIGN*. ISSN 0264-1275, FEB 2024, vol. 238. Dostupné na: <https://doi.org/10.1016/j.matdes.2024.112727>, Registrované v: WOS

ADCA817 ŠROBA, Viktor - FIANTOK, Tomáš - TRUCHLÝ, Martin - ROCH, Tomáš - ZAHORAN, Miroslav - GRANČIČ, Branislav - ŠVEC, Peter Jr. - NAGY, Štefan - IZAI, Vitalii - KÚŠ, Peter - MIKULA, Marian**. Structure evolution and mechanical properties of hard tantalum diboride films. In *Journal of Vacuum Science and Technology A*, 2020, vol. 38, no. 3, art. no. 033408. (2019: 2.166 - IF, Q3 - JCR, 0.588 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0734-2101. Dostupné na: <https://doi.org/10.1116/6.0000155>

Citácie:

1. [1.1] CHIEN, Y.P. - MRÁZ, S. - AZINA, C. - KOLOZSVÁRI, S. - POLCIK, P. - SCHNEIDER, J.M. Stoichiometric Cr2AlC MAX phase coatings deposited by HPPMS from composite targets using industrial deposition technology. In *OPEN CERAMICS*. ISSN 2666-5395, MAR 2024, vol. 17. Dostupné na:

- <https://doi.org/10.1016/j.oceram.2024.100538>, Registrované v: WOS
2. [1.1] DORRI, S. - PALISAITIS, J. - KOLOZSVÁRI, S. - POLCIK, P. - PERSSON, POÅ - GHAFOOR, N. - ERIKSSON, F. - BIRCH, J. TiB1.8 single layers and epitaxial TiB2-based superlattices by magnetron sputtering using a TiB (Ti:B=1:1) target. In *SURFACE & COATINGS TECHNOLOGY*. ISSN 0257-8972, OCT 30 2024, vol. 494, 3. Dostupné na: <https://doi.org/10.1016/j.surfcoat.2024.131534>, Registrované v: WOS
3. [1.1] GRIGORIEV, S.N. - VOLOSOVA, M.A. - FEDOROV, S.V. - MITROFANOV, A.P. - GURIN, V.D. - OKUNKOVA, A.A. Creation of Tool Coatings Based on Titanium Diboride for Highly Efficient Milling of Chromium-Nickel Alloys. In *JOURNAL OF MANUFACTURING AND MATERIALS PROCESSING*. OCT 2024, vol. 8, no. 5. Dostupné na: <https://doi.org/10.3390/jmmp8050210>, Registrované v: WOS
4. [1.1] HU, C. - LIN, S.Y. - PODSEDNIK, M. - MRÁZ, S. - WOJCIK, T. - LIMBECK, A. - KOUTNÁ, N. - MAYRHOFER, P.H. Influence of co-sputtering AlB2 to TaB2 on stoichiometry of non-reactively sputtered boride thin films. In *MATERIALS RESEARCH LETTERS*. ISSN 2166-3831, AUG 2 2024, vol. 12, no. 8, p. 561-570. Dostupné na: <https://doi.org/10.1080/21663831.2024.2357700>, Registrované v: WOS
5. [1.1] KUS, A. - RAJTÚKOVÁ, V. - PILARCZYK, W. - HUDÁK, R. - MEHNER, T. - MAJ, L. - LAMPKE, T. - MALACHOWSKA, A. First attempt to print Co-based alloys with high glass forming ability by selective laser melting. In *JOURNAL OF ALLOYS AND COMPOUNDS*. ISSN 0925-8388, AUG 15 2024, vol. 995. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.174680>, Registrované v: WOS
6. [1.1] LAWTON, J.D. - THORNLEY, S.A. - WAKEHAM, S.J. - THWAITES, M.J. - STOLOJAN, V. - BAKER, M.A. Reactive remote plasma sputtering of TiOx thin films and controlled growth of textured single-phase rutile using rf substrate biasing. In *SURFACE & COATINGS TECHNOLOGY*. ISSN 0257-8972, JAN 30 2024, vol. 476. Dostupné na: <https://doi.org/10.1016/j.surfcoat.2023.130247>, Registrované v: WOS
7. [1.1] MOPOUNG, K. - EKTARAWONG, A. First-principles analysis of improved thermodynamic stability and mechanical properties in pseudo-binary Y1-XVXB2 alloys. In *COMPUTATIONAL MATERIALS SCIENCE*. ISSN 0927-0256, OCT 2024, vol. 245. Dostupné na: <https://doi.org/10.1016/j.commatsci.2024.113287>, Registrované v: WOS
8. [1.1] PSIUK, R. - CHRZANOWSKA-GIZYNSKA, J. - DENIS, P. - WYSZKOWSKA, E. - WISNIEWSKA, M. - LIPINSKA, M. - WOJTIUK, E. - KURPASKA, L. - SMOLIK, J. - MOSCICKI, T. Microstructural and properties investigations of tantalum-doped tungsten diboride ceramic coatings via HiPIMS and RF magnetron sputtering. In *ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING*. ISSN 1644-9665, SEP 28 2024, vol. 24, no. 4. Dostupné na: <https://doi.org/10.1007/s43452-024-01050-0>, Registrované v: WOS
9. [1.1] YU, Y.H. - WEI, J. - YAN, X.H. - CHEN, Y.H. - ZHANG, B. - WANG, Y.J. - YE, F. - LIU, L.M. Phase formation, microstructure and mechanical properties of TaB2-SiC composites synthesized by reaction hot pressing: Effects of SiC contents and oxygen impurity. In *MATERIALS CHEMISTRY AND PHYSICS*. ISSN 0254-0584, DEC 1 2024, vol. 328. Dostupné na: <https://doi.org/10.1016/j.matchemphys.2024.129949>, Registrované v: WOS

<https://doi.org/10.1103/PhysRevA.70.032313>

Citácie:

1. [1.1] LI, Xuan - ZHOU, Zongsheng - XU, Guanglei - CHI, Runze - GUO, Yibin - LIU, Tong - LIAO, Haijun - XIANG, Tao. Accurate determination of low-energy eigenspectra with multitarget matrix product states. In *PHYSICAL REVIEW B*, 2024, vol. 109, no. 4, art. no. 045115. ISSN 2469-9950. Dostupné na:

<https://doi.org/10.1103/PhysRevB.109.045115>, Registrované v: WOS

ADCA819 ŠVAJDLENKOVÁ, Helena** - KLEINOVÁ, Angela - ŠAUŠA, Ondrej - RUSNÁK, Jaroslav - DUNG, Tran Anh - KOCH, Thomas - KNAACK, Patrick**.

Microstructural study of epoxy-based thermosets prepared by classical and cationic frontal polymerization. In *RSC Advances*, 2020, vol. 10, no. 67, p. 41098-41109.

(2019: 3.119 - IF, Q2 - JCR, 0.736 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2046-2069. Dostupné na:

<https://doi.org/10.1039/d0ra08298h>

Citácie:

1. [1.1] LUO, Tingting - FU, Kunkun - ZHU, Huixin - CHEN, Yuan - YANG, Bin - LI, Yan. In-plane and in-depth frontal polymerization behaviors of continuous fiber-reinforced epoxy composites. In *POLYMER COMPOSITES*, 2024, vol. 45, no. 4, pp. 3604-3616. ISSN 0272-8397. Dostupné na:

<https://doi.org/10.1002/pc.28013>, Registrované v: WOS

2. [1.1] LUO, Tingting - MA, Yating - CUI, Xiaoyu. Review on Frontal Polymerization Behavior for Thermosetting Resins: Materials, Modeling and Application. In *POLYMERS*, 2024, vol. 16, no. 2, art. no. 185. Dostupné na:

<https://doi.org/10.3390/polym16020185>, Registrované v: WOS

3. [1.1] LUO, Tingting - ZHAO, Yinbo - FU, Kunkun - CUI, Xiaoyu - CHEN, Biqiong. High-efficiency manufacturing of epoxy resins through two-point initiation of frontal polymerization. In *CHEMICAL ENGINEERING JOURNAL*, 2024, vol. 496, no., art. no. 154148. ISSN 1385-8947. Dostupné na:

<https://doi.org/10.1016/j.cej.2024.154148>, Registrované v: WOS

ADCA820 ŠVAJDLENKOVÁ, Helena** - ŠAUŠA, Ondrej - PEER, Gernot - GORSCHÉ, Christian. In situ investigation of the kinetics and microstructure during photopolymerization by positron annihilation technique and NIR- photorheology. In *RSC Advances*, 2018, vol. 8, no. 65, p. 37085-37091. (2017: 2.936 - IF, Q2 - JCR, 0.863 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 2046-2069. Dostupné na: <https://doi.org/10.1039/c8ra07578f>

Citácie:

1. [1.2] ALLONAS, Xavier - HAMMOUDA, Ben - MÉTRAL, Boris - GOLDBACH, Emile - SCHULLER, Anne Sophie - LEY, Christian - CROUTXÉ-BARGHORN, C. Céline. Controlling photopolymerization reaction in layer-by-layer photopolymerization in 3D printing. In *Applied Research*, 2024-08-01, 3, 4, pp.

Dostupné na: <https://doi.org/10.1002/appl.202400004>, Registrované v: SCOPUS

ADCA821 ŠVAJDLENKOVÁ, Helena** - ŠAUŠA, Ondrej - ADICHTCHEV, Sergey V. - SUROVTSEV, Nikolay V. - NOVIKOV, Vladimir N. - BARTOŠ, Josef. On the mutual relationships between molecular probe mobility and free volume and polymer dynamics in organic glass formers: cis-1,4-poly(isoprene). In *Polymers : Open Access Polymer Science Journal*, 2021, vol. 13, no. 2, art. no. 294 [24] p. (2020: 4.329 - IF, Q1 - JCR, 0.770 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2073-4360. Dostupné na:

<https://doi.org/10.3390/polym13020294>

Citácie:

1. [1.1] CHUMAKOVA, Natalia A. - YANKOVA, Tatiana S. - KOKORIN, Alexander I. Rotational Mobility of TEMPO Spin Probe in Polypropylene: EPR

Spectra Simulation and Calculation via Approximated Formulas. In SOLIDS, 2024, vol. 5, no. 4, pp. 499-509. Dostupné na:

<https://doi.org/10.3390/solids5040033>, Registrované v: WOS

2. [1.1] SHENDEROVICH, Ilya G. Keep Your TEMPO Up: Nitroxide Radicals as Sensors of Intermolecular Interactions. In MOLECULES, 2024, vol. 29, no. 21, art. no. 5032. Dostupné na: <https://doi.org/10.3390/molecules29215032>, Registrované v: WOS

3. [1.2] YANKOVA, T. S. - CHUMAKOVA, N. A. - NEDOREZOVA, P. M. - PALAZNIK, O. M. - KOKORIN, A. I. Behavior of Spin Probe TEMPO in Composites Based on Polypropylene with Different Content of Single-Wall Carbon Nanotubes. In Polymer Science Series A, 2024-02-01, 66, 1, pp. 121-128. ISSN 0965545X. Dostupné na: <https://doi.org/10.1134/S0965545X24600418>, Registrované v: SCOPUS

ADCA822 ŠVEC, Peter Jr. - ŠVEC, Peter - HOŠKO, Jozef - JANIČKOVIČ, Dušan. Formation of monophase Fe₂₃B₆-type alloy via crystallization of amorphous Fe-Ni-Nb-B system. In Journal of Alloys and Compounds, 2014, vol. 590, p. 87-91. (2013: 2.726 - IF, Q1 - JCR, 1.064 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2013.12.055>

Citácie:

1. [1.2] MI, Xiao Lei - HU, Liang - WEI, Bing Bo. Microstructure control and physical properties of rapidly solidified ternary Fe₇₃B₂₂Nb₅ alloy. In Zhongguo Kexue Jishu Kexue Scientia Sinica Technologica, 2024-01-01, 54, 2, pp. 304-314. ISSN 16747259. Dostupné na: <https://doi.org/10.1360/SST-2023-0206>, Registrované v: SCOPUS

ADCA823 TER AKOPIAN, G.M. - HAMILTON, J.H. - OGANESSIAN, Yu.Ts. - KORMICKI, J. - POPEKO, G.S. - DANIEL, A.V. - RAMAYYA, A.V. - LU, Q. - BUTLER-MOORE, K. - MA, W.C. - DENG, J.K. - SHI, D. - KLIMAN, Ján - POLHORSKÝ, V. - MORHÁČ, Miroslav - GREINER, W. - SANDELESCU, A. - DOLE, J.D. - ARYAEINEJAD, R. - JOHNSON, N.R. - LEE, I.Y. - MCGOWAN, F.K. Neutron multiplicities and yields of correlated Zr-Ce and Mo-Ba fragment pairs in spontaneous fission of ²⁵²Cf. In Physical Review Letters, 1994, vol. 73, no. 11, p. 1477-1480. Dostupné na: <https://doi.org/10.1103/PhysRevLett.73.1477>

Citácie:

1. [1.1] ASHADUZZAMAN, Md - DI NITTO, Antonio - VARDACI, Emanuele - LARANA, Giovanni - SETARO, Pia Antonella - BANERJEE, Tathagata - VANZANELLA, Antonio - ALIFANO, Giuseppe. Search for True Ternary Fission in Reaction SUP40/SUPAr+SUP208/SUPPb. In APPLIED SCIENCES-BASEL, 2024, vol. 14, no. 18, art. no. 8522. Dostupné na: <https://doi.org/10.3390/app14188522>, Registrované v: WOS

2. [1.1] JINDAL, Chahat - SHARMA, Manoj K. Role of deformations and orientation effects in binary and ternary decay of the ²⁵²Cf nucleus. In PHYSICAL REVIEW C, 2024, vol. 109, no. 5, art. no. 054607. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.054607>, Registrované v: WOS

ADCA824 TER-AKOPIAN, G.M. - HAMILTON, J.H. - OGANESSIAN, Y.T. - DANIEL, A.V. - KORMICKI, J. - RAMAYYA, A.V. - POPEKO, G.S. - BABU, B.R.S. - LU, Q.H. - BUTLERMOORE, K. - MA, W.C. - JONES, E.F. - DENG, J.K. - SHI, D. - KLIMAN, Ján - MORHÁČ, Miroslav - COLE, J.D. - ARYAEINEJAD, R. - JOHNSON, N.R. - LEE, I.Y. - MCGOWAN, F.K. Yields of correlated fragment pairs in spontaneous fission of Cf-252. In Physical Review C, 1997, vol. 55, no. 3, p. 1146-1161. ISSN 2469-9985. Dostupné na:

<https://doi.org/10.1103/PhysRevC.55.1146>

Citácie:

1. [1.1] JINDAL, Chahat - SHARMA, Manoj K. Role of deformations and orientation effects in binary and ternary decay of the 252 Cf nucleus. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 5, art. no. 054607. ISSN 2469-9985.

Dostupné na: <https://doi.org/10.1103/PhysRevC.109.054607>, Registrované v: WOS

2. [1.1] KALDIANI, Payam Mehdipour. Total excitation energy distribution for neutron-induced fission and photo-fission of uranium isotopes. In *APPLIED RADIATION AND ISOTOPES*, 2024, vol. 212, no., art. no. 111464. ISSN 0969-8043. Dostupné na: <https://doi.org/10.1016/j.apradiso.2024.111464>, Registrované v: WOS

ADCA825 TER-AKOPIAN, G.M. - DANIEL, A.V. - FOMICHEV, A.S. - POPEKO, G.S. - RODIN, A.M. - OGANESSIAN, Y.T. - HAMILTON, J.H. - RAMAYYA, A.V. - KORMICKI, J. - HWANG, J.K. - FONG, D. - GORE, P. - COLE, J.D. - JANDEL, A. - KLIMAN, Ján - KRUPA, Ľuboš - RASMUSSEN, J.O. - LEE, IY. - MACCHAVELLI, A.O. - FALLON, P. - STOYER, A.A. - DONANGELO, R. - WU, S.C. - GREINER, W. New data on the ternary fission of Cf-252 from the gammasphere facility. In *Physics of Atomic Nuclei*, 2004, vol. 67, no. 10, p. 1860-1865. ISSN 1063-7788. Dostupné na: <https://doi.org/10.1134/1.1811191>

Citácie:

1. [1.1] ASHADUZZAMAN, Md - DI NITTO, Antonio - VARDACI, Emanuele - LA RANA, Giovanni - SETARO, Pia Antonella - BANERJEE, Tathagata - VANZANELLA, Antonio - ALIFANO, Giuseppe. Search for True Ternary Fission in Reaction SUP40/SUPAr+SUP208/SUPPb. In *APPLIED SCIENCES-BASEL*, 2024, vol. 14, no. 18, art. no. 8522. Dostupné na: <https://doi.org/10.3390/app14188522>, Registrované v: WOS

2. [1.1] JINDAL, Chahat - SHARMA, Manoj K. Role of deformations and orientation effects in binary and ternary decay of the 252 Cf nucleus. In *PHYSICAL REVIEW C*, 2024, vol. 109, no. 5, art. no. 054607. ISSN 2469-9985.

Dostupné na: <https://doi.org/10.1103/PhysRevC.109.054607>, Registrované v: WOS

3. [1.1] PAHLAVANI, M. R. - BABI, M. Saeidi. Study of the SUP4/SUPHe, SUP10/SUPBe, SUP14/SUPC, SUP14/SUPN, and SUP16/SUPO accompanied ternary fission of SUP248/SUPCf isotope in the fragments equatorial geometry. In *CHINESE JOURNAL OF PHYSICS*, 2024, vol. 89, no., pp. 469-480. ISSN 0577-9073. Dostupné na: <https://doi.org/10.1016/j.cjph.2024.03.025>, Registrované v: WOS

ADCA826 THAKUR, Deepika - SHARMA, Anshu - AWASTHI, Abhishek - RANA, Dharmender Singh - SINGH, Dilbag - PANDEY, Sadanand** - THAKUR, Sourbh. Manganese-Doped Zinc Oxide Nanostructures as Potential Scaffold for Photocatalytic and Fluorescence Sensing Applications. In *Chemosensors*, 2020, vol. 8, no. 4, art. no. 120. (2019: 3.108 - IF, Q1 - JCR, 0.568 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2227-9040. Dostupné na: <https://doi.org/10.3390/chemosensors8040120>

Citácie:

1. [1.1] CHANDRASEKAR, L. Bruno - AHAMED, S. Rafi - SHANKAR, N. - KARUNAKARAN, M. - RENGARAJU, Perumalraja - SUNDARAM, P. Shunmuga - SUNG, Lee Jung. Photocatalytic and electrochemical investigation of Mn and Sn co-doped ZnO nanoparticles: Effect of doping concentration. In *JOURNAL OF CRYSTAL GROWTH*, 2024, vol. 644, no., art. no. 127821. ISSN 0022-0248. Dostupné na: <https://doi.org/10.1016/j.jcrysgro.2024.127821>, Registrované v:

WOS

2. [1.1] SYTU, Marion Ryan C. - HAHM, Jong-In. Principles and Applications of ZnO Nanomaterials in Optical Biosensors and ZnO Nanomaterial-Enhanced Biodetection. In BIOSENSORS-BASEL, 2024, vol. 14, no. 10, art. no. 480.

Dostupné na: <https://doi.org/10.3390/bios14100480>, Registrované v: WOS

3. [1.2] CHAMOLA, Shailendra - KALA, Shubhra. Absorbance and fluorescence studies to investigate nickel oxide nanoparticles-glucose interaction. In Aip Conference Proceedings, 2024-08-19, 3149, 1, pp. ISSN 0094243X. Dostupné na: <https://doi.org/10.1063/5.0224796>, Registrované v: SCOPUS

ADCA827 THURZO, Ilja - HRUBČIN, L. - PINČÍK, Emil. Current-voltage characteristics and charge DLTS spectra of proton-bombarded Schottky diodes on semi-insulating GaAs. In Nuclear Instruments and Methods B, 1993, vol. 83, no. 1-2, p. 145-152. ISSN 0168-583X. Dostupné na: [https://doi.org/10.1016/0168-583X\(93\)95918-U](https://doi.org/10.1016/0168-583X(93)95918-U)
Citácie:

1. [1.1] HE, Yuan-Zhi - MA, Chen-Sheng - YIN, Hao. Measuring the radiation hardness of terahertz devices for space applications. In COMMUNICATIONS PHYSICS, 2024, vol. 7, no. 1, art. no. 362. ISSN 2399-3650. Dostupné na: <https://doi.org/10.1038/s42005-024-01856-7>, Registrované v: WOS

ADCA828 TIGHEZZA, AmmarM. - SAJID, Muhammad - NAWAZ, Muhammad - MANZOOR, Mumtaz - JAMIL, Muhammad - NAZAR, Mubashir - MASOOD, Muhammad Kashif - REHMAN, Javed. Study of optoelectronic and thermoelectric properties of K₂XSbCl₆ (X= In, Au) double perovskites for energy conversion devices: A DFT insight. In Physica B: Condensed Matter, 2024, vol. 691, art. no. 416371. (2023: 2.8 - IF, Q2 - JCR, 0.492 - SJR, Q2 - SJR). ISSN 0921-4526. Dostupné na: <https://doi.org/10.1016/j.physb.2024.416371>

Citácie:

1. [1.1] ADNAN, Muhammad - ISHFAQ, Mudassir - ALDAGHFAG, Shatha A. - MISBAH - YASEEN, Muhammad - ALI, H. Elhosiny. Electronic transport properties of Rb₂AsAuX₆ (X = Cl, Br) halide double perovskites for energy harvesting applications. In CHEMICAL PHYSICS LETTERS, 2024, vol. 857, no., art. no. 141733. ISSN 0009-2614. Dostupné na: <https://doi.org/10.1016/j.cplett.2024.141733>, Registrované v: WOS

ADCA829 TIMCHENKO PRIHODKO, Iryna** - DEIEV, O.S. - OLEJNIK, S.M. - POTIN, S.M. - KUSHNIR, V.A. - MYTROCHENKO, V.V. - PEREZHOGIN, S.A. - BOCHAROV, V.A. Isomeric pair 95m,g Nb in the photonuclear reactions on natMo at the bremsstrahlung end-point energy of 38-93 MeV. In Chinese Physics C, 2023, vol. 47, no. 12, art. no. 124002. (2022: 3.6 - IF, Q2 - JCR, 1.231 - SJR, Q1 - SJR). ISSN 1674-1137. Dostupné na: <https://doi.org/10.1088/1674-1137/acfaed>

Citácie:

1. [1.1] CHENG, Hao - PANG, Xuan - SUN, Baohua. The origin of low-abundance neutron-deficient stable isotopes and the relevant cross section measurements. In CHINESE SCIENCE BULLETIN-CHINESE, 2024, vol. 69, no. 21, pp. 3088-3098. ISSN 0023-074X. Dostupné na: <https://doi.org/10.1360/TB-2024-0265>, Registrované v: WOS

ADCA830 TISOVSKÝ, Pavol** - GÁPLOVSKÝ, Anton - GMUCOVÁ, Katarína - NOVOTA, Miroslav - PAVÚK, Milan - WEIS, Martin. Synthesis and characterization of new [1]benzothieno[3,2-b]benzothiophene derivatives with alkyl-thiophene core for application in organic field-effect transistors. In Organic Electronics, 2019, vol. 68, p. 121-128. (2018: 3.495 - IF, Q1 - JCR, 0.937 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1566-1199. Dostupné na: <https://doi.org/10.1016/j.orgel.2018.12.002>

Citácie:

1. [1.1] ELMIR, Loubna - BENTABED-ABABSA, Ghenia - ERB, William - ROISNEL, Thierry - HURVOIS, Jean-Pierre - PICOT, Laurent - THIERY, Valerie - MONGIN, Florence. Deprotonative Metallation of Benzofuran and Benzothiophene Derivatives for the Formation of Tetracyclic and Pentacyclic Heteroaromatic Compounds. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, 2024, vol. 27, no. 27. ISSN 1434-193X. Dostupné na:

<https://doi.org/10.1002/ejoc.202400374>, Registrované v: WOS

2. [1.1] RZEWNICKA, Aneta - DOLOT, Rafal - MIKINA, Maciej - KRYSIK, Jerzy - ZURAWINSKI, Remigiusz. Modulation of Properties in [1]Benzothieno[3,2-b][1]benzothiophene Derivatives through Sulfur Oxidation. In MOLECULES, 2024, vol. 29, no. 15, art. no. 3575. Dostupné na:

<https://doi.org/10.3390/molecules29153575>, Registrované v: WOS

3. [1.1] TOLKACHEV, E. D. - BECKER, C. S. - SONINA, A. A. - KUIMOV, A. D. - KAZANTSEV, M. S. Synthesis and Properties of Furanyl-Substituted [1]Benzothieno[3,2-b][1]benzothiophene Derivatives. In CHEMISTRY FOR SUSTAINABLE DEVELOPMENT, 2024, vol. 32, no. 4, pp. 528-537. ISSN 0869-8538. Dostupné na: <https://doi.org/10.15372/CSD2024587>, Registrované v: WOS

ADCA831 TITOV, A.** - JIRASKOVA, Y. - ZIVOTSKY, O. - BURSIK, J. - JANIČKOVIČ, Dušan. Microstructure and magnetism of Co₂FeAl Heusler alloy prepared by arc and induction melting compared with planar flow casting. In AIP Advances, 2018, vol. 8, no. 4, art. no. 047206. (2017: 1.653 - IF, Q3 - JCR, 0.472 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 2158-3226. Dostupné na: <https://doi.org/10.1063/1.4993698>

Citácie:

1. [1.1] MONDAL, Rohiteswar - DEVAPRIYA, M. S. - PRADHAN, Jhantu - HALDAR, Arabinda - MURAPAKA, Chandrasekhar. Effect of growth rate on structural, magnetic and spin dynamic properties of Co₂FeAl thin films. In THIN SOLID FILMS, 2024, vol. 792, no., art. no. 140268. ISSN 0040-6090. Dostupné na: <https://doi.org/10.1016/j.tsf.2024.140268>, Registrované v: WOS

2. [1.1] SUBBA, Dinesh - SRINIVASAN, Ananthakrishnan. Co-Fe-Al Heusler Alloy Nanowires Prepared by Electrospinning Route for Spintronics Applications. In ACS APPLIED NANO MATERIALS, 2024, vol. 7, no. 24, pp. 28808-28817. Dostupné na: <https://doi.org/10.1021/acsanm.4c06283>, Registrované v: WOS

ADCA832 TOKÁR, Kamil - BRNDIAR, Ján - ŠTICH, Ivan**. Raman Activity of Multilayer Phosphorene under Strain. In ACS Omega, 2019, vol. 4, no. 27, p. 22418-22425. (2018: 2.584 - IF, Q2 - JCR, 0.754 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2470-1343. Dostupné na: <https://doi.org/10.1021/acsomega.9b02969>

Citácie:

1. [1.1] LI, Jian-Gao - GUO, Di - LI, Yun-Mei - CHANG, Kai - ZHANG, Dong-Bo. Phonon Landau Quantization and Enhanced Lifetime in Deformed Graphene. In NANO LETTERS, 2024, vol. 24, no. 38, pp. 11847-11852. ISSN 1530-6984. Dostupné na: <https://doi.org/10.1021/acs.nanolett.4c02744>, Registrované v: WOS

2. [1.1] PARVEEN, Bushra - NAVEED-UL-HAQ, M. - MAHMOOD-UL-HASSAN - HE, Liang. Optical characterization of SnS nanowires by chemical vapor deposition method: A combined experimental and DFT study. In CHEMICAL PHYSICS LETTERS, 2024, vol. 837, no., pp. ISSN 0009-2614. Dostupné na: <https://doi.org/10.1016/j.cplett.2023.141054>, Registrované v: WOS

3. [1.1] YU, Xiangxiang - PENG, Zhuiri - XU, Langlang - SHI, Wenhao - LI, Zheng - MENG, Xiaohan - HE, Xiao - WANG, Zhen - DUAN, Shikun - TONG, Lei - HUANG, Xinyu - MIAO, Xiangshui - HU, Weida - YE, Lei. Manipulating 2D Materials through Strain Engineering. In SMALL, 2024, vol. 20, no. 38, 2402561.

ISSN 1613-6810. Dostupné na: <https://doi.org/10.1002/sml.202402561>,

Registrované v: WOS

- ADCA833 TOKÁR, Kamil - DERZSI, Mariana** - GROCHALA, Wojciech. Comparative computational study of antiferromagnetic and mixed-valent diamagnetic phase of AgF₂: Crystal, electronic and phonon structure and p-T phase diagram. In Computational Materials Science, 2021, vol. 188, no. 11, art. no. 110250. (2020: 3.300 - IF, Q3 - JCR, 0.877 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0927-0256. Dostupné na: <https://doi.org/10.1016/j.commsci.2020.110250>

Citácie:

1. [1.1] MOSKVIN, Alexander S. Jahn-Teller magnets with charge transfer. In FERROELECTRICS, 2024, vol. 618, no. 5, pp. 1187-1206. ISSN 0015-0193.

Dostupné na: <https://doi.org/10.1080/00150193.2024.2305085>, Registrované v: WOS

- ADCA834 TOKÁROVÁ, Zita** - MAXIANOVÁ, Petra - VÁRY, Tomáš - NÁDAŽDY, Vojtech - VÉGH, Daniel - TOKÁR, Kamil. Thiophene-centered azomethines: Structure, photophysical and electronic properties. In Journal of Molecular Structure, 2020, vol. 1204, no. 12, art. no. 127492. (2019: 2.463 - IF, Q3 - JCR, 0.450 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0022-2860. Dostupné na: <https://doi.org/10.1016/j.molstruc.2019.127492>

Citácie:

1. [1.1] THOKOANE, T. L. - NHLAPO, T. A. - KOTSEDI, L. - MOKOENA, T. P. - MAHULE, T. S. - MOKHENA, T. C. - MOYO, T. Structural, magnetic and photoluminescence properties of Zn-Ni ferrites synthesized by hydrothermal method. In JOURNAL OF MOLECULAR STRUCTURE, 2024, vol. 1315, no., art. no. 138906. ISSN 0022-2860. Dostupné na:

<https://doi.org/10.1016/j.molstruc.2024.138906>, Registrované v: WOS

- ADCA835 TOPAL, Ugur - ŠVEC, Peter - CAN, Hava - CELIK, Fatmanur - BIRLIKSEVEN, Cengiz - ŠKORVÁNEK, Ivan - ANDREJKA, František - KUNCA, Branislav - MARCIN, Jozef - ŠVEC, Peter Jr. - GEJDOŠ JANOTOVÁ, Irena - UYGUR, Atilla. Optimization of the Temperature Stability of Fluxgate Sensors for Space Applications. In IEEE sensors journal, 2021, vol. 21, no. 3, p. 2749-2756. (2020: 3.301 - IF, Q2 - JCR, 0.681 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1530-437X. Dostupné na: <https://doi.org/10.1109/JSEN.2020.3024547>

Citácie:

1. [1.1] YANG, R.P. - WANG, H.P. - LUO, W. - LIU, H. - GE, J. - CHUGO, D. - DONG, H.B. Cumulative Error Calibration of Fluxgate Sensor Considering Temperature Effects. In IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT. ISSN 0018-9456, 2024, vol. 73. Dostupné na:

<https://doi.org/10.1109/TIM.2024.3463000>, Registrované v: WOS

- ADCA836 TRAVĚNEC, Igor. Solvability of the two-photon Rabi Hamiltonian. In Physical Review A, 2012, vol. 85, no. 4, art. no. 043805. (2011: 2.878 - IF, Q1 - JCR, 2.316 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.85.043805>

Citácie:

1. [1.1] HAMLYN, Thomas J. - ZHANG, Chi - LESANOVSKY, Igor - LI, Weibin. Tripartite quantum Rabi model with trapped Rydberg ions. In PHYSICAL REVIEW RESEARCH, 2024, vol. 6, no. 2, art. no. 023223. Dostupné na:

<https://doi.org/10.1103/PhysRevResearch.6.023223>, Registrované v: WOS

2. [1.1] HAMMANI, M. - SAKHI, Z. - BENNAI, M. On the two-photon quantum Rabi model at the critical coupling strength. In OPTICAL AND QUANTUM

ELECTRONICS, 2024, vol. 56, no. 1, art. no. 102. ISSN 0306-8919. Dostupné na: <https://doi.org/10.1007/s11082-023-05522-0>, Registrované v: WOS

3. [1.1] LI, Jiahui - CHESI, Stefano. Routes to chaos in the balanced two-photon Dicke model with qubit dissipation. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 5, art. no. 053702. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.109.053702>, Registrované v: WOS

- ADCA837 TRAVĚNEC, Igor - ŠAMAJ, Ladislav. Phase diagram and critical properties of Yukawa bilayers. In *Physical Review E. Statistical, Nonlinear and Soft Matter Physics*, 2015, vol. 92, no. 2, art. no. 022306. (2014: 2.288 - IF, Q1 - JCR, 1.244 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.92.022306>

Citácie:

1. [1.1] KROTT, Leandro B. - PUCCINELLI, Thiago - BORDIN, Jose Rafael. Core-softened colloid under extreme geometrical confinement. In *SOFT MATTER*, 2024, vol. 20, no. 24. ISSN 1744-683X. Dostupné na:

<https://doi.org/10.1039/d4sm00339j>, Registrované v: WOS

- ADCA838 TRAVĚNEC, Igor - MARKOŠ, Peter. Critical conductance distribution in various dimensions. In *Physical Review B*, 2002, vol. 65, no. 11, art. no. 113109. (2001: 3.070 - IF, karentované - CCC). (2002 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.65.113109>

Citácie:

1. [1.1] MANNA, Sourav - JAWOROWSKI, Blazej - NIELSEN, Anne E. B. Many-body localization on finite generation fractal lattices. In *JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT*, 2024, vol. 2024, no. 5, art. no. 053301. ISSN 1742-5468. Dostupné na: <https://doi.org/10.1088/1742-5468/ad4538>, Registrované v: WOS

- ADCA839 TRNOVCOVÁ, Viera - FEDOROV, P.P. - BUCHINSKAYA, I.I. - ŠMATKO, Vasilij - HANIC, František. Fast ionic conductivity of Pb₂:MF₂ (M=Mg, Ba, Cd) and PbF₂:ScF₃ single crystals and composites. In *Solid State Ionics*, 1999, vol. 119, p. 181-189. (1998: 1.080 - IF, karentované - CCC). (1999 - Current Contents).

Citácie:

1. [1.1] GULINA, L.B. - TOLSTOY, V.P. - MURIN, I.V. Crystallization of New Inorganic Fluoride Nanomaterials at Soft Chemistry Conditions and Their Application Prospects. In *RUSSIAN JOURNAL OF INORGANIC CHEMISTRY*. ISSN 0036-0236, MAR 2024, vol. 69, no. 3, SI, p. 285-296. Dostupné na:

<https://doi.org/10.1134/S0036023623603070>, Registrované v: WOS

2. [1.1] KAVUN, V.Y. - UVAROV, N.F. - SLOBODYUK, A.B. - POLYANTSEV, M.M. - ZEMNUKHOVA, L.A. Peculiarities of ion mobility, phase transitions, and ionic conductivity in mixed-cation tetrafluoroantimonates(III). In *RUSSIAN CHEMICAL BULLETIN*. ISSN 1066-5285, MAR 2024, vol. 73, no. 3, p. 465-487. Dostupné na: <https://doi.org/10.1007/s11172-024-4156-3>, Registrované v: WOS

- ADCA840 TSUKUD, Ryota - KOJIMA, Takayuki - XU, Ya - NISHIMURA, Chikashi - KRAJČÍ, Marián - KAMEOKA, Satoshi**. High Catalytic Activities of RENi_{5-x}Al_x (RE = La, Er) and Low Activity of Mg₂Ni Following Hydrogen Uptake: The Role of Absorbed Hydrogen. In *Journal of Physical Chemistry C*, 2021, vol. 125, no. 38, p. 20919-20929. (2020: 4.126 - IF, Q2 - JCR, 1.401 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.1c06484>

Citácie:

1. [1.1] FRECCERO, Riccardo - SPENNATI, Elena - GARBARINO, Gabriella - RIANI, Paola. Intermetallic based materials for Sabatier reaction: Surface understanding, performance assessment and comparison with commercial

catalyst. In *APPLIED CATALYSIS B-ENVIRONMENT AND ENERGY*, 2024, vol. 343, no., art. no. 123532. ISSN 0926-3373. Dostupné na: <https://doi.org/10.1016/j.apcatb.2023.123532>, Registrované v: WOS

2. [1.1] YU, Hongen - LI, Xingguo - ZHENG, Jie. Beyond Hydrogen Storage: Metal Hydrides for Catalysis. In *ACS CATALYSIS*, 2024, vol. 14, no. 5, pp. 3139-3157. ISSN 2155-5435. Dostupné na: <https://doi.org/10.1021/acscatal.3c05696>, Registrované v: WOS

3. [1.1] YU, Hongen - ZHANG, Zichang - JIN, Xu - ZHANG, Xi - JIN, Rumei - LIN, Youyu - XIE, Zewei - HUANG, Yushen - LIU, Tongyu - LI, Xingguo - SUN, Qiang - ZHENG, Jie. Promoting Catalytic Performance of Metal Hydrides for Reversible Hydrogen Storage in N-ethylcarbazole by Electronic Structure and Hydrogen Chemical Potential Tuning. In *ACS CATALYSIS*, 2024, vol. 14, no. 14, pp. 10519-10528. ISSN 2155-5435. Dostupné na: <https://doi.org/10.1021/acscatal.4c02947>, Registrované v: WOS

ADCA841 TURANSKÝ, Robert - KONÔPKA, M. - DOLTSINIS, N.L. - ŠTICH, Ivan - MARX, D. Switching of functionalized azobenzene suspended between gold tips by mechanochemical, photochemical and opto-mechanical means. In *Physical Chemistry Chemical Physics*, 2010, vol. 12, no. 42, p. 13922-13932. (2009: 4.116 - IF, 2.147 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/c0cp00588f>

Citácie:

1. [1.1] BRAND, Michael C. - TROWELL, Hamish G. - PEGG, James T. - GREENFIELD, Jake L. - ODAYBAT, Magdalena - LITTLE, Marc A. - HAYCOCK, Peter R. - AVCI, Gokay - RANKIN, Nicola - FUCHTER, Matthew J. - JELFS, Kim E. - COOPER, Andrew I. - GREENAWAY, Rebecca L. Photoresponsive Organic Cages—Computationally Inspired Discovery of Azobenzene-Derived Organic Cages. In *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*, 2024, vol. 146, no. 44, pp. 30332-30339. ISSN 0002-7863. Dostupné na: <https://doi.org/10.1021/jacs.4c10217>, Registrované v: WOS

2. [1.1] LI, Yiran - XUE, Bin - YANG, Jiahui - JIANG, Julong - LIU, Jing - ZHOU, Yanyan - ZHANG, Junsheng - WU, Mengjiao - YUAN, Yuan - ZHU, Zhenshu - WANG, Zhi Jian - CHEN, Yulan - HARABUCHI, Yu - NAKAJIMA, Tasuku - WANG, Wei - MAEDA, Satoshi - GONG, Jian Ping - CAO, Yi. Azobenzene as a photoswitchable mechanophore. In *NATURE CHEMISTRY*, 2024, vol. 16, no. 3. ISSN 1755-4330. Dostupné na: <https://doi.org/10.1038/s41557-023-01389-6>, Registrované v: WOS

3. [1.1] LIU, Jing - YANG, Jiahui - XUE, Bin - CAO, Yi - CHENG, Wei - LI, Yiran. Understanding the Mechanochemistry of Mechano-Radicals in Self-Growth Materials by Single-Molecule Force Spectroscopy. In *CHEMPHYSCHEM*, 2024, vol. 25, no. 15, art. no. e202300880. ISSN 1439-4235. Dostupné na: <https://doi.org/10.1002/cphc.202300880>, Registrované v: WOS

4. [1.1] TAN, Min - SUN, Feng - ZHAO, Xueyan - ZHAO, Zhibin - ZHANG, Surong - XU, Xiaona - ADIJIANG, Adila - ZHANG, Wei - WANG, Haoyu - WANG, Chuankui - LI, Zongliang - SCHEER, Elke - XIANG, Dong. Conductance Evolution of Photoisomeric Single-Molecule Junctions under Ultraviolet Irradiation and Mechanical Stretching. In *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*, 2024, vol. 146, no. 10, pp. 6856-6865. ISSN 0002-7863. Dostupné na: <https://doi.org/10.1021/jacs.3c13752>, Registrované v: WOS

ADCA842 TURTELLI, R. Sato - VLASÁK, Gabriel - KUBEL, F. - MEHMOOD, N. - KRIEGISCH, M. - GROSSINGER, R. - SASSIK, H. Effect of Rapid Solidification on Magnetostriction and Microstructure in Melt-Spun Fe-Al Ribbons. In *IEEE Transactions on Magnetics*, 2010, vol. 46, no. 2, p. 483-486. (2009: 1.061 - IF, Q2 -

JCR, 0.735 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0018-9464. Dostupné na: <https://doi.org/10.1109/TMAG.2009.2033458>

Citácie:

1. [1.1] PAULISCHIN, Alexander - WURSTER, Stefan - KRENN, Heinz - BACHMAIER, Andrea. *Magnetostrictive Behavior of Severe Plastically Deformed Nanocrystalline Fe-Cu Materials*. In *METALS*, 2024, vol. 14, no. 10, art. no. 1157. Dostupné na: <https://doi.org/10.3390/met14101157>, Registrované v: WOS

ADCA843

UEDA, Hiroshi - OKUNISHI, Kouichi - HARADA, Kenji - KRČMÁR, Roman - GENDIAR, Andrej - YUNOKI, Seiji - NISHINO, Tomotoshi. Finite-m scaling analysis of Berezinskii-Kosterlitz-Thouless phase transitions and entanglement spectrum for the six-state clock model. In *Physical Review E*, 2020, vol. 101, no. 6, art. no. 062111. (2019: 2.296 - IF, Q1 - JCR, 0.958 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.101.062111>

Citácie:

1. [1.1] CHATELAIN, C. *CTMRG study of the critical behavior of an interacting-dimer model*. In *JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT*, 2024, vol. 2024, no. 8, art. no. 083201. ISSN 1742-5468.

Dostupné na: <https://doi.org/10.1088/1742-5468/ad5c5d>, Registrované v: WOS

ADCA844

ULLAH, Sami** - DIN, Muhammad Faraz Ud* - KASI, Jafar Khan - KASI, Ajab Khan - VÉGSÖ, Karol - KOTLAR, Mario - MIČUŠÍK, Matej - JERGEL, Matej - NÁDAŽDY, Vojtech - ŠIFFALOVICH, Peter - MAJKOVÁ, Eva - FAKHARUDDIN, Azhar. Mesoporous SnO₂ Nanoparticle-Based Electron Transport Layer for Perovskite Solar Cells. In *ACS Applied Nano Materials*, 2022, vol. 5, no. 6, p. 7822-7830. (2021: 6.140 - IF, Q2 - JCR, 1.178 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2574-0970. Dostupné na: <https://doi.org/10.1021/acsanm.2c00840>

Citácie:

1. [1.1] DESHMUKH, Lalita - KADAM, S. L. *Microstructural, optical, and morphological investigations of SnO₂ nanomaterials grown by microwave assisted sol gel method*. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 3, art. no. 035925. ISSN 0031-8949. Dostupné na:

<https://doi.org/10.1088/1402-4896/ad24aa>, Registrované v: WOS

2. [1.1] DONG, Chenwei - JUN, Xiayang - YANG, Xiaolin. *Perovskite solar cell enhancement by tin oxide modification via doping sodium trifluoroacetate*. In *INORGANIC CHEMISTRY COMMUNICATIONS*, 2024, vol. 167, no., art. no. 112776. ISSN 1387-7003. Dostupné na:

<https://doi.org/10.1016/j.inoche.2024.112776>, Registrované v: WOS

3. [1.1] HACHIMI, M. A. - TARBI, A. - EL-MRABET, M. - ERGUIG, H. - CHTOUKI, T. *Recent advances in the structural, morphological, linear, and non-linear optical characteristics of SnO₂ thin films deposited by SPT*. In *JOURNAL OF MATERIALS SCIENCE*, 2024, vol. 59, no. 32, pp. 15017-15047. ISSN 0022-2461. Dostupné na: <https://doi.org/10.1007/s10853-024-10073-0>, Registrované v: WOS

4. [1.1] SHAIKH, Azaharuddin Saleem - YADAV, Subhash Chand - SRIVASTAVA, Abhishek - KANWADE, Archana R. - TIWARI, Manish Kumar - RAJORE, Shraddha Manohar - SATRUGHNA, Jena Akash Kumar - DHONDE, Mahesh - SHIRAGE, Parasharam M. *Dynamic synergy of tin in the electron-transfer layer and absorber layer for advancing perovskite solar cells: a comprehensive review*. In *ENERGY ADVANCES*, 2024, vol. 3, no. 7, pp. 1505-1552. Dostupné na:

<https://doi.org/10.1039/d4ya00204k>, Registrované v: WOS

5. [1.1] ZHAO, Chenxu - ZHANG, Hong - KRISHNA, Anurag - XU, Jia - YAO,

Jianxi. Interface Engineering for Highly Efficient and Stable Perovskite Solar Cells. In ADVANCED OPTICAL MATERIALS, 2024, vol. 12, no. 7. ISSN 2195-1071. Dostupné na: <https://doi.org/10.1002/adom.202301949>, Registrované v: WOS

- ADCA845 URBÁNEK, Pavel** - KUŘITKA, Ivo - ŠEVČÍK, Jakub - TOUŠKOVÁ, Jana - TOUŠEK, Jiří - NÁDAŽDY, Vojtech - NÁDAŽDY, Peter - VÉGSÖ, Karol - ŠIFFALOVIČ, Peter - RUTSCH, Radka - URBÁNEK, Michal. An experimental and theoretical study of the structural ordering of the PTB7 polymer at a mesoscopic scale. In Polymer : the International Journal for the Science and Technology of Polymers, 2019, vol. 169, p. 243-254. (2018: 3.771 - IF, Q1 - JCR, 1.039 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0032-3861. Dostupné na: <https://doi.org/10.1016/j.polymer.2019.02.048>

Citácie:

1. [1.1] KAMPTNER, Alexander - SCHARBER, Markus C. - SCHIEK, Manuela. Accurate Determination of the Uniaxial Complex Refractive Index and the Optical Band Gap of Polymer Thin Films to Correlate Their Absorption Strength and Onset of Absorption. In CHEMPHYSICHEM, 2024, vol. 25, art. no. e202400233. ISSN 1439-4235. Dostupné na: <https://doi.org/10.1002/cphc.202400233>, Registrované v: WOS

2. [1.1] LI, Hui-Ping - GAO, Cai-Yan - CHEN, Zhi-Ping - FAN, Xin-Heng - YANG, Lian-Ming. Benzotriazole-based copolymers with an interlocked conformation for mitigating the correlation of thermoelectric parameters. In SYNTHETIC METALS, 2024, vol. 301, no., art. no. 117518. ISSN 0379-6779. Dostupné na: <https://doi.org/10.1016/j.synthmet.2023.117518>, Registrované v: WOS

3. [1.1] LIU, Chenhao - FU, Yiwei - ZHOU, Jinpeng - WANG, Liang - GUO, Chuanhang - CHENG, Jingchao - SUN, Wei - CHEN, Chen - ZHOU, Jing - LIU, Dan - LI, Wei - WANG, Tao. Alkoxythiophene-Directed Fibrillization of Polymer Donor for Efficient Organic Solar Cells. In ADVANCED MATERIALS, 2024, vol. 36, no. 6. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202308608>, Registrované v: WOS

- ADCA846 VAGNER, Pavol - MARKOŠ, Peter - MOŠKO, Martin - SCHAEPPERS, Th. Coherent resistance of a disordered one-dimensional wire:: Expressions for all moments and evidence for non-Gaussian distribution. In Physical Review. - New York : APS Publishing, 2003, vol. 67, no. 16, art. no. 165316. (2002: 3.327 - IF, karentované - CCC). (2003 - Current Contents). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.67.165316>

Citácie:

1. [1.1] CULVER, Adrian B. - SATHE, Pratik - ROY, Rahul. Scattering expansion for localization in one dimension: From disordered wires to quantum walks. In PHYSICAL REVIEW B, 2024, vol. 109, no. 6, art. no. 064201. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.064201>, Registrované v: WOS

- ADCA847 VALENCIA, Natalia Herrera - SRIVASTAV, Vatshal - PIVOLUSKA, Matej - HUBER, Marcus - FRIIS, Nicolai - MCCUTCHEON, Will - MALIK, Mehul. High-Dimensional Pixel Entanglement: Efficient Generation and Certification. In Quantum : the open journal for quantum science, 2020, vol. 4, art. no. 376. (2019: 5.381 - IF, Q1 - JCR, karentované - CCC). (2020 - Current Contents). ISSN 2521-327X. Dostupné na: <https://doi.org/10.22331/q-2020-12-24-376>

Citácie:

1. [1.1] BEZUIDENHOUT, Hadrian - KONI, Mwezi - LEACH, Jonathan - OBANDO, Paola Concha - FORBES, Andrew - NAPE, Isaac. Variational

approach to learning photonic unitary operators. In *OPTICS EXPRESS*, 2024, vol. 32, no. 20, pp. 35567-35578. ISSN 1094-4087. Dostupné na: <https://doi.org/10.1364/OE.532512>, Registrované v: WOS

2. [1.1] COBUCCI, Gabriele - TAVAKOLI, Armin. Detecting the dimensionality of genuine multiparticle entanglement. In *SCIENCE ADVANCES*, 2024, vol. 10, no. 38, art. no. eadq4467. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.adq4467>, Registrované v: WOS

3. [1.1] DUTTA, Arindam - BANERJEE, Subhashish - PATHAK, Anirban. Analysis for Satellite-Based High-Dimensional Extended B92 and High-Dimensional BB84 Quantum Key Distribution. In *ADVANCED QUANTUM TECHNOLOGIES*, 2024, vol. 7, no. 11. Dostupné na: <https://doi.org/10.1002/qute.202400149>, Registrované v: WOS

4. [1.1] FORBES, Andrew - YOUSSEF, Mostafa - SINGH, Sachleen - NAPE, Isaac - UNG, Bora. Quantum cryptography with structured photons. In *APPLIED PHYSICS LETTERS*, 2024, vol. 124, no. 11, art. no. 110501. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0185281>, Registrované v: WOS

5. [1.1] SEVILLA-GUTIERREZ, Carlos - KAIPALATH, Varun Raj - BAGHDASARYAN, Baghdasar - GRAEFE, Markus - FRITZSCHE, Stephan - STEINLECHNER, Fabian. Spectral properties of transverse Laguerre-Gauss modes in parametric down-conversion. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 2, art. no. 023534. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.023534>, Registrované v: WOS

6. [1.1] ZHANG, Zheshen - YOU, Chenglong - MAGANA-LOAIZA, Omar S. - FICKLER, Robert - LEON-MONTIEL, Roberto De J. - TORRES, Juan P. - HUMBLE, Travis S. - LIU, Shuai - XIA, Yi - ZHUANG, Quntao. Entanglement-based quantum information technology: a tutorial. In *ADVANCES IN OPTICS AND PHOTONICS*, 2024, vol. 16, no. 1, pp. 60-162. ISSN 1943-8206. Dostupné na: <https://doi.org/10.1364/AOP.497143>, Registrované v: WOS

ADCA848 VANETSEV, Alexander** - PÖDDER, Peep - OJA, Marek - KHAIDUKOV, Nicholas M. - MAKHOV, Vladimir N. - NAGIRNYI, Vitali - ROMET, Ivo - VIELHAUER, Sebastian - MÄNDAR, Hugo - KIRM, Marco. Microwave-hydrothermal synthesis and investigation of Mn-doped K₂SiF₆ microsize powder as a red phosphor for warm white LEDs. In *Journal of Luminescence*, 2021, vol. 239, art. no. 118389. (2020: 3.599 - IF, Q1 - JCR, 0.652 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0022-2313. Dostupné na: <https://doi.org/10.1016/j.jlumin.2021.118389>

Citácie:

1. [1.1] QIANG, Jiawei - HOU, Lei - WANG, Lin - LI, Yuelan - RUAN, Henghuan - LI, Jinrong - LIAO, Sen - HUANG, Yingheng. Boosting the red emission and luminescent thermostability of GdPO₄:Eu³⁺ phosphors by coating with graphitic carbon nitride. In *JOURNAL OF LUMINESCENCE*, 2024, vol. 273, no., art. no. 120652. ISSN 0022-2313. Dostupné na: <https://doi.org/10.1016/j.jlumin.2024.120652>, Registrované v: WOS

ADCA849 VÉGSÖ, Karol - ŠIFFALOVIC, Peter - MAJKOVÁ, Eva - JERGEL, Matej - BENKOVIČOVÁ, Monika - KOCSIS, Teodora - WEIS, Martin Jr. - LUBY, Štefan - NYGARD, K. - KONOVALOV, O. Nonequilibrium phases of nanoparticle Langmuir films. In *Langmuir*, 2012, vol. 28, no. 28, p. 10409-10414. (2011: 4.186 - IF, Q1 - JCR, 2.051 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/la301764t>

Citácie:

1. [1.1] PATEL, Reken N. - GOODFELLOW, Brian - HEITSCH, Andrew T. - SMILGIES, Detlef-M. - KORGEL, Brian A. Langmuir-Blodgett Transfer of

Nanocrystal Monolayers: Layer Compaction, Layer Compression, and Lattice Stretching of the Transferred Layer. In NANOMATERIALS, 2024, vol. 14, no. 14, art. no. 1192. Dostupné na: <https://doi.org/10.3390/nano14141192>, Registrované v: WOS

ADCA850 VÉGSÖ, Karol** - SHAJI, Ashin - SOJKOVÁ, Michaela - PRIBUSOVÁ SLUŠNÁ, Lenka - VOJTEKOVÁ, Tatiana - HRDÁ, Jana - HALAHOVETS, Yuriy - HULMAN, Martin - JERGEL, Matej - MAJKOVÁ, Eva - WIESMANN, J. - ŠIFFALOVÍČ, Peter. A wide-angle X-ray scattering laboratory setup for tracking phase changes of thin films in a chemical vapor deposition chamber. In Review of Scientific Instruments, 2022, vol. 93, no. 11, art. no. 113909. (2021: 1.843 - IF, Q3 - JCR, 0.606 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0034-6748. Dostupné na: <https://doi.org/10.1063/5.0104673>

Citácie:

1. [1.1] REUS, M.A. - BAIER, T. - LINDENMEIR, C.G. - WEINZIERL, A.F. - BUYAN-ARIVJIKH, A. - WEGENER, S.A. - KOSBAHN, D.P. - REB, L.K. - RUBECK, J. - SCHWARTZKOPF, M. - ROTH, S.V. - MÜLLER-BUSCHBAUM, P. Modular slot-die coater for in situ grazing-incidence x-ray scattering experiments on thin films. In REVIEW OF SCIENTIFIC INSTRUMENTS. ISSN 0034-6748, APR 1 2024, vol. 95, no. 4. Dostupné na: <https://doi.org/10.1063/5.0204673>, Registrované v: WOS

2. [1.1] REUS, M.A. - REB, L.K. - KOSBAHN, D.P. - ROTH, S.V. - MÜLLER-BUSCHBAUM, P. INSIGHT: in situ heuristic tool for the efficient reduction of grazing-incidence X-ray scattering data. In JOURNAL OF APPLIED CRYSTALLOGRAPHY. ISSN 1600-5767, APR 2024, vol. 57, 2, p. 509-528.

Dostupné na: <https://doi.org/10.1107/S1600576723011159>, Registrované v: WOS

3. [1.1] WERZER, O. - KOWARIK, S. - GASSER, F. - JIANG, Z. - STRZALKA, J. - NICKLIN, C. - RESEL, R. X-ray diffraction under grazing incidence conditions. In NATURE REVIEWS METHODS PRIMERS. FEB 29 2024, vol. 4, no. 1.

Dostupné na: <https://doi.org/10.1038/s43586-024-00293-8>, Registrované v: WOS

ADCA851 VÉGSÖ, Karol - ŠIFFALOVÍČ, Peter** - JERGEL, Matej - NÁDAŽDY, Peter - NÁDAŽDY, Vojtech - MAJKOVÁ, Eva. Kinetics of polymer-fullerene phase separation during solvent annealing studied by table-top X-ray scattering. In ACS Applied Materials & Interfaces, 2017, vol. 9, no. 9, p. 8241-8247. (2016: 7.504 - IF, Q1 - JCR, 2.561 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.6b15167>

Citácie:

1. [1.1] KUMAR, Sunil - CHO, Hyekyung - BAYARKHUU, Bolormaa - FERGUSON, Calum T. J. - BYUN, Jeehye. From insoluble to processable: Aminic solvent dissolution of donor-acceptor conjugated network polymers for fabrication of photocatalytic thin film. In CHEMICAL ENGINEERING JOURNAL, 2024, vol. 495, no., art. no. 153569. ISSN 1385-8947. Dostupné na: <https://doi.org/10.1016/j.cej.2024.153569>, Registrované v: WOS

2. [1.1] REUS, Manuel A. - BAIER, Thomas - LINDENMEIR, Christoph G. - WEINZIERL, Alexander F. - BUYAN-ARIVJIKH, Altantulga - WEGENER, Simon A. - KOSBAHN, David P. - REB, Lennart K. - RUBECK, Jan - SCHWARTZKOPF, Matthias - ROTH, Stephan V. - MUELLER-BUSCHBAUM, Peter. Modular slot-die coater for in situ grazing-incidence x-ray scattering experiments on thin films. In REVIEW OF SCIENTIFIC INSTRUMENTS, 2024, vol. 95, no. 4, art. no. 043907. ISSN 0034-6748. Dostupné na: <https://doi.org/10.1063/5.0204673>, Registrované v: WOS

3. [1.1] REUS, Manuel A. - REB, Lennart K. - KOSBAHN, David P. - ROTH, Stephan V. - MUELLER-BUSCHBAUM, Peter. INSIGHT: in situ heuristic tool for

the efficient reduction of grazing-incidence X-ray scattering data. In JOURNAL OF APPLIED CRYSTALLOGRAPHY, 2024, vol. 57, no., pp. 509-528. ISSN 1600-5767. Dostupné na: <https://doi.org/10.1107/S1600576723011159>, Registrované v: WOS

4. [1.1] WU, Fu-Chiao - CHEN, Chun-Yu - WANG, Yu-Wu - YOU, Chun-Bin - WANG, Li-Yun - RUAN, Jrjeng - CHOU, Wei-Yang - LAI, Wei-Chih - CHENG, Horng-Long. *Modulating Neuromorphic Behavior of Organic Synaptic Electrolyte-Gated Transistors Through Microstructure Engineering and Potential Applications. In ACS APPLIED MATERIALS & INTERFACES, 2024, vol. 16, no. 31, pp. 41211-41222. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.4c05966>, Registrované v: WOS*

ADCA852 VENHART, Martin** - ANDREYEV, A. N. - CUBISS, J. G. - WOOD, J. L. - BARZAKH, A. E. - VAN BEVEREN, C. - COCOLIOS, T. E. - DE GROOTE, R. P. - FEDOROV, D. V. - FEDOSSEEV, V. N. - FERRER, R. - FINK, D. A. - GHYS, L. - HUYSE, M. - KÖSTER, U. - LANE, J. - LIBERATI, V. - LYNCH, K. M. - MARSH, B. A. - MOLKANOV, P. L. - PROCTER, T. J. - RAPISARDA, E. - SANDHU, K. - SELIVERSTOV, M. D. - SJÖDIN, A. M. - VAN DUPPEN, P. - VESELSKÝ, M. Decay modes of the 9/2(-) isomeric state in Tl-183. In *Physical Review C*, 2022, vol. 105, no. 3, art. no. 034338. (2021: 3.199 - IF, Q2 - JCR, 1.317 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.105.034338>

Citácie:

1. [1.1] SEIF, W. M. - ABDULGHANY, A. R. *Stability and fine structure of α decay of isomers in the trans-tin region of the nuclear chart and their single-particle structure. In PHYSICAL REVIEW C, 2024, vol. 109, no. 4, art. no. 044326. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.044326>, Registrované v: WOS*

ADCA853 VERMA, Ankit - THAKUR, Sourbh** - MAMBA, Gcina - PRATEEK - GUPTA, Raju Kumar - THAKUR, Pankaj - THAKUR, Vijay Kumar. Graphite modified sodium alginate hydrogel composite for efficient removal of malachite green dye. In *International Journal of Biological Macromolecules*, 2020, vol. 148, p. 1130-1139. (2019: 5.162 - IF, Q1 - JCR, 0.972 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.01.142>

Citácie:

1. [1.1] ABU ELELLA, Mahmoud H. - AAMER, Nema - ABDALLAH, Heba M. - LOPEZ-MALDONADO, Eduardo A. - MOHAMED, Yasser M. A. - EL NAZER, Hossam A. - MOHAMED, Riham R. *Novel high-efficient adsorbent based on modified gelatin/montmorillonite nanocomposite for removal of malachite green dye. In SCIENTIFIC REPORTS, 2024, vol. 14, no. 1, art. no. 1228. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-51321-2>, Registrované v: WOS*

2. [1.1] BADSHAH, Imran - ALAM, Sultan - SHAH, Luqman Ali - ZAHOOOR, Muhammad - UMAR, Muhammad Naveed - ULLAH, Riaz - ALI, Essam A. *Adsorption and catalytic reduction of basic red 1 dye by nickel nanoparticles hydrogel: A study on kinetics, isotherm, and thermodynamics. In DESALINATION AND WATER TREATMENT, 2024, vol. 317, no., art. no. 100067. ISSN 1944-3994. Dostupné na: <https://doi.org/10.1016/j.dwt.2024.100067>, Registrované v: WOS*

3. [1.1] BAGLIONI, Michele - CLEMENTE, Ilaria - TAMASI, Gabriella - BISOZZI, Flavia - COSTANTINI, Sara - FATTORI, Giacomo - GENTILE, Mariangela - ROSSI, Claudio. *Isothiocyanate-Based Microemulsions Loaded into*

Biocompatible Hydrogels as Innovative Biofumigants for Agricultural Soils. In MOLECULES, 2024, vol. 29, no. 16, art. no. 3935. Dostupné na: <https://doi.org/10.3390/molecules29163935>, Registrované v: WOS

4. [1.1] BASEM, Ali - JASIM, Dheyaa J. - MAJDI, Hasan Sh - MOHAMMED, Rawaa M. - AHMED, Mohsen - AL-RUBAYE, Ameer H. - KIANFAR, Ehsan. Adsorption of heavy metals from wastewater by chitosan: A review (Retracted article. See vol. 26, 2025). In *RESULTS IN ENGINEERING*, 2024, vol. 23, no., art. no. 102404. ISSN 2590-1230. Dostupné na: <https://doi.org/10.1016/j.rineng.2024.102404>, Registrované v: WOS

5. [1.1] BRITO DOS SANTOS, Fernanda - PEREZ, Isadora Dias - MCMICHAEL, Philip Spencer - VASCONCELOS FREGOLENTE, Leonardo - MACIEL, Maria Regina Wolf - TAM, Kam Chiu. Synthesis of a Novel Cellulose Nanofiber-Based Composite Hydrogel with Poly(methyl methacrylate-co-methacrylic Acid) for Effective Water Removal from Liquid Fuels. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*, 2024, vol. 63, no. 5, pp. 2210-2222. ISSN 0888-5885. Dostupné na: <https://doi.org/10.1021/acs.iecr.3c02019>, Registrované v: WOS

6. [1.1] CHEN, Xing - ZHANG, Guanghua - HOU, Feifan - ZHU, Junfeng. Highly effective removal of basic fuchsin dye using carboxymethyl konjac glucomannan grafted acrylic acid-acrylamide/montmorillonite composite hydrogel. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, 2024, vol. 277, no., art. no. 134163. ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2024.134163>, Registrované v: WOS

7. [1.1] EL-SHATER, Reda E. - ABDEL-GALEIL, Mohamed M. - GEMEAY, Ali H. - SALAMA, Eman Sh. - KUMAR, Rajesh - MANGOOD, Ahmed H. Synthesis and structural, magnetic, and catalytic characteristics Ag-Cr doped Zn nanoferrite series for dye degradation utilizing advanced oxidation processes. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*, 2024, vol. 35, no. 4, art. no. 271. ISSN 0957-4522. Dostupné na: <https://doi.org/10.1007/s10854-024-11964-3>, Registrované v: WOS

8. [1.1] GAO, Jinghang - WANG, Xuejun - LOU, Tao. Electrospinning of Sodium Alginate/Copper Oxide Nanofibrous Composite Membrane and Its Application of Cationic Dye Adsorption. In *CHEMISTRYSELECT*, 2024, vol. 9, no. 41, art. no. e202403490. ISSN 2365-6549. Dostupné na: <https://doi.org/10.1002/slct.202403490>, Registrované v: WOS

9. [1.1] GARLAND, Nicholas - GORDON, Ross - MCELROY, Con Robert - PARKIN, Alison - MACQUARRIE, Duncan. Optimising Low Temperature Pyrolysis of Mesoporous Alginate-Derived Starbon® for Selective Heavy Metal Adsorption. In *CHEMSUSCHEM*, 2024, vol. 17, no. 17. ISSN 1864-5631. Dostupné na: <https://doi.org/10.1002/cssc.202400015>, Registrované v: WOS

10. [1.1] GOLI, R. - HASHEMINEJAD, H. - ATOUFI, H. D. Combination effects of various oxidants and immobilization on lightweight expanded clay aggregate concrete on the photocatalytic activity of UV/TiO₂ system. In *INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY*, 2024, vol. 21, no. 10, pp. 7025-7038. ISSN 1735-1472. Dostupné na: <https://doi.org/10.1007/s13762-024-05487-x>, Registrované v: WOS

11. [1.1] GONG, Xiaole - LIU, Jingquan - ZHANG, Changbin - CAO, Mengyu - MIN, Yuru - YUAN, Chenyao - HU, Xiaoxia - XU, Jiangtao - LIU, Honglei. Protonated amine and pyrene co-functionalized sodium alginate templated on reduced graphene oxide for highly efficient removal of formaldehyde and acid pollutants. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, 2024, vol. 274, no., art. no. 133377. ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2024.133377>, Registrované v:

WOS

12. [1.1] GUO, Hong - LIU, Yaohua - LV, Yuancai - LIU, Yifan - LIN, Yunzhi - LIU, Minghua. Nitrogen doped sinocalamus oldhami lignin-based activated biochar with high specific surface area: Preparation and its adsorption for malachite green contaminant. In *PROCESS SAFETY AND ENVIRONMENTAL PROTECTION*, 2024, vol. 183, no., pp. 992-1001. ISSN 0957-5820. Dostupné na: <https://doi.org/10.1016/j.psep.2023.12.034>, Registrované v: WOS
13. [1.1] HASSANISAADI, Mohadeseh - KENNEDY, John F. - RABIEI, Ali - RISEH, Roohallah Saberi - TAHERI, Abdolhossein. Nature 's coatings: Sodium alginate as a novel coating in safeguarding plants from frost damages. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, 2024, vol. 267, no., art. no. 131203. ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2024.131203>, Registrované v: WOS
14. [1.1] HOSSAN, Aisha - AL NAMI, Samar Y. Development of Photochromic Authentication Patterns Using Self-Healable Sodium Alginate Hydrogel: Optical Strategy Toward Confidential Information Encryption. In *ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING*, 2024, vol. 49, no. 1, pp. 787-800. ISSN 2193-567X. Dostupné na: <https://doi.org/10.1007/s13369-023-08488-z>, Registrované v: WOS
15. [1.1] HOU, Zehua - ZHOU, Tianjun - BAI, Liangjiu - WANG, Wenxiang - CHEN, Hou - YANG, Lixia - YANG, Huawei - WEI, Donglei. Design of Cellulose Nanocrystal-Based Self-Healing Nanocomposite Hydrogels and Application in Motion Sensing and Sweat Detection. In *ACS APPLIED MATERIALS & INTERFACES*, 2024, vol. 16, no. 28, pp. 37087-37099. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.4c07717>, Registrované v: WOS
16. [1.1] HU, Zhenhua - FAN, Xiaotong - XIANG, Zhouyang - WANG, Luliang - WANG, Shengdan - HE, Chao - ZHANG, Xiaoran - LIU, Yushen. A one-pot strategy for preparation of carboxymethyl xylan-based hydrogels with antibacterial property. In *INDUSTRIAL CROPS AND PRODUCTS*, 2024, vol. 210, no., art. no. 118171. ISSN 0926-6690. Dostupné na: <https://doi.org/10.1016/j.indcrop.2024.118171>, Registrované v: WOS
17. [1.1] KUMAR, Brijesh - SINGH, Narendra - KUMAR, Pramendra. A review on sources, modification techniques, properties and potential applications of alginate-based modified polymers. In *EUROPEAN POLYMER JOURNAL*, 2024, vol. 213, no., art. no. 113078. ISSN 0014-3057. Dostupné na: <https://doi.org/10.1016/j.eurpolymj.2024.113078>, Registrované v: WOS
18. [1.1] KUMAR, Sanjay - JASROTIA, Rohit - VERMA, Ankit - KANDWAL, Abhishek - AHMED, Jahangeer - ALSHEHRI, Saad M. - KUMARI, Swati - GODARA, Sachin Kumar - SHARMA, Pankaj. Superparamagnetic Dy modified ZnFe₂O₄ magnetic nanophotocatalysts for the photocatalytic degradation of crystal violet pollutant. In *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING*, 2024, vol. 130, no. 4, art. no. 258. ISSN 0947-8396. Dostupné na: <https://doi.org/10.1007/s00339-024-07431-9>, Registrované v: WOS
19. [1.1] KUMAWAT, Yogesh Kumar - NAIR, Abhigith - CHOUDHARY, Sonal - NATH, Jyotendra - SHARMA, Kashma - RASOOL, Tanveer - SHARMA, Vishal - MISHRA, Yogendra Kumar - KUMAR, Vijay. Novel hydrogel based on natural hybrid backbones: optimized synthesis and effective adsorbent for the removal of malachite green dye from an aqueous solution. In *JOURNAL OF POLYMER RESEARCH*, 2024, vol. 31, no. 5, art. no. 128. ISSN 1022-9760. Dostupné na: <https://doi.org/10.1007/s10965-024-03973-x>, Registrované v: WOS
20. [1.1] LATIF, Muhammad Jamshed - ALI, Sarmed - JAMIL, Saba - BIBI, Shamsa - JAFAR, Touseef - RASHEED, Ammara - NOREEN, Sadia - BASHIR,

- Arslan - KHAN, Shanza Rauf. Comparative catalytic reduction and degradation with biodegradable sodium alginate based nanocomposite: Zinc oxide/N-doped carbon nitride/ sodium alginate. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, 2024, vol. 254, no., art. no. 127954. ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2023.127954>, Registrované v: WOS
21. [1.1] LI, Risheng - CAO, Xinyi - FAN, Xiaofeng - SHI, Jihe - MENG, Bin - ZHANG, Jin - WANG, Yuan - DU, Jinzeyu - DENG, Xu - ZHENG, Chunli. Study of the Factors Influencing the Adsorption of Heavy Metal Pollutants in Water by Activated Carbon Gel Particles. In *JOURNAL OF ENVIRONMENTAL ENGINEERING*, 2024, vol. 150, no. 7, art. no. 04024024. ISSN 0733-9372. Dostupné na: <https://doi.org/10.1061/JOEEDU.EEENG-7606>, Registrované v: WOS
22. [1.1] MAH, Cheng Yee - AZHAR, Nurul Natasha - WONG, Voon Loong - CHEN, Yi-Lee - YAGOUB, Sami Abdelrahman Musa - TEO, Swee Sen - SU, Shao Feng - YEAP, Swee Pin. Loose and Encased Graphite for Methylene Blue Adsorption: Process Optimization and Principal Component Analysis. In *CHEMICAL ENGINEERING & TECHNOLOGY*, 2024, vol. 47, no. 3, pp. 474-484. ISSN 0930-7516. Dostupné na: <https://doi.org/10.1002/ceat.202300246>, Registrované v: WOS
23. [1.1] MAJEED, Fiza - RAZZAQ, Ammarah - REHMAT, Shabnam - AZHAR, Irfan - MOHYUDDIN, Abrar - RIZVI, Nayab Batool. Enhanced dye sequestration with natural polysaccharides-based hydrogels: A review. In *CARBOHYDRATE POLYMERS*, 2024, vol. 330, no., art. no. 121820. ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2024.121820>, Registrované v: WOS
24. [1.1] MALIK, Sohail Amin - DAR, Aijaz Ahmad - BANDAY, Javid Ahmad. Kinetic and adsorption isotherm studies of Malachite Green dye onto surfactant-tailored alginate hydrogel beads: An influence of surfactant hydrophobicity. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, 2024, vol. 263, no., art. no. 130318. ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2024.130318>, Registrované v: WOS
25. [1.1] MAMIDI, Narsimha - DE SILVA, Fatima Franco - VACAS, Alejandro Bedon - GOMEZ, Javier Adonay Gutierrez - GOO, Naomi Yael Montes - MENDOZA, Daniela Ruiz - REIS, Rui L. - KUNDU, Subhas C. Multifaceted Hydrogel Scaffolds: Bridging the Gap between Biomedical Needs and Environmental Sustainability. In *ADVANCED HEALTHCARE MATERIALS*, 2024, vol. 13, no. 27. ISSN 2192-2640. Dostupné na: <https://doi.org/10.1002/adhm.202401195>, Registrované v: WOS
26. [1.1] MHAMMED, Alzayd Asawer A. - ZGHAIR, Amna N. - ESSA, Ali M. - JAWAD, Ahmed Salim - ABED, May Jaleel - BATOOL, Maryam - JASIM, Layth S. Isotherm and Thermodynamic Analysis of Azur C Dye Adsorption on GO/P(CMC-Co-Am) Nanocomposite. In *JOURNAL OF NANOSTRUCTURES*, 2024, vol. 14, no. 3, pp. 845-856. ISSN 2251-7871. Dostupné na: <https://doi.org/10.22052/JNS.2024.03.015>, Registrované v: WOS
27. [1.1] MOHINI, Goudu - SAHOO, Jitendra Kumar - SAHOO, Shrabhan Kumar - DASH, Ankita - CHOUDHURY, Yasvanti. Removal of congo red and malachite green from aqueous solution using ternary GO/Bi₂O₃/MgO materials by co-precipitation method. In *JOURNAL OF THE INDIAN CHEMICAL SOCIETY*, 2024, vol. 101, no. 10, art. no. 101323. ISSN 0019-4522. Dostupné na: <https://doi.org/10.1016/j.jics.2024.101323>, Registrované v: WOS
28. [1.1] MOLINA-JACINTO, M. - GOMEZ-ESPINOSA, R. M. - ARIZMENDI-COTERO, D. Easy and fast functionalization of polypropylene and its efficiency in

- arsenic (V) removal. In *REVISTA MEXICANA DE INGENIERIA QUIMICA*, 2024, vol. 23, no. 3, pp. 1-13. ISSN 1665-2738. Dostupné na: <https://doi.org/10.24275/rmiq/IA24334>, Registrované v: WOS
29. [1.1] MU, Heyong - ZHU, Linhui - TANG, Yaoji. Efficient Dye Removal by SA-g-P(AA-co-NIPAM/BENT) Composite Hydrogel. In *POLYMER SCIENCE SERIES A*, 2024, vol. 66, no. 3, pp. 387-397. ISSN 0965-545X. Dostupné na: <https://doi.org/10.1134/S0965545X24600893>, Registrované v: WOS
30. [1.1] MUNSHI, Munazza - KHAN, Tanzila - BHAKARE, Madhuri - KADAM, Ankita - SOME, Surajit. Facile one-pot synthesis of a waste copper phthalocyanine-derived nanocomposite for efficiently removing dyes from wastewater. In *NEW JOURNAL OF CHEMISTRY*, 2024, vol. 48, no. 5, pp. 1958-1970. ISSN 1144-0546. Dostupné na: <https://doi.org/10.1039/d3nj05351b>, Registrované v: WOS
31. [1.1] NAZZARI, Estefane Caetano - WERNKE, Gessica - GHIOTTO, Grace Anne Vieira Magalhaes - BERGAMASCO, Rosangela - GOMES, Raquel Guttierres. Hydrogel Biocomposite of Alginate and Mucilage of *Opuntia ficus-indica* Cactus in the Adsorption of Methylene Blue in Aqueous Solution. In *ACS OMEGA*, 2024, vol. 10, no. 1, pp. 627-636. ISSN 2470-1343. Dostupné na: <https://doi.org/10.1021/acsomega.4c07325>, Registrované v: WOS
32. [1.1] PARSAFARD, Nastaran - AGHAJARI, Ghazaleh. La-supported SnO₂-CaO composite catalysts for efficient malachite green degradation under UV-vis light. In *BMC CHEMISTRY*, 2024, vol. 18, no. 1, art. no. 221. Dostupné na: <https://doi.org/10.1186/s13065-024-01332-x>, Registrované v: WOS
33. [1.1] PARSAFARD, Nastaran - SHOORGASHTI, Zahra. The effect of transition metal oxides in the La/TiO₂ structure for the photocatalytic degradation of malachite green under UV and visible light irradiation. In *APPLIED WATER SCIENCE*, 2024, vol. 14, no. 10, art. no. 220. ISSN 2190-5487. Dostupné na: <https://doi.org/10.1007/s13201-024-02285-1>, Registrované v: WOS
34. [1.1] PEIGHAMBARDoust, Seyed Jamaledin - HALIMI, Fateh Karimzadeh - MOHAMMADZADEH PAKDEL, Parisa - SAFARZADEH, Hamid. Decontamination of methylene blue from aqueous media using alginate-bonded polyacrylamide/carbon black nanocomposite hydrogel. In *POLYMERS FOR ADVANCED TECHNOLOGIES*, 2024, vol. 35, no. 3, art. no. e6336. ISSN 1042-7147. Dostupné na: <https://doi.org/10.1002/pat.6336>, Registrované v: WOS
35. [1.1] PENYAN, Wissam L. - JASIM, Layth S. Preparation and characterization of a novel pH-sensitive pectin-grafted-poly (acrylic acid-co-itaconic acid)/MWCNTs-COOH hydrogel composite for adsorption and controlled release of diclofenac sodium. In *CARBON LETTERS*, 2024, vol. 34, no. 5, pp. 1413-1429. ISSN 1976-4251. Dostupné na: <https://doi.org/10.1007/s42823-024-00702-8>, Registrované v: WOS
36. [1.1] PENYAN, Wissam L. - JASIM, Layth S. Synthesis and characterization of a new bio-adsorbent of pectin grafted poly(acrylic acid-co-itaconic acid) hydrogel: swelling properties study and adsorption of ciprofloxacin drug from aqueous solutions. In *MOROCCAN JOURNAL OF CHEMISTRY*, 2024, vol. 12, no. 3, pp. 1281-1303. ISSN 2351-812X. Dostupné na: <https://doi.org/10.48317/IMIST.PRSM/morjchem-v12i3.43754>, Registrované v: WOS
37. [1.1] RAHUL - JINDAL, Rajeev. Efficient removal of toxic dyes malachite green and fuchsin acid from aqueous solutions using Pullulan/CMC hydrogel. In *POLYMER*, 2024, vol. 307, no., art. no. 127203. ISSN 0032-3861. Dostupné na: <https://doi.org/10.1016/j.polymer.2024.127203>, Registrované v: WOS
38. [1.1] RAMIREZ-ALBA, Maria Dolores - ALVAREZ-CABALLERO, Arnau -

RESINA, Leonor - ROMANINI, Michela - MACOVEZ, Roberto - PEREZ-MADRIGAL, Maria M. - ALEMAN, Carlos. Alginate-graft-polyacrylic graft-polyacrylic acid electro-responsive hydrogels: Impact of the conducting polymer and application as hydrogen peroxide sensor. In *EUROPEAN POLYMER JOURNAL*, 2024, vol. 219, no., art. no. 113388. ISSN 0014-3057. Dostupné na: <https://doi.org/10.1016/j.eurpolymj.2024.113388>, Registrované v: WOS

39. [1.1] SAN KHOO, Pui - ILYAS, R. A. - AIMAN, Alif - WEI, Jau Sh. - YOUSEF, Ahmad - ANIS, Nurul - ZUHRI, M. Y. M. - ABRAL, Hairul - SARI, Nasmi Herlina - SYAFRI, Edi - MAHARDIKA, Melbi. Revolutionizing wastewater treatment: A review on the role of advanced functional bio-based hydrogels. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, 2024, vol. 278, no., art. no. 135088. ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2024.135088>, Registrované v: WOS

40. [1.1] SU, Ting - SU, Xinru - SUN, Zhixian - LI, Yuehan - LI, Linwen - SHI, Jian - GENG, Renyong - LI, Huiquan. Facile synthesis of ATTM@ZIF-8 modified pullulan hydrogels for enhanced adsorption of Congo red and malachite green. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, 2024, vol. 279, no., art. no. 135465. ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2024.135465>, Registrované v: WOS

41. [1.1] UYSAL, Emircan - DURSUN, Halide Nur - GULER, Rasim - TAKMAZ, Ugur - KUT, Aysegul - CERİ, Mehmet - UYSAL, Emre Can - GURMEN, Sebahattin. Waste refractory brick material added chitosan/oxidized pullulan complex gel production and removal of heavy metals from waste water. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 26229. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-72187-4>, Registrované v: WOS

42. [1.1] WANG, Jikui - LIU, Wenxiu - HUANG, Yicheng - ZOU, Xinquan - YAN, Jiani - FENG, Yuwei - WANG, Kun. Self-cleaning PDA-Ag@PVDF membranes for oil/water separation and dye adsorption from emulsion. In *NEW JOURNAL OF CHEMISTRY*, 2024, vol. 48, no. 7, pp. 3136-3148. ISSN 1144-0546. Dostupné na: <https://doi.org/10.1039/d3nj05218d>, Registrované v: WOS

43. [1.1] XIE, Boshi - ZHANG, Ziao - LU, Yujie - CUI, Lijuan - XU, Chao - SHI, Weijian - WU, Shuping. Fabrication of Sustainable Sodium Alginate/Polyethyleneimine/Polyvinyl Alcohol Multilayer Composite Electrospun Nanofiber Membrane for Efficient CuSUP2+/SUP Removal. In *SUSTAINABILITY*, 2024, vol. 16, no. 14, art. no. 5993. Dostupné na: <https://doi.org/10.3390/su16145993>, Registrované v: WOS

44. [1.1] YIN, Hang - ZHANG, Miao - WANG, Bowen - ZHANG, Fenge. Effective removal of Cu(II) from water by three-dimensional composite microspheres based on chitosan/sodium alginate/silicon dioxide: Adsorption performance and mechanism. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, 2024, vol. 277, no., art. no. 134585. ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2024.134585>, Registrované v: WOS

45. [1.1] YU, Kejin - YANG, Lina - ZHANG, Siyu - SONG, Hong - WANG, Shengnan - LIU, He. A novel chitosan-based hydrogel microspheres for efficient heavy metal-ion adsorption. In *MATERIALS TODAY COMMUNICATIONS*, 2024, vol. 41, no., art. no. 110488. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2024.110488>, Registrované v: WOS

46. [1.1] ZHANG, Wei - WU, Yuanping - CHEN, Haolin - GAO, Yang - ZHOU, Lean - WAN, Junli - LI, Yifu - TANG, Meiyi - PENG, Yazhou - WANG, Bin - WANG, Hongyu - SUN, Shiquan. Efficient phosphate removal from water by multi-engineered PVA/SA matrix double network hydrogels: Influencing factors

and removal mechanism. In *SEPARATION AND PURIFICATION TECHNOLOGY*, 2024, vol. 336, no., art. no. 126261. ISSN 1383-5866. Dostupné na: <https://doi.org/10.1016/j.seppur.2023.126261>, Registrované v: WOS

47. [1.1] ZHENG, Dan - WANG, Kai - BAI, Bo. A critical review of sodium alginate-based composites in water treatment. In *CARBOHYDRATE POLYMERS*, 2024, vol. 331, no., art. no. 121850. ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2024.121850>, Registrované v: WOS

48. [1.2] ABD, Maryam I. - RADIA, Nadher D. Removal of Crystal Violet Dye from Aqueous Solutions Using a Xanthan Gum-Based Hydrogel Nanocomposite with TiO₂ Nanoparticles as an Eco-Friendly Green Surface. In *Asian Journal of Green Chemistry*, 2024-07-01, 8, 4, pp. 497-511. ISSN 25885839. Dostupné na: <https://doi.org/10.48309/ajgc.2024.462394.1515>, Registrované v: SCOPUS

49. [1.2] ASL, Saeid Zahedi - AHMADPOUR, Gita - SABOOR, Fahimeh Hooriabad - MIRZAYI, Behruz. Bio-Based Hydrogels in Water Treatment. In *ACS Symposium Series*, 2024-11-01, 1486, pp. 175-195. ISSN 00976156. Dostupné na: <https://doi.org/10.1021/bk-2024-1486.ch009>, Registrované v: SCOPUS

50. [1.2] CHIN, Siew Xian - CHIA, Chin Hua - AMINUDDIN ROSLI, Nurul Hazwani - WONGCHOOSUK, Chatchawal. Porous Chitosan Adsorbents for Wastewater Treatment. In *Mechanics and Physics of Porous Materials Novel Processing Technologies and Emerging Applications*, 2024-01-01, pp. 3-34. ISBN [9781774914656, 9781000914771]., Registrované v: SCOPUS

51. [1.2] DEVRE, Pooja V. - GORE, Anil H. Agro-Waste Valorization into Carbonaceous Eco-Hydrogel: A Circular Economy and Zero Waste Tactic for Doxorubicin Removal in Water/Wastewater. In *Langmuir*, 2024-01-09, 40, 1, pp. 141-158. ISSN 07437463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.3c02256>, Registrované v: SCOPUS

52. [1.2] DUBEY, Shikha - MISHRA, Rakesh K. - KAYA, Savaş - RENE, Eldon R. - GIRI, Balendu Shekher - SHARMA, Yogesh C. Microalgae derived honeycomb structured mesoporous diatom biosilica for adsorption of malachite green: Process optimization and modeling. In *Chemosphere*, 2024-05-01, 355, pp. ISSN 00456535. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2024.141696>, Registrované v: SCOPUS

53. [1.2] FATIMA, Qurat ul Ain - KHAN, Saeed Ahmad - KHAN, Mansoor - SUN, Wei - ULLAH, Riaz - SHAHAT, Abdelaaty A. - ALI, Essam A. - NISHAN, Umar - BADSHAH, Amir. Optimization of Gelatin-based 3D hydrogel scaffold for effective removal of Methylene Blue and Alizarin Red S from aqueous solutions and food samples: kinetic and isotherm investigations. In *Polymer Bulletin*, 2024-01-01, pp. ISSN 01700839. Dostupné na: <https://doi.org/10.1007/s00289-024-05541-1>, Registrované v: SCOPUS

54. [1.2] HUA, B. Y. - WEI, H. L. - HU, C. W. - ZHANG, Y. Q. - YANG, S. - WANG, G. - SHEN, Y. M. - LI, J. J. Preparation of pH/temperature-sensitive semi-interpenetrating network hydrogel adsorbents from sodium alginate via photopolymerization for removing methylene blue. In *International Journal of Environmental Science and Technology*, 2024-01-01, 21, 1, pp. 227-244. ISSN 17351472. Dostupné na: <https://doi.org/10.1007/s13762-022-04741-4>, Registrované v: SCOPUS

55. [1.2] MOGHARBEL, Amal T. - ASHOUR, Gadeer R.S. - ALKHAMIS, Kholood - AL-BONAYAN, Ameena M. - ABUALNAJA, Matokah M. - QURBAN, Jihan - KATOUAH, Hanadi A. - EL-METWALY, Nashwa M. Preparation of Self-Healing Anthocyanidin-Containing Thermochromic Alginate Ink for Authentication Purposes. In *ACS Omega*, 2024-01-09, 9, 1, pp. 1562-1572. Dostupné na: <https://doi.org/10.1021/acsomega.3c07874>, Registrované v: SCOPUS

56. [1.2] MOHAMMADBAGHERI, Zahra - RAHMATI, Abbas - SAEEDI, Shaghayegh - MOVAHEDI, Behrooz. Bio-based nanocomposite hydrogels derived from poly (glycerol tartrate) and cellulose: Thermally stable and green adsorbents for efficient adsorption of heavy metals. In *Chemosphere*, 2024-02-01, 349, pp. ISSN 00456535. Dostupné na:

<https://doi.org/10.1016/j.chemosphere.2023.140956>, Registrované v: SCOPUS

57. [1.2] PRIYA, A. K. - MURUGANANDAM, M. - SURESH, Sagadevan. Bio-derived carbon-based materials for sustainable environmental remediation and wastewater treatment. In *Chemosphere*, 2024-08-01, 362, pp. ISSN 00456535. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2024.142731>, Registrované v: SCOPUS

58. [1.2] ZAKARIA, Aiza Farhani - RAHMAN, Norizah Abdul - YAHAYA, Noorfatimah - IBRAHIM, Wan Nazihah Wan - LOH, Saw Hong - SHUKRI, Dyia Syaleyana Md - KAMARUZAMAN, Sazlinda. SODIUM ALGINATE/ β -CYCLODEXTRIN AS SUPRAMOLECULAR HYDROGEL FOR ADSORPTION OF PERFLUOROOCTANE SULFONATE. In *Malaysian Journal of Analytical Sciences*, 2024-01-01, 28, 5, pp. 1150-1168. ISSN 13942506., Registrované v: SCOPUS

ADCA854 VESELSKÝ, M. - RUBOVIČ, P. - PETOUSIS, V. - DA LUZ, H. Natal - BURIAN, P. - MÁNEK, P. - MEDUNA, L. - SMOLYANSKIY, P. - RAABE, R. - CAMAIANI, A. - KLIMO, J. - POLESHCHUK, O. - YOUSSEF, A. - CEULEMANS, A. - LATIF, M. - JANDEL, M. - BÍROVÁ, Monika - HERZÁŇ, Andrej - ŠPAČEK, Andrej - VENHART, Martin - PELLEGRITI, M. G. - ANDREYEV, A. N. - PAGE, C. - SOULIOTIS, G. A. - LICA, R. Determination of fission barrier height of ^{210}Fr and ^{210}Ra via neutron measurement. In *Physical Review C*, 2024, vol. 109, no.1, art. no. 014618. (2023: 3.2 - IF, Q2 - JCR, 1.223 - SJR, Q1 - SJR). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.014618>

Citácie:

1. [1.1] WANG, Ning - LIU, Min. Fission barriers with the Weizsacker-Skyrme mass model. In *CHINESE PHYSICS C*, 2024, vol. 48, no. 9, art. no. 094103. ISSN 1674-1137. Dostupné na: <https://doi.org/10.1088/1674-1137/ad53b8>, Registrované v: WOS

ADCA855 VESELSKÝ, Martin - KLIMO, Jozef - MA, Y.-G. - SOULIOTIS, G.A. Constraining the equation of state of nuclear matter from fusion hindrance in reactions leading to the production of superheavy elements. In *Physical Review C.*, 2016, vol. 94, no. 6, art. no. 064608. (2015: 3.146 - IF, Q2 - JCR, 1.993 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.94.064608>

Citácie:

1. [1.1] HASHEM, A. S. - HASSANIEN, R. N. - SEIF, W. M. Impact of the stiffness of equation of state on saturation properties of asymmetric nuclear matter and Urca cooling in neutron stars. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 11, art. no. 115306. ISSN 0031-8949. Dostupné na:

<https://doi.org/10.1088/1402-4896/ad8785>, Registrované v: WOS

2. [1.1] MA, Xiao-Rong - SUN, Shuai - AN, Rong - CAO, Li-Gang. Correlation between the charge radii difference in mirror partner nuclei and the symmetry energy slope. In *CHINESE PHYSICS C*, 2024, vol. 48, no. 8, art. no. 084104. ISSN 1674-1137. Dostupné na: <https://doi.org/10.1088/1674-1137/ad47a8>, Registrované v: WOS

3. [1.1] SEIF, W. M. - HASHEM, A. S. - ABUALHAMD, H. A. Mass-radius relation of neutron stars and massive pulsars with realistic equation of state. In *JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS*, 2024, vol. 51,

no. 6, art. no. 065203. ISSN 0954-3899. Dostupné na:

<https://doi.org/10.1088/1361-6471/ad3c5a>, Registrované v: WOS

- ADCA856 VESELSKÝ, Martin - MA, Y.G. Symmetry energy and nucleon-nucleon cross sections. In Physical Review C, 2013, vol. 87, no. 3, art. no. 034615. (2012: 3.715 - IF, 2.769 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.87.034615>

Citácie:

1. [1.1] DIVARIS, M. - KANAKIS-PEGIOS, A. - MOUSTAKIDIS, Ch. C. Constraints on the isovector properties of finite nuclei from neutron star observations. In PHYSICAL REVIEW C, 2024, vol. 109, no. 5, art. no. 055805. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.055805>, Registrované v: WOS

- ADCA857 VESELSKÝ, Martin - ANDREYEV, A.N. - ANTALIC, S. - HUYSE, M. - MOELLER, P. - NISHIO, K. - SIERK, A.J. - VAN DUPPEN, P. - VENHART, Martin. Fission-barrier heights of neutron-deficient mercury nuclei. In Physical Review C. Nuclear physics, 2012, vol. 86, no. 2, art. no. 024308. (2011: 3.308 - IF, 2.962 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.86.024308>

Citácie:

1. [1.1] DA COSTA, Philippe - BENNACEUR, Karim - MEYER, Jacques - RYSENS, Wouter - BENDER, Michael. Impact of choices for center-of-mass correction energy on the surface energy of Skyrme energy density functionals. In PHYSICAL REVIEW C, 2024, vol. 109, no. 3, art. no. 034316. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.109.034316>, Registrované v: WOS

- ADCA858 VIDA, Gy.J. - SIMON, E. - RÓZSA, L. - PALOTÁS, Krisztián - SZUNYOGH, L. Domain-wall profiles in Co/Ir-n/Pt(111) ultrathin films: Influence of the Dzyaloshinskii-Moriya interaction. In Physical Review B, 2016, vol. 94, no. 21, art. no. 214422. (2015: 3.718 - IF, Q1 - JCR, 2.377 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.94.214422>

Citácie:

1. [1.1] KAPEGHIAN, Jesse - AMOROSO, Danila - OCCHIALINI, Connor A. - MARTINS, Luiz G. P. - SONG, Qian - SMITH, Jesse S. - SANCHEZ, Joshua J. - KONG, Jing - COMIN, Riccardo - BARONE, Paolo - DUPE, Bertrand - VERSTRAETE, Matthieu J. - BOTANA, Antia S. Effects of pressure on the electronic and magnetic properties of bulk NiI₂. In PHYSICAL REVIEW B, 2024, vol. 109, no. 1, art. no. 014403. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.014403>, Registrované v: WOS

- ADCA859 VIDAL-CRESPO, A. - MANCHÓN-GORDÓN, A. F.** - BLÁZQUEZ, J. S. - IPUS, J. J. - ŠVEC, Peter - CONDE, C. F. Thermal arrest analysis of the reverse martensitic transformation in a Ni₅₅Fe₁₉Ga₂₆ Heusler alloy obtained by melt-spinning. In Journal of Thermal Analysis and Calorimetry, 2023, vol. 148, no. 6, p. 2367-2375. (2022: 4.4 - IF, Q1 - JCR, 0.753 - SJR, Q1 - SJR). ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/s10973-022-11889-1>

Citácie:

1. [1.1] WEDERNI, A. - IPATOV, M. - KHITOUNI, M. - SUNOL, J. J. Effects of thermal cycling on the thermal and magnetic response of Ni-Mn-Sn-Pd alloys. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 2024, vol. 149, no. 20, pp. 11421-11428. ISSN 1388-6150. Dostupné na:

- <https://doi.org/10.1007/s10973-023-12580-9>, Registrované v: WOS
- ADCA860 VIDIELLABARRANCO, A. - MOYACESSA, H. - BUŽEK, Vladimír. Interaction of superpositions of coherent states of light with 2-level atoms. In Journal of Modern Optics, 1992, vol. 39, no. 7, p. 1441-1459. ISSN 0950-0340. Dostupné na: <https://doi.org/10.1080/09500349214551481>
- Citácie:
1. [1.1] BOCANEGRA-GARAY, Ivan A. - CASTILLO-CELEITA, Miguel - NEGRO, J. - NIETO, L. M. - GOMEZ-RUIZ, Fernando J. Exploring supersymmetry: Interchangeability between Jaynes-Cummings and anti-Jaynes-Cummings models. In PHYSICAL REVIEW RESEARCH, 2024, vol. 6, no. 4, art. no. 043218. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.043218>, Registrované v: WOS
2. [1.2] LARSON, Jonas - MAVROGORDATOS, Themistoklis. The Jaynes-Cummings model and its descendants, second edition: Modern research directions. In Jaynes Cummings Model and Its Descendants Second Edition Modern Research Directions, 2024-04-30, pp. 1-561. ISBN [9780750364485, 9780750364508]. Dostupné na: <https://doi.org/10.1088/978-0-7503-6452-2>, Registrované v: SCOPUS
- ADCA861 VLASÁK, Gabriel - JANIČKOVIČ, Dušan - ŠVEC, Peter. Magnetostrictions and Curie temperature measurements of (Fe-Co)_{91-x}Mo₈Cu₁B_x alloys with varying atomic Fe/Co ratio. In Journal of Magnetism and Magnetic Materials, 2008, vol. 320, no. 20, p. E754-E757. (2007: 1.704 - IF, Q2 - JCR, 0.711 - SJR, Q2 - SJR, karentované - CCC). (2008 - Current Contents, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2008.04.172>
- Citácie:
1. [1.1] BOBUYOK, S. A. - SURZHIKOV, A. P. - NIKOLAEV, E. V. - MALYSHEV, A. V. - LYSENKO, E. N. Comparative Analysis of Experimental Methods for Determining the Curie Temperature of Ferrite Materials. In RUSSIAN JOURNAL OF NONDESTRUCTIVE TESTING, 2024, vol. 60, no. 10, pp. 1119-1128. ISSN 1061-8309. Dostupné na: <https://doi.org/10.1134/S1061830924602733>, Registrované v: WOS
- ADCA862 VLASÁK, Gabriel - ŠVEC, Peter - JANIČKOVIČ, Dušan. Magnetostriction as important quantity in transformations of Fe_{73.5-x}Ni_xCu₁Nb₃Si_{13.5}B₉ finemets into nanocrystalline phases. In Materials Sciences and Engineering A, 2004, vol. 375-377, p. 1149-1152. Dostupné na: <https://doi.org/10.1016/j.msea.2003.10.204>
- Citácie:
1. [1.1] ZHAO, Min - PANG, Jing - ZHANG, Wei - XIANG, Qingchun - REN, Yinglei - LI, Xiaoyu - QIU, Keqiang. Tailoring the microstructure and soft magnetic properties of (Fe_{0.83}B_{0.11}Si_{0.02}P_{0.03}C_{0.01})_{99.5}Cu_{0.5} nanocrystalline alloy based on the rapid annealing. In JOURNAL OF NON-CRYSTALLINE SOLIDS, 2024, vol. 629, no., art. no. 122888. ISSN 0022-3093. Dostupné na: <https://doi.org/10.1016/j.jnoncrysol.2024.122888>, Registrované v: WOS
- ADCA863 VOURLA, P. - HRISTOFOROU, E. - K TENA, A. - ŠVEC, Peter - MANGIOROU, E. Dependence of Magnetic Permeability on Residual Stresses in Welded Steels. In IEEE Transactions on Magnetism, 2017, vol. 53, no. 4, art. no. 7742409. (2016: 1.243 - IF, Q3 - JCR, 0.653 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0018-9464. Dostupné na: <https://doi.org/10.1109/TMAG.2016.2628025>
- Citácie:
1. [1.1] MARTINEZ-ORTIZ, P. - LE MANH, Tu - PEREZ-BENITEZ, J. A. Magnetic field patterns as a tool for stress estimation in steel samples. In MEASUREMENT SCIENCE AND TECHNOLOGY, 2024, vol. 35, no. 1, art. no.

015022. ISSN 0957-0233. Dostupné na:

<https://doi.org/10.1088/1361-6501/ad016d>, Registrované v: WOS

2. [1.1] ZHANG, Juwei - LIU, Penghao. Quantitative Study on Cross Section Damage of Steel Wire Rope Based on Magnetic Signal Characteristics Under Weak Magnetic Excitation. In IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, 2024, vol. 73, no., art. no. 3509607. ISSN 0018-9456.

Dostupné na: <https://doi.org/10.1109/TIM.2024.3353842>, Registrované v: WOS

ADCA864

VRETENÁR, Viliam - KUBIČÁR, Ľudovít - BOHÁČ, Vlastimil - TIANO, P. Thermophysical analysis of gioia marble in dry and water-saturated states by the pulse transient method. In International Journal of Thermophysics, 2007, vol. 28, no. 5, p. 1522-1535. Dostupné na: <https://doi.org/10.1007/s10765-007-0155-5>

Citácie:

1. [1.1] ZHANG, Ruixin - WANG, DuoJun - TAN, Huiwen - LU, Hongbin - MIAO, Sheqiang - GAO, Xiang - HAN, Kenan - CHEN, Peng - LIU, Chuanjiang - CAI, Nao. Anomalous thermal structures of subduction zones revealed by thermal properties of clinoclone at high temperature and pressure. In GEOLOGICAL SOCIETY OF AMERICA BULLETIN, 2024, vol. 136, no. 5-6, pp. 2281-2290. ISSN 0016-7606. Dostupné na: <https://doi.org/10.1130/B37134.1>, Registrované v:

WOS

ADCA865

VRŠANSKÝ, Peter** - VRŠANSKÁ, Lucia - VASILENKO, D. V. - PUŠKELOVÁ, Ľubica - BIRON, Adrián. An isolated Cretaceous analogue of Madagascar on the Adria-Turkey microcontinent indicated by fossils in Brezina, Algeria. In Palaeontographica : Abteilung A - Paläozoologie Stratigraphie, 2021, vol. 321, no. 1-6, p. 19-35. (2020: 2.176 - IF, Q1 - JCR, 0.509 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0375-0442. Dostupné na: <https://doi.org/10.1127/pala/2021/0107>

Citácie:

1. [1.1] BEZERRA, Francisco Irineudo - MENDES, Marcio. A palaeoecological analysis of the Cretaceous (Aptian) insect fauna of the Crato Formation, Brazil. In PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY, 2024, vol. 641, no., art. no. 112134. ISSN 0031-0182. Available on:

<https://doi.org/10.1016/j.palaeo.2024.112134>, Registrované v: WOS

2. [1.1] SENDI, Hemen. Vitisma coriacea sp.n. (Insecta: Dictyoptera) from the mid-Cretaceous in northern Myanmar, first record of the genus in amber. In ZOOTAXA, 2024, vol. 5437, no. 2, pp. 294-300. ISSN 1175-5326. Available on: <https://doi.org/10.11646/zootaxa.5437.2.8>, Registrované v: WOS

3. [1.1] XIA, Shuang - SENDI, Hemen - ZHANG, Xiaofang - XIAO, Chuantao - LUO, Cihang. A new cockroach Maculosala circularis gen. et sp. n. (Blattaria: Corydiidae) from mid-Cretaceous Kachin amber of northern Myanmar. In PALAEOONTOGRAPHICA ABTEILUNG A-PALAOZOOLOGIE-STRATIGRAPHIE, 2024, vol. 329, no. 1-2, pp. 9-18. ISSN 0375-0442. Available on:

<https://doi.org/10.1127/pala/2024/0155>, Registrované v: WOS

4. [1.1] ZHANG, Jiaming - CHEN, Lei - LUO, Cihang. Cockroach Clypeblattula panda gen. et sp. n. (Blattaria: Blattulidae) from the Lower Cretaceous Laiyang Formation of China. In CRETACEOUS RESEARCH, 2024, vol. 160, no., art. no. 105907. ISSN 0195-6671. Available on:

<https://doi.org/10.1016/j.cretres.2024.105907>, Registrované v: WOS

5. [1.1] ZHANG, Yuchen - CHEN, Lei - WANG, Zhengdong - FANG, Jing - LUO, Cihang. A new cockroach (Blattaria: Mesoblattinidae: Spinaeblattina) from the Lower Cretaceous Laiyang Formation of China. In CRETACEOUS RESEARCH, 2024, vol. 156, no., art. no. 105808. ISSN 0195-6671. Available on:

<https://doi.org/10.1016/j.cretres.2023.105808>, Registrované v: WOS

- ADCA866 VRŠANSKÝ, Peter* - SENDI, Hemen** - ARISTOV, Danil* - BECHLY, Günter - MÜLLER, Patrick - ELLENBERGER, Sieghard - AZAR, Dany - UEDA, K. - BARNA, Peter - GARCIA, Thierry. Ancient roaches further exemplify 'no land return'; in aquatic insects. In Gondwana Research, 2019, vol. 68, p. 22-33. (2018: 6.478 - IF, Q1 - JCR, 3.612 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1342-937X. Dostupné na: <https://doi.org/10.1016/j.gr.2018.10.020>
Citácie:
1. [1.1] BEZERRA, Francisco Irineudo - MENDES, Marcio. A palaeoecological analysis of the Cretaceous (Aptian) insect fauna of the Crato Formation, Brazil. In PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY, 2024, vol. 641, no., art. no. 112134. ISSN 0031-0182. Available on: <https://doi.org/10.1016/j.palaeo.2024.112134>, Registrované v: WOS
- ADCA867 WALLS, B. - LUBBEN, O. - PALOTÁS, Krisztián - FLEISCHER, K. - WALSHE, K. - SHVETS, I.V. Oxygen vacancy induced surface stabilization: (110) terminated magnetite. In Physical Review B, 2016, vol. 94, no. 16, art. no. 165424. (2015: 3.718 - IF, Q1 - JCR, 2.377 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.94.165424>
Citácie:
1. [1.1] WIESENER, Philipp - FORSTER, Stefan - MERKEL, Milena - LAMMERS, Bertram Schulze - AMIRJALAYER, Saeed - FUCHS, Harald - MONIG, Harry. Standardization of Chemically Selective Atomic Force Microscopy for Metal Oxide Surfaces. In ACS NANO, 2024, vol. 18, no. 33, pp. 21948-21956. ISSN 1936-0851. Dostupné na: <https://doi.org/10.1021/acsnano.4c03155>, Registrované v: WOS
- ADCA868 WANG, Mengru* - LI, Bo* - ŠIFFALOVIČ, Peter - CHEN, Lung-Chien - CAO, Guozhong - TIAN, Jianjun**. Monolayer-like Hybrid Halide Perovskite Films Prepared by Additive Engineering without Antisolvents for Solar Cells. In Journal of Materials Chemistry C, 2018, vol. 6, no. 31, p. 15386-15394. (2017: 5.976 - IF, Q1 - JCR, 1.917 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 2050-7526. Dostupné na: <https://doi.org/10.1039/c8ta04794d>
Citácie:
1. [1.1] MA, Guohua - HOU, Yanna - LUO, Zhenwang - WU, Junhui - MIAO, Yuchen - YANG, Cheng - WANG, Xu - ZHENG, Fei - SHAFIQUE, Shareen - ZHAO, Feiyu - HU, Ziyang. High-Sensitivity and Fast-Response Photomultiplication Type Photodetectors Based on Quasi-2D Perovskite Films for Weak-Light Detection. In SMALL, 2024, vol. 20, no. 50. ISSN 1613-6810. Dostupné na: <https://doi.org/10.1002/sml.202405820>, Registrované v: WOS
2. [1.1] SADEGH, Faranak - EBIC, Murat - PROCHOWICZ, Daniel - ANS, Muhammad - KRUSZYNSKA, Joanna - SATAPATHI, Soumitra - MOGHADAM, Majid - YADAV, Pankaj - AKIN, Seckin. Acetate-based ionic liquid engineering for efficient and stable CsPbI₂Br perovskite solar cells with an unprecedented fill factor over 83%. In MATERIALS TODAY PHYSICS, 2024, vol. 40, no., art. no. 101301. ISSN 2542-5293. Dostupné na: <https://doi.org/10.1016/j.mtphys.2023.101301>, Registrované v: WOS
3. [1.1] WANG, Yunfan - ZENG, Zixin - ZHANG, Yuxuan - ZHANG, Zhuoqiong - BI, Leyu - HE, Aoxi - CHENG, Yuanhang - JEN, Alex K.Y. - HO, Johnny C. - TSANG, Sai-Wing. Unlocking the Ambient Temperature Effect on FA-Based Perovskites Crystallization by In Situ Optical Method. In ADVANCED MATERIALS, 2024, vol. 36, no. 17. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202307635>, Registrované v: WOS
4. [1.2] RAMLI, Azliana - WAN ISMAIL, Wan Izhan Nawawi - SEPEAI, Suhaila -

ABDUL YAMI, Nur Fatin Najihah - ALI, Ab Malik Marwan. Exploring the effect of the bromo- and iodo-halide(s) in the two-dimensional hybrid perovskites (H₂-2AMP)PbX₄ (X=Br and I) into the structural, chemical and optical properties. In *Journal of Solid State Chemistry*, 2024-10-01, 338, pp. ISSN 00224596. Dostupné na: <https://doi.org/10.1016/j.jssc.2024.124877>, Registrované v: SCOPUS

ADCA869

WANG, Tao - ZHENG, Daming - VÉGSÖ, Karol - BAILLARD, Guillaume - NÁDAŽDY, Peter - MRKÝVKOVÁ, Naďa, Tesařová - ŠIFFALOVÍČ, Peter - CHEN, Yimu - COOLEN, Laurent - PAUPORTÉ, Thierry - FENG, Fu. A dual strategy to enhance the photoelectric performance of Perovskite-Based photodetectors for potential applications in optical communications. In *Chemical Engineering Journal*, 2024, vol. 488, no. 15, art. no. 151068. (2023: 13.3 - IF, Q1 - JCR, 2.852 - SJR, Q1 - SJR). ISSN 1385-8947. Dostupné na: <https://doi.org/10.1016/j.cej.2024.151068>

Citácie:

1. [1.1] ABD EL-RAHMAN, A. M. - MOHAMED, S. H. - IBRAHIM, A. - ALHAZIME, Ali A. - AWAD, M. A. Optoelectronic characteristics of In₂O₃/CuO thin films for enhanced vis-light photodetector. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*, 2024, vol. 35, no. 29, art. no. 1910. ISSN 0957-4522. Dostupné na: <https://doi.org/10.1007/s10854-024-13546-9>, Registrované v: WOS
2. [1.1] BUER, Albert Buertey - BOATENG, Nana Yaw Asare - ASAFO-ADJEI, Benjamin - KWON, Sooncheol - JO, Jea Woong. Recent progress in the development of metal halide perovskite electronics for sensing applications. In *MATERIALS TODAY ELECTRONICS*, 2024, vol. 10, no., art. no. 100122. Dostupné na: <https://doi.org/10.1016/j.mtelec.2024.100122>, Registrované v: WOS
3. [1.1] PAUPORTE, Thierry - ZHENG, Daming - LIU, Min - CRESP, Marie. Deciphering Phase Growth Direction of Perovskite Thin Films for Opto-Electronic Applications. In *2024 IEEE 14TH INTERNATIONAL CONFERENCE NANOMATERIALS: APPLICATIONS & PROPERTIES, NAP 2024 : 14th International Conference Nanomaterials: Applications & Properties*, 2024, vol., no., art. no. NEE04. Dostupné na: <https://doi.org/10.1109/NAP62956.2024.10739743>, Registrované v: WOS
4. [1.1] ZHAO, Wenxiao - LIN, Zexi - ZHANG, Liyan - LIN, Xing - WANG, Jiawei - XU, Sheng - CHEN, Enguo - WU, Teng - YE, Yun - CHEN, Huipeng. Bioinspired Three-Mode Photosensitive Synaptic LED for Optical Information Processing. In *NANO LETTERS*, 2024, vol. 24, no. 44, pp. 14109-14117. ISSN 1530-6984. Dostupné na: <https://doi.org/10.1021/acs.nanolett.4c04444>, Registrované v: WOS

ADCA870

WANG, Tao - ZHENG, Daming** - VÉGSÖ, Karol - MRKÝVKOVÁ, Naďa, Tesařová - ŠIFFALOVÍČ, Peter - PAUPORTÉ, Thierry**. High-Resolution and Stable Ruddlesden–Popper Quasi-2D Perovskite Flexible Photodetectors Arrays for Potential Applications as Optical Image Sensor. In *Advanced Functional Materials*, 2023, vol. 33, no. 43, art. no. 2304659. (2022: 19 - IF, Q1 - JCR, 5.565 - SJR, Q1 - SJR). ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202304659>

Citácie:

1. [1.1] BUER, Albert Buertey - BOATENG, Nana Yaw Asare - ASAFO-ADJEI, Benjamin - KWON, Sooncheol - JO, Jea Woong. Recent progress in the development of metal halide perovskite electronics for sensing applications. In *MATERIALS TODAY ELECTRONICS*, 2024, vol. 10, no., art. no. 100122. Dostupné na: <https://doi.org/10.1016/j.mtelec.2024.100122>, Registrované v: WOS
2. [1.1] CHEN, Sixue - CHEN, Mingming - ZHANG, Huimin - CAO, Dawei. Filterless Narrowband Photodetectors Based on Solution-Processed CH₃NH₃PbBr₃ Microcrystal/Indium Tin Oxide Heterojunctions. In *ACS*

APPLIED OPTICAL MATERIALS, 2024, vol. 2, no. 4, pp. 664-669. ISSN 2771-9855. Dostupné na: <https://doi.org/10.1021/acsaom.4c00079>, Registrované v: WOS

3. [1.1] DING, Ke - ZHANG, Hong - JIANG, Jili - LUO, Jiangshuai - WU, Rouling - YE, Lijuan - TANG, Yan - PANG, Di - LI, Honglin - LI, Wanjun. Balancing Carrier Dynamics in Oxygen-Vacancy-Tuned Amorphous Ga₂O₃ Thin-Film Self-Powered Photoelectrochemical-Type Solar-Blind Photodetector Arrays for Underwater Imaging. In ADVANCED SCIENCE, 2024, vol. 11, no. 43. Dostupné na: <https://doi.org/10.1002/advs.202407822>, Registrované v: WOS
4. [1.1] LI, Lei - YAN, Haoming - LI, Shunde - XU, Hongyu - QU, Duo - HU, An - MA, Li - JI, Yongqiang - ZHONG, Qixuan - ZHAO, Lichen - XU, Fan - TU, Yongguang - SONG, Tinglu - WU, Jiang - LI, Menglin - LU, Changjun - YANG, Xiaoyu - ZHONG, Haizheng - GONG, Qihuang - WANG, Xinqiang - ZHU, Rui. Lateral Phase Heterojunction for Perovskite Microoptoelectronics. In ADVANCED MATERIALS, 2024, vol. 36, no. 50. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202409201>, Registrované v: WOS
5. [1.1] LI, Y. J. - LIU, Y. - LIU, L. - ZHANG, R. F. - MU, F. - RONG, Q. - LIU, Y. K. Low temperature self-growth of organic-inorganic perovskite nanowires for high performance flexible photodetectors. In MATERIALS TODAY COMMUNICATIONS, 2024, vol. 40, no., art. no. 109951. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2024.109951>, Registrované v: WOS
6. [1.1] LI, Zhenzhe - TAO, Bowan - ZHAO, Ruipeng - YANG, Kai - CHEN, Xi - XIE, Tian - XIA, Yudong - ZHU, Hongxu - TIAN, Hongbo - YU, Yuhang. Novel flexible atomic layer thermopile heat flux sensor via orientation-controlled growth technique. In CERAMICS INTERNATIONAL, 2024, vol. 50, no. 17, pp. 30334-30344. ISSN 0272-8842. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.05.331>, Registrované v: WOS
7. [1.1] LIU, Kai - DUAN, Tianyi - ZHANG, Fengran - TIAN, Xiaozhu - LI, Hui - FENG, Min - WANG, Rui - JIANG, Benshuai - ZHANG, Kewei. Flexible electrode materials for emerging electronics: materials, fabrication and applications. In JOURNAL OF MATERIALS CHEMISTRY A, 2024, vol. 12, no. 32, pp. 20606-20637. ISSN 2050-7488. Dostupné na: <https://doi.org/10.1039/d4ta01960a>, Registrované v: WOS
8. [1.1] SONG, Wenya - KANG, Jubin - ELKHOULY, Karim - HAMDAD, Sarah - ZHANG, Xin - MONROY, Maria Isabel Pintor - SIDDIK, Abu Bakar - CAROLAN, Patrick - SUBRAMANIAM, Sownder - KUANG, Yinghuan - DE ROOSE, Florian - VANDENPLAS, Erwin - CHANDRASEKARAN, Naresh - KIM, Joo Hyoung - GEHLHAAR, Robert - KIM, Seong-Jin - LEE, Jiwon - GENOE, Jan. Halide Perovskite Photodiode Integrated CMOS Imager. In ACS NANO, 2024, vol. 18, no. 52, pp. 35520-35532. ISSN 1936-0851. Dostupné na: <https://doi.org/10.1021/acsnano.4c13136>, Registrované v: WOS
9. [1.1] TANG, Xing - YANG, Jingwen - DUAN, Zaihua - BU, Yichen - YUAN, Zhen - JIANG, Yadong - TAI, Huiling. Advances in Paper-Based Photodetectors: Fabrications, Performances, and Applications. In ADVANCED OPTICAL MATERIALS, 2024, vol. 12, no. 27. ISSN 2195-1071. Dostupné na: <https://doi.org/10.1002/adom.202401114>, Registrované v: WOS
10. [1.1] WANG, Tao - ZHENG, Daming - VEGSO, Karol - BAILLARD, Guillaume - NADAZDY, Peter - MRKYVKOVA, Nada - SIFFALOVIC, Peter - CHEN, Yimu - COOLEN, Laurent - PAUPORTE, Thierry - FENG, Fu. A dual strategy to enhance the photoelectric performance of Perovskite-Based photodetectors for potential applications in optical communications. In CHEMICAL ENGINEERING JOURNAL, 2024, vol. 488, no., art. no. 151068.

ISSN 1385-8947. Dostupné na: <https://doi.org/10.1016/j.cej.2024.151068>,

Registrované v: WOS

11. [1.1] XU, Tengfei - ZHONG, Fang - WANG, Peng - WANG, Zhen - GE, Xun - WANG, Jinjin - WANG, Hailu - ZHANG, Kun - ZHANG, Zhenhan - ZHAO, Tiange - YU, Yiye - LUO, Min - WANG, Yang - JIANG, Ruiqi - WANG, Fang - CHEN, Fansheng - LIU, Qi - HU, Weida. Van der Waals mid-wavelength infrared detector linear array for room temperature passive imaging. In SCIENCE ADVANCES, 2024, vol. 10, no. 31, art. no. eadn0560. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.adn0560>, Registrované v: WOS

12. [1.1] ZHENG, Daming - PAUPORTE, Thierry. Advances in Optical Imaging and Optical Communications Based on High-Quality Halide Perovskite Photodetectors. In ADVANCED FUNCTIONAL MATERIALS, 2024, vol. 34, no. 11. ISSN 1616-301X. Dostupné na: <https://doi.org/10.1002/adfm.202311205>, Registrované v: WOS

ADCA871 WANG, Tao - ZHENG, Daming** - VÉGSÖ, Karol - MRKÝVKOVÁ, Naďa, Tesařová - ŠIFFALOVIČ, Peter - YUAN, Xiacong - SOMEKH, Michael G. - COOLEN, Laurent** - PAUPORTE, Thierry** - FU, Feng**. Flexible array of high performance and stable formamidinium-based low-n 2D halide perovskite photodetectors for optical imaging. In Nano Energy, 2023, vol. 116, art. no. 108827. (2022: 17.6 - IF, Q1 - JCR, 5.03 - SJR, Q1 - SJR). ISSN 2211-2855. Dostupné na: <https://doi.org/10.1016/j.nanoen.2023.108827>

Citácie:

1. [1.1] GUO, Y.T. - PENG, B. - LU, G.M. - DONG, G.H. - YANG, G.N. - CHEN, B.H. - QIU, R.B. - LIU, H.X. - ZHANG, B.T. - YAO, Y.F. - ZHAO, Y.N. - LI, S.Z. - DING, X.D. - SUN, J. - LIU, M. Remarkable flexibility in freestanding single-crystalline antiferroelectric PbZrO₃ membranes. In NATURE COMMUNICATIONS. MAY 24 2024, vol. 15, no. 1, art. no. 4414. Dostupné na: <https://doi.org/10.1038/s41467-024-47419-w>, Registrované v: WOS

2. [1.1] JEONG, S. - CHO, E. - CHOI, W. Design of Na₂WO₄-infused grain boundary for O₃-type Ni-rich layered cathodes in sodium-ion batteries. In JOURNAL OF POWER SOURCES. ISSN 0378-7753, OCT 15 2024, vol. 617, art. no. 235141. Dostupné na: <https://doi.org/10.1016/j.jpowsour.2024.235141>, Registrované v: WOS

3. [1.1] LEE, J.H. - CHO, K. - KIM, J.K. Age of Flexible Electronics: Emerging Trends in Soft Multifunctional Sensors. In ADVANCED MATERIALS. ISSN 0935-9648, APR 2024, vol. 36, no. 16, art. no. 2310505. Dostupné na: <https://doi.org/10.1002/adma.202310505>, Registrované v: WOS

4. [1.1] VARSHNEY, U. - SHARMA, A. - SINGH, P. - GUPTA, G. Revealing the photo-sensing capabilities of a super-flexible, paper-based wearable α-Ga₂O₃ self-driven ultra-high-performance solar-blind photodetector. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, SEP 15 2024, vol. 496, art. no. 153910. Dostupné na: <https://doi.org/10.1016/j.cej.2024.153910>, Registrované v: WOS

5. [1.1] YIN, C. - ZHANG, T.D. - ZHANG, C.H. - ZHANG, Y. - JEONG, C.K. - HWANG, G.T. - CHI, Q.G. Flexible mica films coated by magnetron sputtered insulating layers for high-temperature capacitive energy storage. In SUSMAT. ISSN 2766-8479, OCT 2024, vol. 4, no. 5, art. no. e228. Dostupné na: <https://doi.org/10.1002/sus2.228>, Registrované v: WOS

6. [1.1] ZAMUDIO-GARCÍA, J. - CHIABRERA, F. - LOSILLA, E.R. - MARRERO-LÓPEZ, D. - ESPOSITO, V. Vertical heterostructures for symmetrical and reversible solid oxide fuel cells. In NANO ENERGY. ISSN 2211-2855, DEC 1 2024, vol. 131, B, art. no. 110293. Dostupné na:

<https://doi.org/10.1016/j.nanoen.2024.110293>, Registrované v: WOS

WANG, Yu-Min - KÁLOSI, Anna - HALAHOVETS, Yuriy - ROMANENKO, Iryna - SLABÝ, Jiří - HOMOLA, Jiří - SVOBODA, Jan - DE LOS SANTOS PEREIRA, Andres** - POP-GEORGIEVSKI, Ognen**. Grafting density and antifouling properties of poly[N-(2-hydroxypropyl) methacrylamide] brushes prepared by "grafting to" and "grafting from". In *Polymer Chemistry*, 2022, vol. 13, no. 25, p. 3815-3826. (2021: 5.364 - IF, Q1 - JCR, 1.120 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1759-9954. Dostupné na: <https://doi.org/10.1039/d2py00478j>

Citácie:

1. [1.1] KUZMYN, Andriy R. - YPMA, Tanja G. - ZUILHOF, Han. Tunable Cell-Adhesive Surfaces by Surface-Initiated Photoinduced Electron-Transfer-Reversible Addition-Fragmentation Chain-Transfer Polymerization. In *LANGMUIR*, 2024, vol. 40, no. 7, pp. 3354-3359. ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.3c02604>, Registrované v: WOS
2. [1.1] LI, Weiran - HUANG, Zhike - LI, Xin - ZHANG, Mengqi - LI, Qianqian - LUO, Shulu - LI, Yan - WU, Dingcai - WU, Shuyi. Coral-inspired anti-biofilm therapeutic abutments as a new paradigm for prevention and treatment of peri-implant infection. In *SMARTMAT*, 2024, vol. 5, no. 6. ISSN 2766-8525. Dostupné na: <https://doi.org/10.1002/smm2.1284>, Registrované v: WOS
3. [1.1] LIU, Wenjie - HE, Suqin - LIU, Hao - SHOU, Zeyu - HUO, Kaiyuan - XIANG, Hongping - FENG, Aihan - LU, Wei - LI, Na. A green, versatile, and facile strategy for anti-biofouling surface with ultra-high graft density polyethylene glycol. In *JOURNAL OF NANOBIO TECHNOLOGY*, 2024, vol. 22, no. 1, art. no. 746. Dostupné na: <https://doi.org/10.1186/s12951-024-03026-x>, Registrované v: WOS
4. [1.1] SONG, Xinzhong - MAN, Jia - QIU, Yinghua - WANG, Jiali - LIU, Jianing - LI, Ruijian - ZHANG, Yongqi - LI, Jianyong - LI, Jianfeng - CHEN, Yuguo. Design, preparation, and characterization of lubricating polymer brushes for biomedical applications. In *ACTA BIOMATERIALIA*, 2024, vol. 175, no., pp. 76-105. ISSN 1742-7061. Dostupné na: <https://doi.org/10.1016/j.actbio.2023.12.024>, Registrované v: WOS
5. [1.1] VRABCOVA, Marketa - SPASOVOVA, Monika - HOUSKA, Milan - MRKVOVA, Katerina - LYNN JR, N. Scott - FEKETE, Ladislav - ROMANYUK, Oleksandr - DEJNEKA, Alexandr - VAISOCHEROVA-LISALOVA, Hana. Long-term stability of antifouling poly(carboxybetaine acrylamide) brush coatings. In *PROGRESS IN ORGANIC COATINGS*, 2024, vol. 188, no., art. no. 108187. ISSN 0300-9440. Dostupné na: <https://doi.org/10.1016/j.porgcoat.2023.108187>, Registrované v: WOS
6. [1.1] YANG, Meimei - WANG, Yanhua - LI, Hongye - BO, Peipei - LIU, Bo - GE, Bo - WANG, Liping - LI, Guang. Preparation and properties of UiO-66 based hybrid materials via surface initiated metal-free ATRP. In *EUROPEAN POLYMER JOURNAL*, 2024, vol. 202, no., art. no. 112612. ISSN 0014-3057. Dostupné na: <https://doi.org/10.1016/j.eurpolymj.2023.112612>, Registrované v: WOS
7. [1.1] YU, Beihang - CHANG, Boyce S. - LOO, Whitney S. - DHUEY, Scott - O'REILLY, Padraic - ASHBY, Paul D. - CONNOLLY, Michael D. - TIKHOMIROV, Grigory - ZUCKERMANN, Ronald N. - RUIZ, Ricardo. Nanopatterned Monolayers of Bioinspired, Sequence-Defined Polypeptoid Brushes for Semiconductor/Bio Interfaces. In *ACS NANO*, 2024, vol. 18, no. 10, pp. 7411-7423. ISSN 1936-0851. Dostupné na: <https://doi.org/10.1021/acsnano.3c10204>, Registrované v: WOS

8. [1.1] ZHANG, Chen - HUANG, Huixian - WANG, Xin - ZHANG, Yiran - SUN, Wanshu - LIU, Qingliang - ZHOU, Xiuzhi - XU, Wentao - LUO, Yunbo - HUANG, Kunlun - CHENG, Nan. Zwitterions modified biosensors improve detection performance in complex food matrices. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*, 2024, vol. 145, no., art. no. 104374. ISSN 0924-2244. Dostupné na: <https://doi.org/10.1016/j.tifs.2024.104374>, Registrované v: WOS
9. [1.1] ZHANG, Jiawei - YUAN, Xiaoyan - WU, Zongquan - REN, Lixia. Synthesis and self-assembly of high grafting density core-shell bottlebrush polymer with amphiphilic side chain. In *REACTIVE & FUNCTIONAL POLYMERS*, 2024, vol. 202, no., art. no. 105997. ISSN 1381-5148. Dostupné na: <https://doi.org/10.1016/j.reactfunctpolym.2024.105997>, Registrované v: WOS
10. [1.1] ZHANG, Yuhao - ZHANG, Jiawen - YANG, Qiang - SONG, Yao - PAN, Mingfei - KAN, Yajing - XIANG, Li - LI, Mei - ZENG, Hongbo. Tuning interfacial molecular asymmetry to engineer protective coatings with superior surface anchoring, antifouling and antibacterial properties. In *ACTA BIOMATERIALIA*, 2024, vol. 190, no., pp. 107-119. ISSN 1742-7061. Dostupné na: <https://doi.org/10.1016/j.actbio.2024.10.015>, Registrované v: WOS
11. [1.2] SATO, Tomoya - DUNDERDALE, Gary J. - HOZUMI, Atsushi. Threshold of Surface Initiator Concentration for Polymer Brush Growth by Surface-Initiated Atom Transfer Radical Polymerization. In *Langmuir*, 2024-01-09, 40, 1, pp. 480-488. ISSN 07437463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.3c02756>, Registrované v: SCOPUS
12. [1.2] XU, Xin - CHANG, Yixin - GONG, Yutong - ZHANG, Yuhao - YU, Ye - PENG, Hui - FU, Changkui. Recent Advances in Antifouling Surface Polymer Brushes. In *ACS Applied Polymer Materials*, 2024-01-12, 6, 1, pp. 1-27. Dostupné na: <https://doi.org/10.1021/acsapm.3c02150>, Registrované v: SCOPUS

ADCA873 WAX, J.F. - JOHNSON, M.R. - BOVE, L.E. - MIHALKOVIČ, Marek. Multiscale study of the influence of chemical order on the properties of liquid Li-Bi alloys. In *Physical Review B*, 2011, vol. 83, no. 14, art. no. 144203. (2010: 3.774 - IF, Q1 - JCR, 3.318 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.83.144203>

Citácie:

1. [1.1] JANI, Mayank H. - VORA, Aditya M. Theoretical investigation of atomic dynamics of molten metals at melting points. In *MOLECULAR PHYSICS*, 2024, vol. 122, no. 18. ISSN 0026-8976. Dostupné na: <https://doi.org/10.1080/00268976.2024.2321298>, Registrované v: WOS

ADCA874 WEIS, Martin Jr. - LIN, J. - TAGUCHI, D. - MANAKA, T. - IWAMOTO, M. Insight into the contact resistance problem by direct probing of the potential drop in organic field-effect transistors. In *Applied Physics Letters*, 2010, vol. 97, no. 26, art. no. 263304. (2009: 3.554 - IF, 2.826 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, SCOPUS). ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/1.3533020>

Citácie:

1. [1.1] FESHANJERDI, Mohadeseh - MASOUDI, Amir Ali - TAJIK, Fatemeh. Theoretical study on contact current density in the boundary of random rough surfaces. In *PHYSICA B-CONDENSED MATTER*, 2024, vol. 684, no., art. no. 415947. ISSN 0921-4526. Dostupné na: <https://doi.org/10.1016/j.physb.2024.415947>, Registrované v: WOS

ADCA875 WEIS, Martin Jr. - GMUCOVÁ, Katarína - NÁDAŽDY, Vojtech - MAJKOVÁ, Eva - HAŠKO, D. - TAGUCHI, D. - MANAKA, T. - IWAMOTO, M. Grain boundary effect on charge transport in pentacene thin films. In *Japanese Journal of Applied*

Physics, 2011, vol. 50, no. 4, art. no. 04DK03. (2010: 1.024 - IF, Q3 - JCR, 0.560 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0021-4922. Dostupné na: <https://doi.org/10.1143/JJAP.50.04DK03>

Citácie:

1. [1.2] LI, Feifei - WILLIAMS, Matthew C. - WALDRIP, Matthew - TYZNIK, Colin - AMBAGASPITIYA, Tharushi D. - DREMANN, Derek - CIMATU, Katherine Leslee Asetre - JURCHESCU, Oana D. - CISZEK, Jacob W. Selective reaction at grain boundaries addressing organic field effect transistor trap states. In *Journal of Materials Chemistry C*, 2024-12-23, 13, 6, pp. 3011-3019. ISSN 20507526. Dostupné na: <https://doi.org/10.1039/d4tc03579h>, Registrované v: SCOPUS

ADCA876 WIDOM, M. - MIHALKOVIČ, Marek. Stability of Fe-based alloys with structure type C6Cr23. In *Journal of Materials Research*, 2005, vol. 20, no. 1, p. 237-242. ISSN 0884-2914. Dostupné na: <https://doi.org/10.1557/JMR.2005.0028>

Citácie:

1. [1.1] XIE, Hongbo - LI, Shanshan - YANG, Peijun - LIU, Chuangwei - JIA, Weitao - QIN, Gaowu. Interfacial strain driven nucleation and growth of grain boundary phases. In *ACTA MATERIALIA*, 2024, vol. 263, no., art. no. 119486. ISSN 1359-6454. Dostupné na: <https://doi.org/10.1016/j.actamat.2023.119486>, Registrované v: WOS

ADCA877 WIDOM, M. - MIHALKOVIČ, Marek. Symmetry-broken crystal structure of elemental boron at low temperature. In *Physical Review B*, 2008, vol. 77, no. 6, art. no. 064113. (2007: 3.172 - IF, Q1 - JCR, 2.892 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.77.064113>

Citácie:

1. [1.1] ADEBISI, Mufutau A. - CHEN, Chii-Dong - MANIKANDAN, E. - PILLAY, Ursula M. - AMIRTHAPANDIAN, Bala S. - ALIYU, Nafiu S. - PILLAY, Michael N. - MOODLEY, Mathew K. Temperature-controlled synthesis of novel boron nanofibers by laser ablation technique. In *MATERIALS CHEMISTRY AND PHYSICS*, 2024, vol. 328, no., art. no. 129960. ISSN 0254-0584. Dostupné na: <https://doi.org/10.1016/j.matchemphys.2024.129960>, Registrované v: WOS

2. [1.1] CHO, Yeonsoo - SJAKSTE, Jelena - DUPARC, Olivier Hardouin - VAST, Nathalie. Thermodynamical stability of carbon-based defects in α boron from first principles. In *SOLID STATE SCIENCES*, 2024, vol. 154, no., art. no. 107610. ISSN 1293-2558. Dostupné na:

<https://doi.org/10.1016/j.solidstatesciences.2024.107610>, Registrované v: WOS

3. [1.1] HAYAMI, Wataru - HIROTO, Takanobu - SOGA, Kohei - OGITSU, Tadashi - KIMURA, Kaoru. Thermodynamic stability of elemental boron allotropes with varying numbers of interstitial atoms. In *JOURNAL OF SOLID STATE CHEMISTRY*, 2024, vol. 329, no., art. no. 124407. ISSN 0022-4596. Dostupné na: <https://doi.org/10.1016/j.jssc.2023.124407>, Registrované v: WOS

4. [1.1] LI, Ling - LIU, Zonghuai - LI, Qi. Mono-Element Boron Nanomaterials for Energy Conversion and Storage: Preparation, Recent Progress, and Perspectives. In *ENERGY & FUELS*, 2024, vol. 38, no. 16, pp. 15025-15054. ISSN 0887-0624. Dostupné na: <https://doi.org/10.1021/acs.energyfuels.4c02646>, Registrované v: WOS

5. [1.1] YANG, L. - WIRTH, B. D. First-principles study of diffusion of intrinsic point defects in tungsten borides. In *JOURNAL OF NUCLEAR MATERIALS*, 2024, vol. 591, no., art. no. 154931. ISSN 0022-3115. Dostupné na: <https://doi.org/10.1016/j.jnucmat.2024.154931>, Registrované v: WOS

6. [1.2] SHANG, Shun Li - WANG, Yi - LIU, Zi Kui. Thermodynamic fluctuations

between magnetic states from first-principles phonon calculations: The case of bcc Fe. In Zentropy Theory and Fundamentals, 2024-08-23, pp. 569-587. ISBN [9789814968942, 9781003846291]., Registrované v: SCOPUS
7. [1.2] YADAV, Shalu - SADIQUE, Mohd Abubakar - RANJAN, Pushpesh - SATHISH, N. - KHAN, Raju. Structural Units of Bulk Boron Crystal and 2D Boron Nanostructures. In Engineering Materials, 2024-01-01, part F3426, pp. 1-20. ISSN 16121317. Dostupné na: https://doi.org/10.1007/978-981-97-7014-4_1, Registrované v: SCOPUS

ADCA878 WIDOM, Micheal - MIHALKOVIČ, Marek. Quasicrystal Structure Prediction: A Review. In Israel Journal of Chemistry, 2024, vol. 64, no. 10-11, art. no. e202300122. (2023: 2.3 - IF, Q3 - JCR, 0.987 - SJR, Q1 - SJR). ISSN 0021-2148. Dostupné na: <https://doi.org/10.1002/ijch.202300122>

Citácie:

1. [1.1] LIFSHITZ, Ron. Recent Advances in Quasicrystal Research. In ISRAEL JOURNAL OF CHEMISTRY, 2024, vol. 64, no. 10-11. ISSN 0021-2148. Dostupné na: <https://doi.org/10.1002/ijch.202412000>, Registrované v: WOS

2. [1.1] SANDERS, Kyana M. - GRESSEL, Danica G. - FREDRICKSON, Rie T. - FREDRICKSON, Daniel C. Toward Predicting the Assembly of Modular Intermetallics from Chemical Pressure Analysis: The Interface Nucleus Approach. In INORGANIC CHEMISTRY, 2024, vol. 63, no. 15, pp. 6626-6637. ISSN 0020-1669. Dostupné na: <https://doi.org/10.1021/acs.inorgchem.3c04390>, Registrované v: WOS

ADCA879 WILSON GORDON, A.D. - BUŽEK, Vladimír - KNIGHT, P.L. Statistical and phase properties of displaced kerr states. In Physical Review A, 1991, vol. 44, no. 11, p. 7647-7656. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.44.7647>

Citácie:

1. [1.1] ABELSON, Ziv - BAR-AD, Shimshon. Light with even Fock states from interference of Kerr-squeezed light. In PHYSICAL REVIEW A, 2024, vol. 110, no. 4, art. no. 043708. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.110.043708>, Registrované v: WOS

2. [1.1] INUI, Yoshitaka - NG, Edwin - YAMAMOTO, Yoshihisa. Skewed-Gaussian model of small-photon-number coherent Ising machines. In PHYSICAL REVIEW RESEARCH, 2024, vol. 6, no. 4, art. no. 043151. Dostupné na:

<https://doi.org/10.1103/PhysRevResearch.6.043151>, Registrované v: WOS

ADCA880 WINDISCH, M. - KRAJČÍ, Marián - HAFNER, J. Electronic-structure in icosahedral alculi quasi-crystals and approximant crystals. In Journal of Physics: Condensed Matter, 1994, vol. 6, no. 35, p. 6977-6995. (1993: 1.654 - IF, karentované - CCC). (1994 - Current Contents). ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/0953-8984/6/35/008>

Citácie:

1. [1.1] COATES, Sam - BURNIE, Dominic - SHARMA, Hem Raj - MCGRATH, Ronan. Scanning Tunnelling Microscopy Studies of Tsai-Type Quasicrystal Approximants. In ISRAEL JOURNAL OF CHEMISTRY, 2024, vol. 64, no. 10-11. ISSN 0021-2148. Dostupné na: <https://doi.org/10.1002/ijch.202300116>, Registrované v: WOS

2. [1.1] FUJITA, Nobuhisa - MIHALKOVIC, Marek - HENLEY, Christopher L. Canonical-Cell Tilings and their Atomic Decorations. In ISRAEL JOURNAL OF CHEMISTRY, 2024, vol. 64, no. 10-11. ISSN 0021-2148. Dostupné na:

<https://doi.org/10.1002/ijch.202300130>, Registrované v: WOS

ADCA881 WOCJAN, P. - CHIANG, Chen-Fu - ABEYESINGHE, A. - NAGAJ, Daniel. Quantum algorithm for approximating partition functions. In Physical Review A,

2009, vol. 80, no. 2, art. no. 022340. ISSN 1050-2947. Dostupné na:

<https://doi.org/10.1103/PhysRevA.80.022340>

Citácie:

1. [1.1] ASGHAR, Atif - MAHMOOD, Rashid - MAJEED, Afraz Hussain - ALOTAIBI, Hammad - ALI, Ahmed Refaie. Predicting the passive control of fluid forces over circular cylinder in a time dependent flow using neuro-computing. In *AIP ADVANCES*, 2024, vol. 14, no. 12, art. no. 125103. Dostupné na:

<https://doi.org/10.1063/5.0235129>, Registrované v: WOS

2. [1.1] AU-YEUNG, R. - CAMINO, B. - RATHORE, O. - KENDON, V. Quantum algorithms for scientific computing. In *REPORTS ON PROGRESS IN PHYSICS*, 2024, vol. 87, no. 11, art. no. 116001. ISSN 0034-4885. Dostupné na:

<https://doi.org/10.1088/1361-6633/ad85f0>, Registrované v: WOS

3. [1.1] GARGIULO, Roberto - RIZZI, Matteo - ZEIER, Robert. Computing Classical Partition Functions: From Onsager and Kaufman to Quantum Algorithms. In *PROCEEDINGS OF RECENT ADVANCES IN QUANTUM COMPUTING AND TECHNOLOGY, REAQCT 2024 : Recent Advances in Quantum Computing and Technology conference (ReAQCT)*, 2024, vol., no., pp. 20-50. Dostupné na: <https://doi.org/10.1145/3665870.3665878>, Registrované v: WOS

4. [1.1] LOPATNIKOVA, Anna - TRAN, Minh-ngoc - SISSON, Scott a. AN INTRODUCTION TO QUANTUM COMPUTING FOR STATISTICIANS AND DATA SCIENTISTS. In *FOUNDATIONS OF DATA SCIENCE*, 2024, vol. 6, no. 3, pp. 278-307. Dostupné na: <https://doi.org/10.3934/fods.2024013>, Registrované v: WOS

5. [1.1] MOUTON, Lukas - REITER, Florentin - CHEN, Ying - REBENTROST, Patrick. Deep-learning-based quantum algorithms for solving nonlinear partial differential equations. In *PHYSICAL REVIEW A*, 2024, vol. 110, no. 2, art. no. 022612. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.110.022612>, Registrované v: WOS

6. [1.1] WANG, Xinzhaoh - ZHANG, Shengyu - LI, Tongyang. A Quantum Algorithm Framework for Discrete Probability Distributions With Applications to Renyi Entropy Estimation. In *IEEE TRANSACTIONS ON INFORMATION THEORY*, 2024, vol. 70, no. 5, pp. 3399-3426. ISSN 0018-9448. Dostupné na:

<https://doi.org/10.1109/TIT.2024.3382037>, Registrované v: WOS

7. [1.2] OZGUL, Guneykan - LI, Xiantao - MAHDAVI, Mehrdad - WANG, Chunhao. Stochastic Quantum Sampling for Non-Logconcave Distributions and Estimating Partition Functions. In *Proceedings of Machine Learning Research*, 2024-01-01, 235, pp. 38953-38982., Registrované v: SCOPUS

8. [1.2] TOMARU, Tatsuya - TAKAHASHI, Hideo - HIRANO, Toshiyuki - TAHARA, Saisei - SATO, Fumitoshi. Chemical reaction simulator on quantum computers by first quantization—Basic treatment: Theoretical. In *Aip Advances*, 2024-12-01, 14, 12, pp. Dostupné na: <https://doi.org/10.1063/5.0239980>,

Registrované v: SCOPUS

ADCA882 XI, Jiahao - WANG, Hui - YUAN, Jifeng - YAN, Xiaoqin - ŠIFFALOVIČ, Peter - TIAN, Jianjun**. High-Quality alpha-FAPbI(3) Film Assisted by Lead Acetate for Efficient Solar Cells. In *Solar RRL*, 2021, vol. 5, no. 12, art. no. 2100747. (2020: 8.582 - IF, Q1 - JCR, 2.544 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2367-198X. Dostupné na: <https://doi.org/10.1002/solr.202100747>

Citácie:

1. [1.1] CHEN, Qiaoyun - YANG, Xudong - ZHANG, Jiajia - FU, Jianfei - JIANG, Zhixuan - SONG, Bo - XU, Pan - ZHOU, Yi. Defect passivation by a betaine-based zwitterionic molecule for high-performance p-i-n methylammonium-based

perovskite solar cells. In *SOLAR ENERGY MATERIALS AND SOLAR CELLS*, 2024, vol. 264, no., art. no. 112615. ISSN 0927-0248. Dostupné na:

<https://doi.org/10.1016/j.solmat.2023.112615>, Registrované v: WOS

2. [1.1] JI, Ran - ZHANG, Zongbao - DECONINCK, Marielle - HOFSTETTER, Yvonne J. - SHI, Juanzi - PAULUS, Fabian - RAVAL, Parth - REDDY, G. N.

Manjunatha - VAYNZOF, Yana. Spontaneous Formation of 1D/3D Perovskite Heterojunctions for Efficient Inverted Perovskite Solar Cells. In *ADVANCED ENERGY MATERIALS*, 2024, vol. 14, no. 20. ISSN 1614-6832. Dostupné na:

<https://doi.org/10.1002/aenm.202304126>, Registrované v: WOS

3. [1.1] JIANG, Lulu - LI, Qi - LI, Bo - GUO, Shuaike - LI, Shaojie - ZHANG, Xiaonan - TANG, Xiaodan. Efficient and stable perovskite solar cells via oxalic acid doped SnO₂ nanocrystals with surface-defect passivation. In *COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS*, 2024, vol. 702, no., art. no. 135052. ISSN 0927-7757. Dostupné na:

<https://doi.org/10.1016/j.colsurfa.2024.135052>, Registrované v: WOS

4. [1.1] LIU, Yu - LANG, Kun - HAN, Huifang - LIU, Huijing - FU, Yao - ZOU, Pengchen - LYU, Yinhui - XU, Jia - YAO, Jianxi. Crystallization management of CsPbI₂Br perovskites by PbAc₂-incorporated twice spin-coating process for efficient and stable CsPbI₂Br perovskite solar cells. In *JOURNAL OF ENERGY CHEMISTRY*, 2024, vol. 97, no., pp. 419-428. ISSN 2095-4956. Dostupné na:

<https://doi.org/10.1016/j.jechem.2024.05.034>, Registrované v: WOS

5. [1.1] MERTEN, Lena - EBERLE, Timo - KNESCHAUREK, Ekaterina - SCHEFFCZYK, Niels - ZIMMERMANN, Paul - ZALUZHNYI, Ivan - KHADIEV, Azat - BERTRAM, Florian - PAULUS, Fabian - HINDERHOFER, Alexander - SCHREIBER, Frank. Halide Segregated Crystallization of Mixed-Halide Perovskites Revealed by In Situ GIWAXS. In *ACS APPLIED MATERIALS & INTERFACES*, 2024, vol. 16, no. 7, pp. 8913-8921. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.3c18623>, Registrované v: WOS

6. [1.1] THAKUR, Diksha - CHANG, Sheng Hsiung. Material properties and optoelectronic applications of lead halide perovskite thin films. In *SYNTHETIC METALS*, 2024, vol. 301, no., art. no. 117535. ISSN 0379-6779. Dostupné na:

<https://doi.org/10.1016/j.synthmet.2023.117535>, Registrované v: WOS

7. [1.1] ZHANG, Weizhi - ZHANG, Taiyang - QIN, Lixia - KANG, Shi-Zhao - ZHAO, Yixin - LI, Xiangqing. Anti-solvent engineering to rapid purify PbI₂ for efficient perovskite solar cells. In *CHEMICAL ENGINEERING JOURNAL*, 2024, vol. 479, no., art. no. 147838. ISSN 1385-8947. Dostupné na:

<https://doi.org/10.1016/j.cej.2023.147838>, Registrované v: WOS

ADCA883 XIONG, Wei - ZHANG, Hangfeng** - CAO, Shuyao - GAO, Feng - ŠVEC, Peter Jr. - DUSZA, Ján - REECE, Michael J.** - YAN, Haixue. Low-loss high entropy relaxor-like ferroelectrics with A-site disorder. In *Journal of the European Ceramic Society*, 2021, vol. 41, no. 4, p. 2979-2985. (2020: 5.302 - IF, Q1 - JCR, 1.204 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0955-2219. Dostupné na: <https://doi.org/10.1016/j.jeurceramsoc.2020.11.030>

Citácie:

1. [1.1] BAI, M. - QIAO, W.J. - MEI, J.W. - KANG, R.R. - GAO, Y.F. - WU, Y.D. - HU, Y.H. - LI, Y. - HAO, X.H. - ZHAO, J.T. - HU, H. - LOU, X.J. High-performance energy storage in BaTiO₃-based oxide ceramics achieved by high-entropy engineering. In *JOURNAL OF ALLOYS AND COMPOUNDS*. ISSN 0925-8388, JAN 5 2024, vol. 970. Dostupné na:

<https://doi.org/10.1016/j.jallcom.2023.172671>, Registrované v: WOS

2. [1.1] CHEN, Z.B. Designs where disorder prevails. In *SCIENCE*. ISSN 0036-8075, APR 12 2024, vol. 384, no. 6692, p. 158-159. Dostupné na:

<https://doi.org/10.1126/science.ad07736>, Registrované v: WOS

3. [1.1] GUO, H.M. - VAHIDI, H. - KANG, H. - SHAH, S. - XU, M.J. - AOKI, T. - RUPERT, T.J. - LUO, J. - GILLIARD-ABDULAZIZ, K.L. - BOWMAN, W.J. Tuning grain boundary cation segregation with oxygen deficiency and atomic structure in a perovskite compositionally complex oxide thin film. In *APPLIED PHYSICS LETTERS*. ISSN 0003-6951, APR 22 2024, vol. 124, no. 17. Dostupné na:

<https://doi.org/10.1063/5.0202249>, Registrované v: WOS

4. [1.1] LI, W. - SHEN, Z.H. - LIU, R.L. - CHEN, X.X. - GUO, M.F. - GUO, J.M. - HAO, H. - SHEN, Y. - LIU, H.X. - CHEN, L.Q. - NAN, C.W. Generative learning facilitated discovery of high-entropy ceramic dielectrics for capacitive energy storage. In *NATURE COMMUNICATIONS*. JUN 10 2024, vol. 15, no. 1.

Dostupné na: <https://doi.org/10.1038/s41467-024-49170-8>, Registrované v: WOS

5. [1.1] LIU, Z.B. - LIU, T.Y. - ZHENG, B.F. - YE, W.H. - MA, J.X. - CHEN, K.P. Enhanced energy storage performance of (Bi_{0.4}Ba_{0.2}K_{0.2}Na_{0.2}) TiO₃-NaNbO₃ high-entropy ceramics under moderate electric fields. In *CERAMICS INTERNATIONAL*. ISSN 0272-8842, JUN 15 2024, vol. 50, no. 12, p. 21869-21877. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.03.299>,

Registrované v: WOS

6. [1.1] MAO, P. - GUO, Y.G. - WANG, T. - HE, L.Q. - LI, W.J. - LIU, Z.Y. - XIE, B. - GUO, K. - SHU, L.L. - GAO, J.H. Boosting High Electric Breakdown Strength for Excellent Energy Storage Performance in Bi_{0.5}Na_{0.5}TiO₃-Based Lead-Free Ceramics via a High Entropy Strategy. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, DEC 17 2024, vol. 17, no. 1, p. 1485-1498.

Dostupné na: <https://doi.org/10.1021/acsami.4c15339>, Registrované v: WOS

7. [1.1] NI, B. - LIU, H.W. - ZOU, S. - GU, Y.H. - ZHANG, X.Y. - QI, X.W. Enhancing electrical resistivity of titanium-substituted rare-earth orthoferrite high-entropy ceramics by engineering grain and grain boundary. In *CERAMICS INTERNATIONAL*. ISSN 0272-8842, MAY 1 2024, vol. 50, no. 9, B, p. 15750-15755. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.02.055>,

Registrované v: WOS

8. [1.1] NI, B. - ZOU, S. - GU, Y.H. - ZHANG, X.Y. - QI, X.W. Entropy regulated ferroelectric properties of rare-earth and transition metal perovskite type ceramics. In *JOURNAL OF ALLOYS AND COMPOUNDS*. ISSN 0925-8388, MAY 15 2024, vol. 984. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.173820>,

Registrované v: WOS

9. [1.1] NING, Y.T. - PU, Y.P. - WU, C.H. - CHEN, Z.M. - ZHANG, X.Q. - ZHANG, L. - WANG, B. Design strategy of high-entropy perovskite energy-storage ceramics: A review. In *JOURNAL OF THE EUROPEAN CERAMIC SOCIETY*. ISSN 0955-2219, JUL 2024, vol. 44, no. 8, p. 4831-4843. Dostupné na: <https://doi.org/10.1016/j.jeurceramsoc.2024.02.040>, Registrované v: WOS

10. [1.1] QIN, J.D. - WEN, Z.Q. - MA, B. - WU, Z.Y. - LV, Y.M. - YU, J.J. - ZHAO, Y.H. Microstructure and magnetic properties of novel high-entropy perovskite ceramics (Gd_{0.2}La_{0.2}Nd_{0.2}Sm_{0.2}Y_{0.2})MnO₃. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*. ISSN 0304-8853, MAY 1 2024, vol. 597. Dostupné na: <https://doi.org/10.1016/j.jmmm.2024.172010>,

Registrované v: WOS

11. [1.1] QIN, J.D. - WEN, Z.Q. - WU, Z.Y. - LU, T.Y. - TANG, L. - TIAN, J.Z. - ZHAO, Y.H. Tailoring magnetic properties of novel (La_{0.25}Nd_{0.25}Sm_{0.25}Gd_{0.25})_{1-x}Ho_xMnO₃ high-entropy perovskite ceramics by Ho doping. In *CERAMICS INTERNATIONAL*. ISSN 0272-8842, NOV 15 2024, vol. 50, no. 22, A, p. 44918-44927. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.08.328>, Registrované v: WOS

12. [1.1] TU, Z. - LI, S.J. - LI, Y.B. - ZHE, Q. - WANG, J.N. - BAI, C. - LIU, F. Design, synthesis and structural characterization of a novel medium-entropy perovskite oxide. In *CERAMICS INTERNATIONAL*. ISSN 0272-8842, JAN 15 2024, vol. 50, no. 2, A, p. 2549-2555. Dostupné na: <https://doi.org/10.1016/j.ceramint.2023.09.168>, Registrované v: WOS
13. [1.1] VARADE, P. - PANDEY, A.H. - SELVAMANI, R. - VENKATARAMANI, N. - KULKARNI, A.R. Tuning structural, dielectric, and ferroelectric properties of BTO-based ceramics through dual-site substitution. In *MATERIALS CHEMISTRY AND PHYSICS*. ISSN 0254-0584, JUN 1 2024, vol. 319. Dostupné na: <https://doi.org/10.1016/j.matchemphys.2024.129381>, Registrované v: WOS
14. [1.1] YANG, Z.J. - HUANG, R. - ZHANG, J. - ZHANG, T.Y. - TAO, C. - HAO, H. - YAO, Z.H. - LIU, H.X. - CAO, M.H. Engineering multi-ion doping by entropy for high energy storage density with high efficiency in amorphous thin film. In *CERAMICS INTERNATIONAL*. ISSN 0272-8842, OCT 1 2024, vol. 50, no. 19, B, p. 36375-36382. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.07.020>, Registrované v: WOS
15. [1.1] ZHANG, J.Y. - TIAN, J.D. - XING, B.H. - WANG, J.M. - LIU, B. - NIAN, H.Q. - ZHAO, Z. Preparation and thermal/dielectric properties of medium/high entropy perovskite titanate ceramics. In *CERAMICS INTERNATIONAL*. ISSN 0272-8842, SEP 1 2024, vol. 50, no. 17, p. 29954-29965. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.05.291>, Registrované v: WOS
16. [1.2] ZHANG, Haibo - TAN, Hua - YE, Zuo Guang. Inorganic Dielectric Materials for Capacitive Energy Storage. In *Dielectric Materials for Capacitive Energy Storage*, 2024-01-01, pp. 26-80. ISBN [9781032582498, 9781040123980]. Dostupné na: <https://doi.org/10.1201/9781003454496-2>, Registrované v: SCOPUS

ADCA884

YADAV, S.** - KUŘITKA, Ivo - HAVLICA, Jaromír - HNATKO, Miroslav - CIGÁŇ, Alexander - MASILKO, J. - KALINA, L. - HAJDÚCHOVÁ, M. - RUSNÁK, Jaroslav - ENEV, V. Structural, magnetic, elastic, dielectric and electrical properties of hot-press sintered $\text{Co}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$ ($x=0.0, 0.5$) spinel ferrite nanoparticles. In *Journal of Magnetism and Magnetic Materials*, 2018, vol. 447, p. 48-57. (2017: 3.046 - IF, Q2 - JCR, 0.786 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2017.09.033>

Citácie:

1. [1.1] BABU, J.K. - ERFAN, S. - REVATHI, N. - VAGDEVI, K. - REDDY, G.S. - SHARMA, M.V.N.V. Enhanced magnetic properties of $\text{Co}_{0.5}\text{Cu}_{0.25}\text{Zn}_{0.25}\text{Fe}_{2-x}\text{Cr}_x\text{O}_4$ nano ferrites. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*. ISSN 0957-4522, JUL 2024, vol. 35, no. 20. Dostupné na: <https://doi.org/10.1007/s10854-024-13217-9>, Registrované v: WOS
2. [1.1] DEVI, N.K. - WAREPPAM, B. - SINGH, L.H. Cationic migration effect on the dielectric and magnetic properties of $\text{CoFe}_2\text{O}_4/\text{ZnO}$ composites. In *PHYSICA B-CONDENSED MATTER*. ISSN 0921-4526, APR 15 2024, vol. 679. Dostupné na: <https://doi.org/10.1016/j.physb.2024.415794>, Registrované v: WOS
3. [1.1] ELBASHIR, A.M. - SEADA, M.M. - MEAZ, T.M. - EL-GHAZZAWY, E.H. The role of thermal treatment and formulation on modifying the structural nature and optimizing certain physical features of coprecipitated superparamagnetic Co-Mn-Cr spinel ferrite. In *HELIYON*. JUL 15 2024, vol. 10, no. 13. Dostupné na: <https://doi.org/10.1016/j.heliyon.2024.e33632>, Registrované v: WOS
4. [1.1] HUMBE, A.V. - UNDRE, P.G. - KOUNSALYE, J.S. - RASKAR, N.D. - MANE, V.A. - DOLE, B.N. Deciphering the characterization of $\text{Ni}_{0.7-x}\text{Zn}_{0.3}\text{Mg}_x\text{Fe}_2\text{O}_4$ nano ferrites: spectroscopic evaluation of structural

parameters via Debye-Scherrer, Williamson-Hall, size-strain, Halder-Wagner plot, and optical methods. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. ISSN 0957-4522, AUG 2024, vol. 35, no. 23. Dostupné na: <https://doi.org/10.1007/s10854-024-13333-6>, Registrované v: WOS

5. [1.1] KASSEM, S. - ALHAJJAR, N. - ARIDI, A. - AWAD, R. Identification of structural and optical properties and adsorption performance of (Cd_{0.4}Ni_{0.4}Mn_{0.2})Fe_{2-x}Ru_xO₄ nanoparticles for the removal of Congo red dye. In ARABIAN JOURNAL OF CHEMISTRY. ISSN 1878-5352, JAN 2024, vol. 17, no. 1. Dostupné na: <https://doi.org/10.1016/j.arabjc.2023.105477>, Registrované v: WOS

6. [1.1] KAUR, M. - BAHREL, S. Characterization of sol-gel synthesized Zn_{0.25}Co_{0.75}(NiZr)_xFe_{2-2x}O₄ spinel ferrites based microwave absorbers in Ka frequency band. In JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS. ISSN 0022-3697, JAN 2024, vol. 184. Dostupné na: <https://doi.org/10.1016/j.jpcs.2023.111671>, Registrované v: WOS

7. [1.1] MOUSSA, R. - ARIDI, A. - ALHAJJAR, N. - AWAD, R. - NAOUFAL, D. Synthesis, Characterization, and Adsorption Performance of (Mg_{0.4}Co_{0.4}Mn_{0.2})Fe_{2-2x}Sm_xSr_xO₄ Nanoparticles for the Removal of Heavy Metal Ions and Water Treatment. In CHEMISTRYSELECT. ISSN 2365-6549, DEC 2024, vol. 9, no. 45. Dostupné na: <https://doi.org/10.1002/slct.202404577>, Registrované v: WOS

8. [1.1] RASHID, M. - KHAN, M.A. - RASOOL, R.T. - ALHUMMIANY, H. - ARSHAD, M. - ASHRAF, G.A. - BOUKHRIS, I. - IRFAN, M. - AL-ANAZY, M.M. - AKHTAR, M.N. Influence of Ni²⁺ ions on structural, spectral and dielectric properties of Sr-Co spinel ferrites synthesized by sol-gel auto-combustion route. In CERAMICS INTERNATIONAL. ISSN 0272-8842, JUL 2024, vol. 50, no. 13, B, p. 24679-24691. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.04.205>, Registrované v: WOS

9. [1.1] SARKER, M.S.I. - SALMA, U. - KHAN, M.N.I. - RAHMAN, M.M. - KHAN, M.K.R. Impact of annealing temperature on the structural, magnetic and dielectric properties of BaFe_{12-x}Y_xO₁₉ (x=0.0, 0.2, 0.4, 0.6) nanocrystalline samples. In CERAMICS INTERNATIONAL. ISSN 0272-8842, NOV 15 2024, vol. 50, no. 22, A, p. 45868-45879. Dostupné na: <https://doi.org/10.1016/j.ceramint.2024.08.428>, Registrované v: WOS

10. [1.1] SURESH, B.V. - RAO, G.V.R.S. - NANDIPATI, G. - SHIREESHA, Y. Study on the structure, DC electrical resistivity and magnetic properties of Co_{0.7}Cu_{0.2}Zn_{0.1}Fe_{2-x}Cr_xO₄ nano ferrites. In APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING. ISSN 0947-8396, DEC 2024, vol. 130, no. 12. Dostupné na: <https://doi.org/10.1007/s00339-024-08084-4>, Registrované v: WOS

ADCA885 YAKOVENKO, Olexiy - SOKOLSKII, Volodymyr - ŠVEC, Peter Jr. - GEJDOŠ JANOTOVÁ, Irena - ŠVEC, Peter - KULIK, Tadeusz - CIESLAK, Grzegorz - ROIK, Oleksandr. Fabrication of porous high-entropy Mn-Fe-Co-Ni-Cu-Zn alloys by vapor phase dealloying. In Journal of Alloys and Compounds, 2024, vol. 1002, no. 17, art. no. 175312. (2023: 5.8 - IF, Q1 - JCR, 0.715 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.175312>

Citácie:

1. [1.1] SHANG, Zhichao - ZHANG, Man - QU, Jingjing - UDAYAKUMAR, Sanjith - BAI, Xintan - WANG, Xiaohong - ZHANG, Baojing - WANG, Jianzhong - PAHLEVANI, Farshid - FENG, Peizhong. Rapid fabrication of morphology-controlled nano-flower Co₃O₄(OV) from CoAl intermetallic via thermal explosion

combined with dealloying for self-supported supercapacitor electrodes. In *JOURNAL OF ALLOYS AND COMPOUNDS*, 2024, vol. 1008, no., art. no. 176849. ISSN 0925-8388. Dostupné na:

<https://doi.org/10.1016/j.jallcom.2024.176849>, Registrované v: WOS

- ADCA886 YAKYMOVYCH, A.** - ŠVEC, Peter - OROVČÍK, Ľubomír - BAJANA, Otto - IPSEK, H. Nanocomposite SAC Solders: The Effect of Adding Ni and Ni-Sn Nanoparticles on Morphology and Mechanical Properties of Sn-3.0Ag-0.5Cu Solders. In *Journal of Electronic Materials*, 2018, vol. 47, no. 1, p. 117-123. (2017: 1.566 - IF, Q3 - JCR, 0.474 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0361-5235. Dostupné na: <https://doi.org/10.1007/s11664-017-5834-9>

Citácie:

1. [1.1] EID, E.A. - FAWZY, A. - MANSOUR, M.M. - SAAD, G. - AMIN, M. Microstructural Examination and Thermodynamic Analysis of Sn-1.5Ag-0.5Cu-x mass% Ni Lead-Free Solder Alloys. In *JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY*. ISSN 1388-6150, MAY 2024, vol. 149, no. 10, p. 4313-4331.

Dostupné na: <https://doi.org/10.1007/s10973-024-13018-6>, Registrované v: WOS

2. [1.1] EID, E.A. - FAWZY, A. - MANSOUR, M.M. - SAAD, G. - AMIN, M. The role of Ni minor additions on the mechanical characteristics of Sn-1.5Ag-0.5 wt.% Cu (SAC155) Pb-free solder alloy. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*. ISSN 0957-4522, NOV 2024, vol. 35, no. 32.

Dostupné na: <https://doi.org/10.1007/s10854-024-13876-8>, Registrované v: WOS

3. [1.1] ZHU, L.F. - CHEN, W.J. - HU, X.W. - ZHANG, Z.Z. - CHEN, B. - WANG, J. - TAN, S.F. - JIANG, X.X. Role of bismuth in the mechanical and corrosion properties of Cu/Sn-3.0Ag-0.5Cu/Cu solder lap joints. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*. ISSN 0957-4522, JAN 2024, vol. 35, no. 2. Dostupné na: <https://doi.org/10.1007/s10854-024-11942-9>, Registrované v: WOS

- ADCA887 YAKYMOVYCH, A. - PLEVACHUK, Yu. - ŠVEC, Peter - JANIČKOVIČ, Dušan - ŠEBO, Pavol - BERONSKÁ, Nad'a - NOSKO, Martin - OROVČÍK, Ľubomír - ROSHANGHIAS, A. - IPSEK, H. Nanocomposite SAC solders: morphology, electrical and mechanical properties of Sn-3.8Ag-0.7Cu solders by adding Co nanoparticles. In *Journal of Materials Science. Materials in Electronics*, 2017, vol. 28, no. 15, p. 10965-10973. (2016: 2.019 - IF, Q2 - JCR, 0.469 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0957-4522. Dostupné na: <https://doi.org/10.1007/s10853-016-0067-5>

Citácie:

1. [1.1] CAO, C.Z. - KILLIPS, A. - LI, X.C. Advances in the Science and Engineering of Metal Matrix Nanocomposites: A Review. In *ADVANCED ENGINEERING MATERIALS*. ISSN 1438-1656, OCT 1 2024, vol. 26, no. 20.

Dostupné na: <https://doi.org/10.1002/adem.202400217>, Registrované v: WOS

2. [1.1] CHEN, X.W. - NIU, X. - LAI, J.Y. - TANG, J.X. - XU, Z.Y. - LUO, J.Y. - YAO, Y.B. Preparation and characterization of Ag conductive adhesive with low resistivity. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*. ISSN 0957-4522, OCT 2024, vol. 35, no. 28. Dostupné na:

<https://doi.org/10.1007/s10854-024-13621-1>, Registrované v: WOS

3. [1.1] KIM, B. - CHEON, G. - KO, Y.H. - SOHN, Y. Transient Liquid Phase Bonding with Sn-Ag-Co Composite Solder for High-Temperature Applications. In *ELECTRONICS*. JUN 2024, vol. 13, no. 11. Dostupné na:

<https://doi.org/10.3390/electronics13112173>, Registrované v: WOS

4. [1.1] TSAO, L.C. - LAI, P.C. Influence of Al₂O₃ Nanoparticles on the Morphology and Growth Kinetics of Cu-Sn Intermetallic Compounds in Sn-Ag-

Zn/Cu Solder Joints. In CRYSTALS. OCT 2024, vol. 14, no. 10. Dostupné na:

<https://doi.org/10.3390/cryst14100894>, Registrované v: WOS

5. [1.1] ZHANG, S. - QIU, Q.Y. - DING, T.R. - LONG, W.M. - ZHONG, S.J. - PAIK, K.W. - HE, P. - ZHANG, S.Y. Investigation of isothermal aged Sn-3Ag-0.5Cu/Sn58Bi-Co hybrid solder joints on ENIG and ENEPIG substrate with various mechanical performances. In MATERIALS TODAY COMMUNICATIONS. JUN 2024, vol. 39. Dostupné na:

<https://doi.org/10.1016/j.mtcomm.2024.108609>, Registrované v: WOS

ADCA888

YAKYMOVYCH, A. - PLEVACHUK, Yu. - ŠVEC, Peter - ŠVEC, Peter Jr. - JANIČKOVIČ, Dušan - ŠEBO, Pavol - BERONSKÁ, Nad'a - ROSHANGHIAS, A. - IPSEER, H. Morphology and Shear Strength of Lead-Free Solder Joints with Sn3.0Ag0.5Cu Solder Paste Reinforced with Ceramic Nanoparticles. In Journal of Electronics Materials, 2016, vol. 45, no. 12, p. 6143-6149. (2015: 1.491 - IF, Q2 - JCR, 0.555 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0361-5235. Dostupné na: <https://doi.org/10.1007/s11664-016-4832-7>

Citácie:

1. [1.1] CAO, N.Q. - WON, D. - YOON, S.W. PADS: Predictive Anomaly Detection for SMT Solder Joints Using Novel Features From SPI and Pre-AOI Data. In IEEE TRANSACTIONS ON COMPONENTS PACKAGING AND MANUFACTURING TECHNOLOGY. ISSN 2156-3950, MAR 2024, vol. 14, no. 3, p. 501-509. Dostupné na: <https://doi.org/10.1109/TCPMT.2024.3367244>, Registrované v: WOS

2. [1.1] ILLÉS, B. - CHOI, H. - SZOSTAK, K. - BYUN, J. - SKWAREK, A. Effects of CuO nanoparticles on SAC composite solder joints: Microstructural and DFT study. In JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T. ISSN 2238-7854, SEP-OCT 2024, vol. 32, p. 609-620. Dostupné na: <https://doi.org/10.1016/j.jmrt.2024.07.179>, Registrované v: WOS

3. [1.1] SKWAREK, A. - CHOI, H. - HURTONY, T. - BYUN, J. - MOHAMAD, A.A. - BUSEK, D. - DUSEK, K. - ILLÉS, B. Effects of ZrO2 Nano-Particles'; Incorporation into SnAgCu Solder Alloys: An Experimental and Theoretical Study. In NANOMATERIALS. OCT 2024, vol. 14, no. 20. Dostupné na: <https://doi.org/10.3390/nano14201636>, Registrované v: WOS

ADCA889

YAKYMOVYCH, Andriy** - SLABON, Adam - ŠVEC, Peter - PLEVACHUK, Yuriy - OROVČÍK, Lubomír - BAJANA, Otto. Nanocomposite SAC solders: the effect of adding CoPd nanoparticles on the morphology and the shear strength of the Sn-3.0Ag-0.5Cu/Cu solder joints. In Applied Nanoscience, 2020, vol. 10, no. 12, p. 4603-4607. (2019: 2.880 - IF, Q3 - JCR, 0.572 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2190-5509. Dostupné na: <https://doi.org/10.1007/s13204-020-01325-x>

Citácie:

1. [1.1] ZHANG, S. - QIU, Q.Y. - DING, T.R. - LONG, W.M. - ZHONG, S.J. - PAIK, K.W. - HE, P. - ZHANG, S.Y. Investigation of isothermal aged Sn-3Ag-0.5Cu/Sn58Bi-Co hybrid solder joints on ENIG and ENEPIG substrate with various mechanical performances. In MATERIALS TODAY COMMUNICATIONS. JUN 2024, vol. 39. Dostupné na:

<https://doi.org/10.1016/j.mtcomm.2024.108609>, Registrované v: WOS

ADCA890

YAKYMOVYCH, Andriy** - PLEVACHUK, Yuriy** - OROVČÍK, Lubomír - ŠVEC, Peter. Nanocomposite SAC solders: the effect of heat treatment on the morphology of Sn-3.0Ag-0.5Cu/Cu solder joints reinforced with Ni and Ni-Sn nanoparticles. In Applied Nanoscience, 2022, vol. 12, no. 4, p. 977-982. (2021: 3.869 - IF, Q3 - JCR, 0.505 - SJR, Q2 - SJR). ISSN 2190-5509. Dostupné na: <https://doi.org/10.1007/s13204-021-01750-6>

Citácie:

1. [1.1] TAMIZI, M. - MOVAHEDI, M. - KOKABI, A.H. - MIYASHITA, Y. Cobalt-Graphene NanoSheets enhanced Sn-0.3Ag-0.7Cu composite solder: Study on microstructure, crystal orientation relations and mechanical properties. In MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING. ISSN 0921-5093, MAR 2024, vol. 894. Dostupné na: <https://doi.org/10.1016/j.msea.2024.146199>, Registrované v: WOS

2. [1.1] ZHANG, S. - QIU, Q.Y. - DING, T.R. - LONG, W.M. - ZHONG, S.J. - PAIK, K.W. - HE, P. - ZHANG, S.Y. Investigation of isothermal aged Sn-3Ag-0.5Cu/Sn58Bi-Co hybrid solder joints on ENIG and ENEPIG substrate with various mechanical performances. In MATERIALS TODAY COMMUNICATIONS. JUN 2024, vol. 39. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2024.108609>, Registrované v: WOS

ADCA891 YONEDA, J.** - ROJAS-ARIAS, J. S. - STAÑO, Peter - TAKEDA, K. - NOIRI, A. - NAKAJIMA, T. - LOSS, D. - TARUCHA, S.**. Noise-correlation spectrum for a pair of spin qubits in silicon. In Nature Physics, 2023, vol. 19, no. 12, p. 1793-1798. (2022: 19.5 - IF, Q1 - JCR, 7.955 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1745-2473. Dostupné na: <https://doi.org/10.1038/s41567-023-02238-6>

Citácie:

1. [1.1] BRAGAR, Igor - CYWINSKI, Lukasz. Limitations on the maximal level of entanglement of two singlet-triplet qubits in GaAs quantum dots. In QUANTUM INFORMATION PROCESSING, 2024, vol. 23, no. 6, art. no. 215. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04407-9>, Registrované v: WOS

2. [1.1] CHENG, Guoting - GUO, Jing. Noise Correlation in Silicon Spin Qubits: A Computational Study. In 2024 IEEE INTERNATIONAL CONFERENCE ON QUANTUM COMPUTING AND ENGINEERING, QCE, VOL 1 : 2024 International Conference on Quantum Computing and Engineering, 2024, vol., no., pp. 1191-1196. Dostupné na: <https://doi.org/10.1109/QCE60285.2024.00140>, Registrované v: WOS

3. [1.1] D'ARRIGO, Antonio - PICCITTO, Giulia - FALCI, Giuseppe - PALADINO, Elisabetta. Open-loop quantum control of small-size networks for high-order cumulants and cross-correlations sensing. In SCIENTIFIC REPORTS, 2024, vol. 14, no. 1, art. no. 16681. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-67503-x>, Registrované v: WOS

4. [1.1] GYS, Benjamin - BURGELMAN, Lander - DE GREVE, Kristiaan - GIELEN, Georges - CATTHOOR, Francky. Hybrid Hamiltonian Simulation Approach for the Analysis of Quantum Error Correction Protocol Robustness. In IEEE TRANSACTIONS ON QUANTUM ENGINEERING, 2024, vol. 5, no., art. no. 5500511. Dostupné na: <https://doi.org/10.1109/TQE.2024.3486546>, Registrované v: WOS

5. [1.1] HEINZ, Irina - MILLS, Adam R. - PETTA, Jason R. - BURKARD, Guido. Analysis and mitigation of residual exchange coupling in linear spin-qubit arrays. In PHYSICAL REVIEW RESEARCH, 2024, vol. 6, no. 1, art. no. 013153. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.013153>, Registrované v: WOS

6. [1.1] KHAN, Muhammad Qasim - DONG, Wenzheng - NORRIS, Leigh M. - VIOLA, Lorenza. Multiaxis quantum noise spectroscopy robust to errors in state preparation and measurement. In PHYSICAL REVIEW APPLIED, 2024, vol. 22, no. 2, art. no. 024074. ISSN 2331-7019. Dostupné na:

<https://doi.org/10.1103/PhysRevApplied.22.024074>, Registrované v: WOS

7. [1.1] MEHMANDOOST, M. - DOBROVITSKI, V. V. Decoherence induced by a sparse bath of two-level fluctuators: Peculiar features of 1/f noise in high-quality qubits. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 3, art. no. 033175. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.033175>, Registrované v: WOS

8. [1.1] MUKHERJEE, Shreyasi - PENNA, Dario - CIRINNA, Fabio - PATERNOSTRO, Mauro - PALADINO, Elisabetta - FALCI, Giuseppe - GIANNELLI, Luigi. Noise classification in three-level quantum networks by Machine Learning. In *MACHINE LEARNING-SCIENCE AND TECHNOLOGY*, 2024, vol. 5, no. 4, art. no. 045049. Dostupné na: <https://doi.org/10.1088/2632-2153/ad9193>, Registrované v: WOS

9. [1.2] SUN, Wenbo - BHARADWAJ, Sathwik - ZHOU, Runwei - JIAO, Dan - JACOB, Zubin. Computational Electromagnetics Meets Spin Qubits: Controlling Noise Effects in Quantum Sensing and Computing. In *IEEE Journal on Multiscale and Multiphysics Computational Techniques*, 2024-01-01, 9, pp. 290-302. Dostupné na: <https://doi.org/10.1109/JMMCT.2024.3439531>, Registrované v: SCOPUS

ADCA892 YUN, Jiyoung** - RAI, Ashutosh** - BAE, Joonwoo**. Nonlocal Network Coding in Interference Channels. In *Physical Review Letters*, 2020, vol. 125, no. 15, art. no. 150502. (2019: 8.385 - IF, Q1 - JCR, 3.588 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.125.150502>

Citácie:

1. [1.1] FAWZI, Omar - FERME, Paul. Multiple-Access Channel Coding With Non-Signaling Correlations. In *IEEE TRANSACTIONS ON INFORMATION THEORY*, 2024, vol. 70, no. 3, pp. 1693-1719. ISSN 0018-9448. Dostupné na: <https://doi.org/10.1109/TIT.2023.3301719>, Registrované v: WOS

ADCA893 ZAFAR, Saima - ZUBAIR, Muhammad** - SHAH, Syed Mujtaba - KHAN, Muhammad Imtiaz - KHAN, Abbas Ahmad - IQBAL, Muhammad Faisal - HASSAN, Ali - DIN, Muhammad Faraz Ud. Effect of Fe doping on the structural and optical properties of ZnS macro-spheres. In *Optik : International Journal for Light and Electron Optics*, 2022, vol. 262, no. 16, art. no. 169342. (2021: 2.840 - IF, Q2 - JCR, 0.523 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0030-4026. Dostupné na: <https://doi.org/10.1016/j.ijleo.2022.169342>

Citácie:

1. [1.1] BAILON-RUIZ, Sonia J. - CEDENO-MATTEI, Yarilyn - NUNEZ-COLON, Angelie M. - TORRES-TORRES, Kerianys. Fast One-Step Microwave-Assisted Synthesis of Iron-Doped ZnS for Photocatalytic Applications. In *CRYSTALS*, 2024, vol. 14, no. 8, art. no. 699. Dostupné na:

<https://doi.org/10.3390/cryst14080699>, Registrované v: WOS

2. [1.1] HEIBA, Zein K. - ELLATIEF, Ah Abd - ELSHIMY, Hassan - AHMED, Sameh I. - MOHAMED, Mohamed Bakr. Impact of iron doping on the structural and optical properties of nano Tin mono-sulfide SnS. In *OPTICAL AND QUANTUM ELECTRONICS*, 2024, vol. 56, no. 1, art. no. 42. ISSN 0306-8919. Dostupné na: <https://doi.org/10.1007/s11082-023-05665-0>, Registrované v: WOS

3. [1.1] KHAN, Mohammad Ehtisham. Insights into Novel Doping Effect of Fe-Doped ZnS Nanostructures Derived from *Oxystelma esculentum*: Kinetics-Based Photocatalysis, Nitrogen Fixation, and Antifungal Efficacy. In *CATALYSTS*, 2024, vol. 14, no. 12, art. no. 888. Dostupné na: <https://doi.org/10.3390/catal14120888>, Registrované v: WOS

4. [1.1] M';HID, Abdelhamid Ait - LI, Guojian - BOUGHRARA, Mourad -

KEROUAD, Mohamed - WANG, Qiang. Tuning structure, stability and magnetism in vanadium doped zinc sulfide for spintronic applications: Insights from first-principles and Monte Carlo approaches. In *COMPUTATIONAL MATERIALS SCIENCE*, 2024, vol. 240, no., art. no. 112995. ISSN 0927-0256. Dostupné na: <https://doi.org/10.1016/j.commatsci.2024.112995>, Registrované v: WOS

5. [1.1] PANDEY, Tejasvi - SINGH, Abhishek - KAUNDAL, Rajinder Singh - PANDEY, Vivek. Cation exchange doping by transition and non-transition metals: embracing luminescence for band gap tunability in a ZnS lattice. In *NEW JOURNAL OF CHEMISTRY*, 2024, vol. 48, no. 3, pp. 1009-1035. ISSN 1144-0546. Dostupné na: <https://doi.org/10.1039/d3nj05285k>, Registrované v: WOS

6. [1.1] RAHMAN, Ashmalina - KHAN, Fazlurrahman - JENNINGS, James Robert - KIM, Young-Mog - KHAN, Mohammad Mansoob. Microwave-assisted synthesis of ZnS@CuInxSy for photocatalytic degradation of coloured and non-coloured pollutants. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 16155. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-66100-2>, Registrované v: WOS

7. [1.1] SANAD, Moustafa M. S. - MESELHY, Neama K. - ERAKY, Mostafa S. - TOGHAN, Arafat. One-pot synthesis of TiO₂-decorated SnSe/ZnS as a novel anode material with promoted storage capacity and cyclability in lithium-ion batteries. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*, 2024, vol. 35, no. 12, art. no. 850. ISSN 0957-4522. Dostupné na: <https://doi.org/10.1007/s10854-024-12596-3>, Registrované v: WOS

ADCA894 ZATKO, Bohumír** - HRUBČÍN, Ladislav - ŠAGÁTOVÁ, A. - OSVALD, Jozef - BOHÁČEK, Pavol - KOVÁČOVÁ, Eva - HALAHOVETS, Yuriy - ROZOV, S.V. - SANDUKOVSKIY, V.G. Study of Schottky barrier detectors based on a high quality 4H-SiC epitaxial layer with different thickness. In *Applied Surface Science*, 2021, vol. 536, no. 14, art. no. 147801. (2020: 6.707 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2020.147801>

Citácie:

1. [1.1] CAPAN, Ivana. Wide-Bandgap Semiconductors for Radiation Detection: A Review. In *MATERIALS*, 2024, vol. 17, no. 5, art. no. 1147. Dostupné na: <https://doi.org/10.3390/ma17051147>, Registrované v: WOS

2. [1.1] FENG, Jiecai - WANG, Junzhe - LIU, Hongfei - SUN, Yanning - FU, Xuwen - JI, Shaozheng - LIAO, Yang - TIAN, Yingzhong. A Review of an Investigation of the Ultrafast Laser Processing of Brittle and Hard Materials. In *MATERIALS*, 2024, vol. 17, no. 15, art. no. 3657. Dostupné na: <https://doi.org/10.3390/ma17153657>, Registrované v: WOS

3. [1.1] HE, Xiaoying - CAO, Pengcheng - LU, Zhangyu - RAO, Lan - XIN, Xiangjun. Transient behaviour analysis in silicon carbide alpha particle detector using TCAD and SRIM simulation. In *PHYSICA SCRIPTA*, 2024, vol. 99, no. 7, art. no. 075943. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad5236>, Registrované v: WOS

4. [1.1] LIU, L. Y. - LIU, A. - HE, S. Y. - ZHANG, X. P. - WANG, F. B. - GAO, R. L. - CHEN, L. - BAI, S. - OUYANG, X. P. Self-powered 4 H-SiC charged particle detector with 1 cm² sensitive area and 0.63% energy resolution. In *SENSORS AND ACTUATORS A-PHYSICAL*, 2024, vol. 369, no., art. no. 115204. ISSN 0924-4247. Dostupné na: <https://doi.org/10.1016/j.sna.2024.115204>, Registrované v: WOS

ADCA895 ZECHEL, F. - HUTÁR, Peter - VRETENÁR, Viliam - VÉGSÖ, Karol - ŠIFFALOVÍČ, Peter - SÝKORA, M.**. Green colloidal synthesis of MoS₂ nanoflakes. In *Inorganic Chemistry*, 2023, vol. 62, no. 40, pp. 16554-16563. (2022:

4.6 - IF, Q1 - JCR, 0.997 - SJR, Q1 - SJR). ISSN 0020-1669. Dostupné na:
<https://doi.org/10.1021/acs.inorgchem.3c02420>

Citácie:

1. [1.1] DAI, Yongping - HE, Qiyuan - HUANG, Yu - DUAN, Xiangfeng - LIN, Zhaoyang. *Solution-Processable and Printable Two-Dimensional Transition Metal Dichalcogenide Inks*. In *CHEMICAL REVIEWS*, 2024, vol. 124, no. 9, pp. 5795-5845. ISSN 0009-2665. Dostupné na:

<https://doi.org/10.1021/acs.chemrev.3c00791>, Registrované v: WOS

ADCA896 ZELENÁKOVÁ, Adriana - ZELENÁK, Vladimír - MAŤKO, Igor - STREČKOVÁ, Magdaléna - HRUBOVČÁK, Pavol - KOVÁČ, Jozef. Superferromagnetism in chain-like Fe@SiO₂ nanoparticle ensembles. In *Journal of Applied Physics*, 2014, vol. 116, 033907. (2013: 2.185 - IF, Q2 - JCR, 1.165 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0021-8979. Dostupné na:
<https://doi.org/10.1063/1.4890354>

Citácie:

1. [1.1] RATNASARI, D. - SEPTIANI, E.L. - NANDIYANTO, A.B.D. - CAO, K.L.A. - OKUDA, N. - MATSUMOTO, H. - HIRANO, T. - OGI, T. *Nanostructuring silica-iron core-shell particles in a one-step aerosol process*. In *RSC ADVANCES*. JUN 6 2024, vol. 14, no. 26, p. 18171-18180. Dostupné na:

<https://doi.org/10.1039/d4ra01154f>, Registrované v: WOS

2. [1.1] ZHANG, L.Z. - LI, J.T. - DU, J.R. - FANG, G. - ZHANG, D.Y. - TANG, Z.J. - GUO, H.B. - HE, X.W. *Current reconstruction approaches of magnetic particle imaging: A review*. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*. ISSN 0304-8853, MAR 15 2024, vol. 594. Dostupné na:

<https://doi.org/10.1016/j.jmmm.2024.171894>, Registrované v: WOS

ADCA897 ZEMANOVÁ DIEŠKOVÁ, M. - ŠTICH, Ivan - BOKES, P. Rigidity of the conductance of an anchored dithioazobenzene optomechanical switch. In *Physical Review B*, 2013, vol. 87, no. 24, art. no. 245418. (2012: 3.767 - IF, Q1 - JCR, 1.779 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.87.245418>

Citácie:

1. [1.1] WU, Shun-Da - CHEN, Zi-Zhen - SUN, Wen-Jing - SHI, Li-Yu-Yang - SHEN, An-Kang - CAO, Jing-Jing - LIU, Zitong - LAMBERT, Colin J. - ZHANG, Hao-Li. *Boosting the Photoresponse of Azobenzene Single-Molecule Junctions via Mechanical Interlock and Dynamic Anchor*. In *ACS NANO*, 2024, vol. 18, no. 45, pp. 31547-31558. ISSN 1936-0851. Dostupné na:

<https://doi.org/10.1021/acsnano.4c13010>, Registrované v: WOS

ADCA898 ZHANG, Man - XU, Xinzhaoh - AHMED, Shafique - YUE, Yajun - PALMA, Matteo - ŠVEC, Peter Jr. - GAO, Feng - ABRAHAMS, Isaac** - REECE, Michael J. - YAN, Haixue**. Phase transformations in an Aurivillius layer structured ferroelectric designed using the high entropy concept. In *Acta Materialia*, 2022, vol. 229, art. no. 117815. (2021: 9.209 - IF, Q1 - JCR, 2.828 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1359-6454. Dostupné na:
<https://doi.org/10.1016/j.actamat.2022.117815>

Citácie:

1. [1.1] BARTKOWSKA, Joanna A. - SZALBOT, Diana - MAKOWSKA, Jolanta - ADAMCZYK-HABRAJSKA, Malgorzata - STOKLOSA, Zbigniew. *Magnetic Properties of Gd-Doped Bi₇Fe₃Ti₃O₂₁ Aurivillius-Type Ceramics*. In *MATERIALS*, 2024, vol. 17, no. 15, art. no. 3760. Dostupné na:

<https://doi.org/10.3390/ma17153760>, Registrované v: WOS

2. [1.1] CHEN, Hao - XI, Jingwen - XING, Jie - LI, Hongjiang - TANG, Manjing - CHEN, Ning - CHEN, Qiang - TAN, Zhi - ZHU, Jianguo. *Deciphering the*

- synergistic action of multiple factors inducing high piezoresponse in $\text{CaBi}_4\text{Ti}_4\text{O}_{15}$ -based piezoelectric ceramics. In *JOURNAL OF THE AMERICAN CERAMIC SOCIETY*, 2024, vol. 107, no. 5, pp. 3277-3289. ISSN 0002-7820. Dostupné na: <https://doi.org/10.1111/jace.19633>, Registrované v: WOS
3. [1.1] CHEN, Shuai - WANG, Ting - XIE, Shaoxiong - LENG, Jiaju - ZHU, Qingfeng - LI, Kai - GONG, Weiping - ZHU, Jianguo - WANG, Qingyuan. High-Entropy Strategy for Improved Mechanical and Energy Storage Properties in BaTiO_3 - BiFeO_3 -Based Ceramics. In *ACS APPLIED MATERIALS & INTERFACES*, 2024, vol. 16, no. 10, pp. 12521-12533. ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.3c18262>, Registrované v: WOS
4. [1.1] CHENG, Huiru - LI, Yuhuan - PAN, Ziwen - LIU, Jiandang - YE, Bangjiao. Upconversion photoluminescence of Er-doped $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ ceramics enhanced by vacancy clusters revealed by positron annihilation spectroscopy. In *CHINESE PHYSICS B*, 2024, vol. 33, no. 12, art. no. 126102. ISSN 1674-1056. Dostupné na: <https://doi.org/10.1088/1674-1056/ad84ca>, Registrované v: WOS
5. [1.1] FAN, Mingzhi - CEN, Fangjie - GAO, Ruisi - PAN, Yangsheng - SHEN, Meng - ZHANG, Haibo - JIANG, Shenglin - LI, Kanghua - ZHANG, Guangzu. Nb/Mn co-doping enhances the pyroelectric properties of $\text{Na}_{0.5}\text{Bi}_{4.5}\text{Ti}_{40}\text{O}_{15}$ ceramics for infrared detection. In *JOURNAL OF THE AMERICAN CERAMIC SOCIETY*, 2024, vol. 107, no. 11, pp. 7460-7469. ISSN 0002-7820. Dostupné na: <https://doi.org/10.1111/jace.20032>, Registrované v: WOS
6. [1.1] JIAO, Yitao - DAI, Jian - FAN, Zhenhao - CHENG, Junye - ZHENG, Guangping - GREMA, Lawan - ZHONG, Junwen - LI, Hai-Feng - WANG, Dawei. Overview of high-entropy oxide ceramics. In *MATERIALS TODAY*, 2024, vol. 77, no., pp. 92-117. ISSN 1369-7021. Dostupné na: <https://doi.org/10.1016/j.mattod.2024.06.005>, Registrované v: WOS
7. [1.1] LIN, Wei - LI, Yang - ZHANG, Shumin - HE, Yunfei - ZHAO, Shifeng. Ergodic relaxor state regulated energy storage properties in dielectrics. In *APPLIED PHYSICS LETTERS*, 2024, vol. 125, no. 24, art. no. 243901. ISSN 0003-6951. Dostupné na: <https://doi.org/10.1063/5.0243531>, Registrované v: WOS
8. [1.1] MAKOWSKA, Jolanta - RERAK, Michal - WODECKA-DUS, Beata - GORYCZKA, Tomasz - TYTKO, Grzegorz - ZAWADA, Anna - ADAMCZYK-HABRAJSKA, Malgorzata. Impedance Spectroscopy of Sm-Doped of $\text{BaBi}_2\text{Nb}_2\text{O}_9$ Aurivillius Ceramics. In *MATERIALS*, 2024, vol. 17, no. 17, art. no. 4360. Dostupné na: <https://doi.org/10.3390/ma17174360>, Registrované v: WOS
9. [1.1] MENG, Meng - ZHANG, Leiyang - HUANG, Yunyao - YANG, Yule - LALETIN, Vladimir - SHUR, Vladimir - WEI, Xiaoyong - JIN, Li. High-entropy strategies boosting dielectric temperature stability in $(\text{Na}_{0.4}\text{K}_{0.1}\text{Bi}_{0.5})\text{TiO}_3$ ceramics. In *JOURNAL OF THE AMERICAN CERAMIC SOCIETY*, 2024, vol. 107, no. 9, pp. 6245-6253. ISSN 0002-7820. Dostupné na: <https://doi.org/10.1111/jace.19927>, Registrované v: WOS
10. [1.1] NING, Yating - PU, Yongping - WU, Chunhui - CHEN, Zhemin - ZHANG, Xuqing - ZHANG, Lei - WANG, Bo. Design strategy of high-entropy perovskite energy-storage ceramics: A review. In *JOURNAL OF THE EUROPEAN CERAMIC SOCIETY*, 2024, vol. 44, no. 8, pp. 4831-4843. ISSN 0955-2219. Dostupné na: <https://doi.org/10.1016/j.jeurceramsoc.2024.02.040>, Registrované v: WOS
11. [1.1] WAN, Qing - LI, Zeping - WANG, Huifeng - XIONG, Gang - WANG, Geng. Crystal Structure and Microwave Dielectric Characteristics of Novel $\text{Ba}(\text{Eu}_{1/5}\text{Sm}_{1/5}\text{Nd}_{1/5}\text{Pr}_{1/5}\text{La}_{1/5})_2\text{Ti}_4\text{O}_{12}$ High-Entropy Ceramic. In *CRYSTALS*, 2024, vol. 14, no. 9, art. no. 754. Dostupné na:

<https://doi.org/10.3390/cryst14090754>, Registrované v: WOS

12. [1.1] XIE, Mingjun - LAI, Yuanming - XIANG, Pingwen - LIU, Feng - ZHANG, Linqiao - LIAO, Xingyue - HUANG, Huan - LIU, Qian - WU, Chongsheng - LI, Yuanxun. The entropy effect on the structure and microwave dielectric properties of high-entropy $\text{Li}_x(\text{MgZnCoNi})_{(1-x)/4}\text{Al}_2\text{O}_4\text{-}\delta$ ceramics. In *CHEMICAL ENGINEERING JOURNAL*, 2024, vol. 496, no., art. no. 154132. ISSN 1385-8947. Dostupné na: <https://doi.org/10.1016/j.cej.2024.154132>, Registrované v: WOS

13. [1.1] YE, Rongrong - CHUNG, Wonjun. Design of composite layered ferroelectric ceramic lamps based on stable diffusion model under the background of meta-universe. In *FERROELECTRICS*, 2024, vol. 618, no. 15-16, pp. 2447-2460. ISSN 0015-0193. Dostupné na:

<https://doi.org/10.1080/00150193.2024.2325898>, Registrované v: WOS

14. [1.1] ZHANG, Bi Hui - XU, Diming - GUO, Rui Ze - LIU, Lu - LIU, Xiao Qiang - CHEN, Xiang Ming. Hybrid improper ferroelectricity and phase transition behavior of $\text{Li}_2\text{Nd}_2\text{Ti}_3\text{O}_{10}$ ceramics with A-site ordered triple-layer RuddlesdenPopper structure. In *JOURNAL OF MATERIMICS*, 2024, vol. 10, no. 1, pp. 145-153. ISSN 2352-8478. Dostupné na:

<https://doi.org/10.1016/j.jmat.2023.04.012>, Registrované v: WOS

15. [1.1] ZHANG, Wen-Tao - WANG, Xue-Qian - ZHANG, Feng-Qi - CUI, Xiao-Ya - FAN, Bing-Bing - GUO, Jia-Ming - GUO, Zhi-Min - HUANG, Rui - HUANG, Wen - LI, Xu-Bo - LI, Meng-Ru - MA, Yan - SHEN, Zhi-Hua - SUN, Yong-Gang - WANG, De-Zhuang - WANG, Fei-Yang - WANG, Li-Qiang - WANG, Nan - WANG, Tian-Li - WANG, Wei - WANG, Xiao-Yang - WANG, Yi-Han - YU, Fu-Jie - YIN, Yu-Zhen - ZHANG, Ling-Kun - ZHANG, Yi - ZHANG, Jian-Yang - ZHAO, Qi - ZHAO, Yu-Ping - ZHU, Xin-Dong - SOHAIL, Yasir - CHEN, Ya-Nan - FENG, Tao - GAO, Qi-Long - HE, Hai-Yan - HUANG, Yong-Jiang - JIAO, Zeng-Bao - JI, Hua - JIANG, Yao - LI, Qiang - LI, Xiao-Ming - LIAO, Wei-Bing - LIN, Huai-Jun - LIU, Hui - LIU, Qi - LIU, Qing-Feng - LIU, Wei-Di - LIU, Xiong-Jun - LU, Yang - LU, Yi-Ping. Frontiers in high entropy alloys and high entropy functional materials. In *RARE METALS*, 2024, vol. 43, no. 10, pp. 4639-4776. ISSN 1001-0521. Dostupné na: <https://doi.org/10.1007/s12598-024-02852-0>, Registrované v: WOS

16. [1.1] ZHANG, Y. - SONG, D. P. - HUI, Z. Z. - LEI, Y. - LI, R. Z. - PEI, C. H. - YANG, J. The $\text{SrBi}_4\text{Ti}_4\text{O}_{15}$ -based sandwich-structured films for energy storage capacitors. In *JOURNAL OF APPLIED PHYSICS*, 2024, vol. 136, no. 15, art. no. 154103. ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/5.0233632>, Registrované v: WOS

17. [1.2] ZHOU, Donghuan - CHEN, Liang - QI, He - CHEN, Jun. Research and Development of High Entropy Ferroelectrics. In *Kuei Suan Jen Hsueh Pao Journal of the Chinese Ceramic Society*, 2024-09-01, 52, 9, pp. 3074-3090. ISSN 04545648. Dostupné na: <https://doi.org/10.14062/j.issn.0454-5648.20230889>, Registrované v: SCOPUS

ADCA899 ZHANG, Quanzhen - LI, Yan Jun** - WEN, Huan Fei - ADACHI, Yuuki - MIYAZAKI, Masato - SUGAWARA, Yasuhiro - XU, Rui - CHENG, Zhi Hai - BRNDIAR, Ján - KANTOROVICH, Lev - ŠTICH, Ivan. Measurement and manipulation of the charge state of an adsorbed oxygen adatom on the rutile $\text{TiO}_2(110)\text{-}1\times 1$ surface by nc-AFM and KPFM. In *Journal of the American Chemical Society*, 2018, vol. 140, no. 46, p. 15668-15674. (2017: 14.357 - IF, Q1 - JCR, 8.127 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0002-7863. Dostupné na: <https://doi.org/10.1021/jacs.8b07745>

Citácie:

1. [1.1] BELL, Jon G. - HUANGFU, Shangxiong - ARTIGLIA, Luca - GRAULE, Thomas - STUER, Michael. Hydrogen spillover drives room temperature sensing on spark plasma sintered BaTiO₃ with Pt electrodes. In JOURNAL OF MATERIALS CHEMISTRY A, 2024, vol. 12, no. 46, pp. 31993-32013. ISSN 2050-7488. Dostupné na: <https://doi.org/10.1039/d4ta02865a>, Registrované v: WOS
2. [1.1] LI, Xinpei - ZHANG, Wen - YANG, Fan - YAO, Shuang - LI, Lina - AN, Xuguang - XI, Baojuan - XIONG, Shenglin - AN, Changhua. Reinforced Electrons Transfer and Capture in S-Scheme TiO₂@Co(OH)F-Pt Heterojunction for Excellent Solar Hydrogen Evolution. In ADVANCED ENERGY MATERIALS, 2024, vol. 14, no. 37, pp. ISSN 1614-6832. Dostupné na: <https://doi.org/10.1002/aenm.202401877>, Registrované v: WOS
3. [1.1] SUN, Rulin - LIU, Xinlu - LI, Fangliang - CHE, Li. Activity and adsorption behavior of oxygen on rutile TiO₂(110). In CHINESE JOURNAL OF CHEMICAL PHYSICS, 2024, vol. 37, no. 5, pp. 619-626. ISSN 1674-0068. Dostupné na: <https://doi.org/10.1063/1674-0068/cjcp2402018>, Registrované v: WOS

ADCA900 ZHANG, Quanzhen - BRNDIAR, Ján - KONÔPKA, Martin - WEN, Huan Fei - ADACHI, Yuuki - MIYAZAKI, Masato - TURANSKÝ, Robert - XU, Rui - CHENG, Zhi Hai - SUGAWARA, Yasuhiro - ŠTICH, Ivan - LI, Yan Jun**. Unraveling the Charge States of Au Nanoclusters on an Oxygen-Rich Rutile TiO₂(110) Surface and Their Triboelectrification Overturn by nc-AFM and KPFM. In Journal of Physical Chemistry C, 2021, vol. 125, no. 50, p. 27607-27614. (2020: 4.126 - IF, Q2 - JCR, 1.401 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1932-7447. Dostupné na: <https://doi.org/10.1021/acs.jpcc.1c07997>

Citácie:

1. [1.1] LAU, Kinran - GIERA, Brian - BARCIKOWSKI, Stephan - REICHENBERGER, Sven. The multivariate interaction between Au and TiO₂ colloids: the role of surface potential, concentration, and defects. In NANOSCALE, 2024, vol. 16, no. 5, pp. 2552-2564. ISSN 2040-3364., Registrované v: WOS

ADCA901 ZHU, S.J. - HAMILTON, J.H. - RAMAYYA, A.V. - JONES, E.F. - HWANG, J.K. - WANG, M.G. - ZHANG, X.Q. - GORE, P.M. - PEKER, L.K. - DRAFTA, G. - BABU, B.R.S. - MA, W.C. - LONG, G.L. - ZHU, L.Y. - GAN, C.Y. - YANG, L.M. - SAKHAEI, M. - LI, H. - DENG, J.K. - GINTER, T.N. - BEYER, C.J. - KORMICKI, J. - COLE, J.D. - ARYAEINEJAD, R. - DRIGERT, M.W. - RASMUSSEN, J.O. - ASZTALOS, S. - LEE, I.Y. - MACCHIAVELLI, A.O. - CHU, S.Y. - GREFORICH, K.E. - MOHAR, M.F. - TER-AKOPIAN, G.M. - DANIEL, A.V. - OGANESSIAN, Y.T. - DONANGELO, R. - STOYER, M.A. - LOUGHEED, R.W. - MOODY, K.J. - WILD, J.F. - PRUSSIN, S.G. - KLIMAN, Ján - GRIFFIN, H.C. Octupole correlations in neutron-rich ^{143,145}Ba and a type of superdeformed band in ¹⁴⁵Ba. In Physical Review C, 1999, vol. 60, no. 5, art. no. 051304. (1999 - Current Contents, SCOPUS). ISSN 2469-9985.

Citácie:

1. [1.1] LI, Ze-Kai - WANG, Yuan-Yuan. Robustness of the octupole collectivity in ¹⁴⁴SupBa/¹⁴⁵SupBa within the cranking covariant density functional theory in 3D lattice. In NUCLEAR SCIENCE AND TECHNIQUES, 2024, vol. 35, no. 8, art. no. 139. ISSN 1001-8042. Dostupné na: <https://doi.org/10.1007/s41365-024-01532-z>, Registrované v: WOS
2. [1.1] PRAJAPATI, Mamta - NAG, Somnath - PAI, H. - CHAKRABORTY, S. - BHATTACHARYA, Soumik - ALI, Sajad - RAJBANSHI, S. - RAY, Prithwijita - SAHOO, Subhrajit - SRIVASTAVA, Praveen C. - MENG, J. - XU, F. F. - GOSWAMI, A. - BANIK, R. - NANDI, S. - BHATTACHARYA, S. - MUKHERJEE,

G. - BHATTACHARYA, C. - LASKAR, S. R. - PALIT, R. - SAMANTA, S. - DAS, S. - CHATTARJEE, S. - RAUT, R. - GHUGRE, S. S. Evolution of quadrupole and octupole excitations beyond noncollective states in ^{114}Te . In *PHYSICAL REVIEW C*, 2024, vol. 110, no. 6, art. no. 064321. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.064321>, Registrované v: WOS

ADCA902

ZHUMAGULOV, Yaroslav - KOCHAN, Denis** - FABIAN, Jaroslav. Swapping exchange and spin-orbit induced correlated phases in proximitized Bernal bilayer graphene. In *Physical Review B*, 2024, vol. 110, no. 4, art. no. 045427. (2023: 3.2 - IF, Q2 - JCR, 1.345 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.045427>

Citácie:

1. [1.1] KOH, Jin Ming - THOMSON, Alex - ALICEA, Jason - LANTAGNE-HURTUBISE, Etienne. Symmetry-broken metallic orders in spin-orbit-coupled Bernal bilayer graphene. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 24, art. no. 245118. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.245118>, Registrované v: WOS

2. [1.1] LANTAGNE-HURTUBISE, Etienne - ESIN, Iliya - REFAEL, Gil - NATHAN, Frederik. Topological frequency conversion in rhombohedral multilayer graphene. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 10, art. no. L100305. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.L100305>, Registrované v: WOS

3. [1.1] TAN, Yuting - CHOU, Yang-Zhi - WU, Fengcheng - DAS SARMA, Sankar. Topological phases, van Hove singularities, and spin texture in magic-angle twisted bilayer graphene in the presence of proximity-induced spin-orbit couplings. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 16, art. no. 165406. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.165406>, Registrované v: WOS

ADCA903

ZHUMAGULOV, Yaroslav - KOCHAN, Denis - FABIAN, Jaroslav. Emergent correlated phases in rhombohedral trilayer graphene induced by proximity spin-orbit and exchange coupling. In *Physical Review Letters*, 2024, vol. 132, no. 18, art. no. 186401. (2023: 8.1 - IF, Q1 - JCR, 3.04 - SJR, Q1 - SJR). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.186401>

Citácie:

1. [1.1] ARP, Trevor - SHEEKEY, Owen - ZHOU, Haoxin - TSCHIRHART, C. L. - PATTERSON, Caitlin L. - YOO, H. M. - HOLLEIS, Ludwig - REDEKOP, Evgeny - BABIKYAN, Grigory - XIE, Tian - XIAO, Jiewen - VITURI, Yaar - HOLDER, Tobias - TANIGUCHI, Takashi - WATANABE, Kenji - HUBER, Martin E. - BERG, Erez - YOUNG, Andrea F. Intervalley coherence and intrinsic spin-orbit coupling in rhombohedral trilayer graphene. In *NATURE PHYSICS*, 2024, vol. 20, no. 9. ISSN 1745-2473. Dostupné na: <https://doi.org/10.1038/s41567-024-02560-7>, Registrované v: WOS

2. [1.1] DAS, Mainak - HUANG, Chunli. Quarter-metal phases in multilayer graphene: Ising-XY and annular Lifshitz transitions. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 3, art. no. 035103. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.035103>, Registrované v: WOS

3. [1.1] FISCHER, Ammon - KLEBL, Lennart - KENNES, Dante M. - WEHLING, Tim O. Supercell Wannier functions and a faithful low-energy model for Bernal bilayer graphene. In *PHYSICAL REVIEW B*, 2024, vol. 110, no. 20, art. no. L201113. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.L201113>, Registrované v: WOS

4. [1.1] KOH, Jin Ming - THOMSON, Alex - ALICEA, Jason - LANTAGNE-

HURTUBISE, Etienne. Symmetry-broken metallic orders in spin-orbit-coupled Bernal bilayer graphene. In PHYSICAL REVIEW B, 2024, vol. 110, no. 24, art. no. 245118. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.245118>, Registrované v: WOS

5. [1.1] *LANTAGNE-HURTUBISE, Etienne - ESIN, Iliya - REFAEL, Gil - NATHAN, Frederik. Topological frequency conversion in rhombohedral multilayer graphene. In PHYSICAL REVIEW B, 2024, vol. 110, no. 10, art. no. L100305. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.L100305>, Registrované v: WOS*

6. [1.1] *TAN, Yuting - CHOU, Yang-Zhi - WU, Fengcheng - DAS SARMA, Sankar. Topological phases, van Hove singularities, and spin texture in magic-angle twisted bilayer graphene in the presence of proximity-induced spin-orbit couplings. In PHYSICAL REVIEW B, 2024, vol. 110, no. 16, art. no. 165406. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.165406>, Registrované v: WOS*

7. [1.2] *KOH, Jin Ming - ALICEA, Jason - LANTAGNE-HURTUBISE, Étienne. Correlated phases in spin-orbit-coupled rhombohedral trilayer graphene. In Physical Review B, 2024-01-15, 109, 3, pp. ISSN 24699950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.035113>, Registrované v: SCOPUS*

8. [1.2] *WANG, Taige - VILA, Marc - ZALETEL, Michael P. - CHATTERJEE, Shubhayu. Electrical Control of Spin and Valley in Spin-Orbit Coupled Graphene Multilayers. In Physical Review Letters, 2024-03-15, 132, 11, pp. ISSN 00319007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.116504>, Registrované v: SCOPUS*

ADCA904 ZIMAN, Mário - BUŽEK, Vladimír. Correlation-assisted quantum communication. In Physical Review A, 2003, vol. 67, no. 4, art. no. 042321. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.67.042321>

Citácie:

1. [1.1] *MUHURI, Abhishek - GUPTA, Rivu - GHOSH, Srijon - SEN(DE), Aditi. Superiority in dense coding through non-Markovian stochasticity. In PHYSICAL REVIEW A, 2024, vol. 109, no. 3, art. no. 032616. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.032616>, Registrované v: WOS*

2. [1.1] *PATRA, Ayan - GUPTA, Rivu - DAS, Tamoghna - SEN(DE), Aditi. Dimensional advantage in secure information trading via the noisy dense-coding protocol. In PHYSICAL REVIEW A, 2024, vol. 110, no. 3, art. no. 032419. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.032419>, Registrované v: WOS*

ADCA905 ZIMAN, Mário - ŠTELMACHOVIČ, Peter - BUŽEK, Vladimír - HILLERY, M. - SCARANI, V. - GISIN, N. Diluting quantum information: An analysis of information transfer in system-reservoir interactions. In Physical Review A, 2002, vol. 65, no. 4, art. no. 042105. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.65.042105>

Citácie:

1. [1.1] *BEEVER, Anna - VIOLARIS, Maria - MARLETTO, Chiara - VEDRAL, Vlatko. Comparing coherent and incoherent models for quantum homogenization. In PHYSICAL REVIEW A, 2024, vol. 110, no. 1, art. no. 012464. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.012464>, Registrované v: WOS*

2. [1.1] *CUSUMANO, Stefano - DE CHIARA, Gabriele. Structured quantum collision models: generating coherence with thermal resources. In NEW JOURNAL OF PHYSICS, 2024, vol. 26, no. 2, art. no. 023001. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad202a>, Registrované v: WOS*

3. [1.1] DI PIETRA, Giuseppe - VEDRAL, Vlatko - MARLETTO, Chiara. Temporal witnesses of non-classicality in a macroscopic biological system. In SCIENTIFIC REPORTS, 2024, vol. 14, no. 1, art. no. 20094. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-66159-x>, Registrované v: WOS
4. [1.1] MOLITOR, Otavio A. D. - MALAVAZI, Andre H. A. - BALDIJAO, Roberto Dobal - ORTHEY JR, Alexandre C. - PAIVA, Ismael L. - DIEGUEZ, Pedro R. Quantum switch instabilities with an open control. In COMMUNICATIONS PHYSICS, 2024, vol. 7, no. 1, art. no. 373. ISSN 2399-3650. Dostupné na: <https://doi.org/10.1038/s42005-024-01843-y>, Registrované v: WOS
5. [1.1] PLESNIK, Samuel - VIOLARIS, Maria. Impossibility of universal work extraction from coherence: reconciling axiomatic and resource-theory approaches. In NEW JOURNAL OF PHYSICS, 2024, vol. 26, no. 10, art. no. 103019. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad7f7c>, Registrované v: WOS
6. [1.1] RIECHERS, Paul M. - GUPTA, Chaitanya - KOLCHINSKY, Artemy - GU, Mile. Thermodynamically Ideal Quantum State Inputs to Any Device. In PRX QUANTUM, 2024, vol. 5, no. 3, art. no. 030318. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.030318>, Registrované v: WOS
7. [1.1] SAHA, Tanmay - DAS, Arpan - GHOSH, Sibasish. Quantum homogenization in non-Markovian collisional model. In NEW JOURNAL OF PHYSICS, 2024, vol. 26, no. 2, art. no. 023011. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad212f>, Registrované v: WOS
8. [1.1] STRACHAN, David J. - PURKAYASTHA, Archak - CLARK, Stephen R. Extracting dynamical maps of non-Markovian open quantum systems. In JOURNAL OF CHEMICAL PHYSICS, 2024, vol. 161, no. 15, art. no. 154105. ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/5.0228428>, Registrované v: WOS
9. [1.1] YANG, Jing. Quantum measurement encoding for quantum metrology. In PHYSICAL REVIEW RESEARCH, 2024, vol. 6, no. 4, art. no. 043084. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.043084>, Registrované v: WOS
10. [1.1] YOSIFOV, Alexander - IYER, Aditya - EBLER, Daniel - VEDRAL, Vlatko. Quantum homogenization as a quantum steady-state protocol on noisy intermediate-scale quantum hardware. In PHYSICAL REVIEW A, 2024, vol. 109, no. 3, art. no. 032624. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.032624>, Registrované v: WOS

ADCA906

ZIMAN, Mário. Process positive-operator-valued measure: A mathematical framework for the description of process tomography experiments. In Physical Review A, 2008, vol. 77, no. 6, art. no. 062112. (2007: 2.893 - IF, Q1 - JCR, 2.524 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.77.062112>

Citácie:

1. [1.1] ANTESBERGER, Michael - QUINTINO, Marco Tulio - WALTHER, Philip - ROZEMA, Lee A. Higher-Order Process Matrix Tomography of a Passively-Stable Quantum Switch. In PRX QUANTUM, 2024, vol. 5, no. 1, art. no. 010325. Dostupné na: <https://doi.org/10.1103/PRXQuantum.5.010325>, Registrované v: WOS
2. [1.1] APADULA, Luca - BISIO, Alessandro - PERINOTTI, Paolo. No-signalling constrains quantum computation with indefinite causal structure. In QUANTUM, 2024, vol. 8, no., art. no. 1241. ISSN 2521-327X., Registrované v: WOS
3. [1.1] BAVARESCO, Jessica - LIPKA-BARTOSIK, Patryk - SEKATSKI, Pavel - MEHBOUDI, Mohammad. Designing optimal protocols in Bayesian quantum

parameter estimation with higher-order operations. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 2, art. no. 023305. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.023305>, Registrované v: WOS

4. [1.1] CHIRIBELLA, Giulio. Extreme quantum states and processes, and extreme points of general spectrahedra in finite dimensional algebras. In *INTERNATIONAL JOURNAL OF QUANTUM INFORMATION*, 2024, vol. 22, no. 05. ISSN 0219-7499. Dostupné na: <https://doi.org/10.1142/S0219749924400045>, Registrované v: WOS

5. [1.1] KRAWIEC, Aleksandra - PAWELA, Lukasz - PUCHALA, Zbigniew. Discrimination and certification of unknown quantum measurements. In *QUANTUM*, 2024, vol. 8, no., art. no. 1269. ISSN 2521-327X., Registrované v: WOS

6. [1.1] LUNG, Shaun - WANG, Kai - PEDERSEN, Nicolas R. H. - SETZPFANDT, Frank - SUKHORUKOV, Andrey A. Robust Classical and Quantum Polarimetry with a Single Nanostructured Metagrating. In *ACS PHOTONICS*, 2024, vol. 11, no. 3, pp. 1060-1067. ISSN 2330-4022. Dostupné na: <https://doi.org/10.1021/acsphotonics.3c01287>, Registrované v: WOS

7. [1.1] MILZ, Simon - QUINTINO, Marco Tulio. Characterising transformations between quantum objects, 'completeness' of quantum properties, and transformations without a fixed causal order. In *QUANTUM*, 2024, vol. 8, no., art. no. 1415. ISSN 2521-327X., Registrované v: WOS

8. [1.1] RAGINI, Nidhin Sudarsanan - SAZIM, Sk. Higher-order incompatibility improves distinguishability of causal quantum networks. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 12, art. no. 123003. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad93f6>, Registrované v: WOS

9. [1.1] STROEMBERG, Teodor - SCHIANSKY, Peter - QUINTINO, Marco Tulio - ANTESBERGER, Michael - ROZEMA, Lee A. - AGRESTI, Iris - BRUKNER, Caslav - WALTHER, Philip. Experimental superposition of a quantum evolution with its time reverse. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 2, art. no. 023071. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.023071>, Registrované v: WOS

ADCA907 ZIMAN, Mário - BUŽEK, Vladimír. All (qubit) decoherences: Complete characterization and physical implementation. In *Physical Review A*, 2005, vol. 72, no. 2, art. no. 022110. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.72.022110>

Citácie:

1. [1.1] CHIRIBELLA, Giulio. Extreme quantum states and processes, and extreme points of general spectrahedra in finite dimensional algebras. In *INTERNATIONAL JOURNAL OF QUANTUM INFORMATION*, 2024, vol. 22, no. 05. ISSN 0219-7499. Dostupné na: <https://doi.org/10.1142/S0219749924400045>, Registrované v: WOS

2. [1.1] DI PIETRA, Giuseppe - VEDRAL, Vlatko - MARLETTO, Chiara. Temporal witnesses of non-classicality in a macroscopic biological system. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 20094. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-66159-x>, Registrované v: WOS

3. [1.1] HUANG, Rui - XIA, Yun-Jie - MAN, Zhong-Xiao. Manipulation and enhancement of the performance of Otto cycle in the presence of nonthermal reservoirs. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 3, art. no. 033052. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad3573>, Registrované v: WOS

4. [1.1] SAHA, Tanmay - DAS, Arpan - GHOSH, Sibasish. Quantum homogenization in non-Markovian collisional model. In *NEW JOURNAL OF*

PHYSICS, 2024, vol. 26, no. 2, art. no. 023011. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad212f>, Registrované v: WOS

5. [1.1] TIAN, Feng - ZOU, Jian - LI, Hai - HAN, Liping - SHAO, Bin. Relationship between Information Scrambling and Quantum Darwinism. In ENTROPY, 2024, vol. 26, no. 1, art. no. 19. Dostupné na: <https://doi.org/10.3390/e26010019>, Registrované v: WOS

ADCA908 ZIMAN, Mário - HEINOSAARI, T. - SEDLÁK, Michal. Unambiguous comparison of quantum measurements. In Physical Review A, 2009, vol. 80, no. 5, art. no. 052102. (2008: 2.908 - IF, Q1 - JCR, 2.536 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.80.052102>

Citácie:

1. [1.1] KRAWIEC, Aleksandra - PAWELA, Lukasz - PUCHALA, Zbigniew. Discrimination and certification of unknown quantum measurements. In QUANTUM, 2024, vol. 8, no., art. no. 1269. ISSN 2521-327X., Registrované v: WOS

ADCA909 ZIMAN, Mário - BUŽEK, Vladimír. Realization of positive-operator-valued measures using measurement-assisted programmable quantum processors. In Physical Review A, 2005, vol. 72, no. 2, art. no. 022343. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.72.022343>

Citácie:

1. [1.1] RODARI, Giovanni - HOCH, Francesco - SUPRANO, Alessia - GIORDANI, Taira - NEGRO, Elena - CARVACHO, Gonzalo - SPAGNOLO, Nicolo - GALVAO, Ernesto F. - SCIARRINO, Fabio. Polarization-encoded photonic quantum-to-quantum Bernoulli factory based on a quantum dot source. In SCIENCE ADVANCES, 2024, vol. 10, no. 30, art. no. eado6244. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.ado6244>, Registrované v: WOS

ADCA910 ZIMAN, Mário - ŠTELMACHOVIČ, Peter - BUŽEK, Vladimír. Description of quantum dynamics of open systems based on collision-like models. In Open Systems and Information Dynamics, 2005, vol. 12, no. 1, p. 81-91. Dostupné na: <https://doi.org/10.1007/s11080-005-0488-0>

Citácie:

1. [1.1] BAECKER, Charlotte - BEYER, Konstantin - STRUNZ, Walter T. Local Disclosure of Quantum Memory in Non-Markovian Dynamics. In PHYSICAL REVIEW LETTERS, 2024, vol. 132, no. 6, art. no. 060402. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.060402>, Registrované v: WOS

2. [1.1] CIVOLANI, Alessandro - STANZIONE, Vittoria - CHIOFALO, Maria Luisa - YAGO MALO, Jorge - SERGI, Alessandro - MESSINA, Antonino. Engineering Transport via Collisional Noise: A Toolbox for Biology Systems. In ENTROPY, 2024, vol. 26, no. 1, art. no. 20. Dostupné na: <https://doi.org/10.3390/e26010020>, Registrované v: WOS

3. [1.1] DI PIETRA, Giuseppe - VEDRAL, Vlatko - MARLETTO, Chiara. Temporal witnesses of non-classicality in a macroscopic biological system. In SCIENTIFIC REPORTS, 2024, vol. 14, no. 1, art. no. 20094. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-66159-x>, Registrované v: WOS

4. [1.1] DOUCET, Emery - DEFFNER, Sebastian. Classifying Two-Body Hamiltonians for Quantum Darwinism. In PHYSICAL REVIEW X, 2024, vol. 14, no. 4, art. no. 041064. ISSN 2160-3308. Dostupné na: <https://doi.org/10.1103/PhysRevX.14.041064>, Registrované v: WOS

5. [1.1] MI, X. - MICHAILIDIS, A. A. - SHABANI, S. - MIAO, K. C. - KLIMOV, P. V. - LLOYD, J. - ROSENBERG, E. - ACHARYA, R. - ALEINER, I. - ANDERSEN,

T. I. - ANSMANN, M. - ARUTE, F. - ARYA, K. - ASFAW, A. - ATALAYA, J. - BARDIN, J. C. - BENGTSSON, A. - BORTOLI, G. - BOURASSA, A. - BOVAIRD, J. - BRILL, L. - BROUGHTON, M. - BUCKLEY, B. B. - BUELL, D. A. - BURGER, T. - BURKETT, B. - BUSHNELL, N. - CHEN, Z. - CHIARO, B. - CHIK, D. - CHOU, C. - COGAN, J. - COLLINS, R. - CONNER, P. - COURTNEY, W. - CROOK, A. L. - CURTIN, B. - DAU, A. G. - DEBROY, D. M. - BARBA, A. Del Toro - DEMURA, S. - DI PAOLO, A. - DROZDOV, I. K. - DUNSWORTH, A. - ERICKSON, C. - FAORO, L. - FARHI, E. - FATEMI, R. - FERREIRA, V. S. - BURGOS, L. F. Stable quantum-correlated many-body states through engineered dissipation. In *SCIENCE*, 2024, vol. 383, no. 6689, pp. 1332-1337. ISSN 0036-8075. Dostupné na: <https://doi.org/10.1126/science.adh9932>, Registrované v: WOS

6. [1.1] MORI, Takashi. Strong Markov Dissipation in Driven-Dissipative Quantum Systems. In *JOURNAL OF STATISTICAL PHYSICS*, 2024, vol. 192, no. 1, art. no. 1. ISSN 0022-4715. Dostupné na: <https://doi.org/10.1007/s10955-024-03377-7>, Registrované v: WOS

7. [1.1] SAHA, Tanmay - DAS, Arpan - GHOSH, Sibasish. Quantum homogenization in non-Markovian collisional model. In *NEW JOURNAL OF PHYSICS*, 2024, vol. 26, no. 2, art. no. 023011. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad212f>, Registrované v: WOS

8. [1.1] TIAN, Feng - ZOU, Jian - LI, Hai - HAN, Liping - SHAO, Bin. Relationship between Information Scrambling and Quantum Darwinism. In *ENTROPY*, 2024, vol. 26, no. 1, art. no. 19. Dostupné na: <https://doi.org/10.3390/e26010019>, Registrované v: WOS

ADCA911 ZIMAN, Mário - ŠTELMACHOVIČ, Peter - BUŽEK, Vladimír. On the local unitary equivalence of states, of multi-partite systems. In *Fortschritte der Physik*, 2001, vol. 49, no. 10-11, p. 1123-1131. ISSN 0015-8208. Dostupné na: [https://doi.org/10.1002/1521-3978\(200110\)49:10/11::AID-PROP1123o.0.CO;2-Q](https://doi.org/10.1002/1521-3978(200110)49:10/11::AID-PROP1123o.0.CO;2-Q)
Citácie:

1. [1.1] ALMAS, S. Mohammadi - NAJARBASHI, G. - TAVANA, A. Geometric phase for two-mode entangled squeezed-coherent states. In *INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS*, 2024, vol. 21, no. 08. ISSN 0219-8878. Dostupné na: <https://doi.org/10.1142/S0219887824501470>, Registrované v: WOS

2. [1.1] LUNA-HERNANDEZ, Salvio - ENRIQUEZ, Marco - ROSAS-ORTIZ, Oscar. A geometric formulation to measure global and genuine entanglement in three-qubit systems. In *SCIENTIFIC REPORTS*, 2024, vol. 14, no. 1, art. no. 25684. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-76566-9>, Registrované v: WOS

ADCA912 ZIMAN, Mário - BUŽEK, Vladimír. Concurrence versus purity: Influence of local channels on Bell states of two qubits. In *Physical Review A*, 2005, vol. 72, no. 5, art. no. 053325. ISSN 1050-2947. Dostupné na: <https://doi.org/10.1103/PhysRevA.72.052325>

Citácie:

1. [1.1] TORRES, Juan Mauricio - BERNAD, Jozsef Zsolt - GOMEZ-ROSAS, Rocio. Performance of entanglement purification including maximally entangled mixed states. In *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, 2024, vol. 57, no. 31, art. no. 315302. ISSN 1751-8113.

Dostupné na: <https://doi.org/10.1088/1751-8121/ad5f6a>, Registrované v: WOS

ADCA913 ZIPPILLI, S. - GRAJCAR, Miroslav - ILICHEV, E. - ILLUMINATI, F. Simulating long-distance entanglement in quantum spin chains by superconducting flux qubits. In *Physical Review A*, 2015, vol. 91, no. 2, art. no. 022315. (2014: 2.808 - IF, Q1 -

JCR, 2.201 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1050-2947. Dostupné na:
<https://doi.org/10.1103/PhysRevA.91.022315>

Citácie:

1. [1.1] KAREVSKI, Dragi. *Free fermions in the repeated interactions scheme*. In *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, 2024, vol. 57, no. 31, art. no. 315004. ISSN 1751-8113. Dostupné na:

<https://doi.org/10.1088/1751-8121/ad61d5>, Registrované v: WOS

2. [1.1] LI, X. X. - LI, D. X. - SHAO, X. Q. *Generation of complete graph states in a spin-1/2 Heisenberg chain with a globally optimized magnetic field*. In *PHYSICAL REVIEW A*, 2024, vol. 109, no. 4, art. no. 042604. ISSN 2469-9926.

Dostupné na: <https://doi.org/10.1103/PhysRevA.109.042604>, Registrované v: WOS

ADCA914 ZWADLO, Matthias - HAGARA, Jakub - DUVA, Giuliano - HAGENLOCHER, Jan - GERLACH, Alexander - ZALUZHNY, Ivan - HODAS, Martin - HINDERHOFER, Alexander - ŠIFFALOVIČ, Peter - SCHREIBER, Frank**. Structure of Thin Films of [6] and [7]Phenacene and Impact of Potassium Deposition. In *Advanced Optical Materials*, 2021, vol. 9, no. 14, art. no. 2002193. (2020: 9.926 - IF, Q1 - JCR, 2.890 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2195-1071. Dostupné na: <https://doi.org/10.1002/adom.202002193>

Citácie:

1. [1.1] SINGH, Abhishek - LIN, Ting You - YEH, Yu Feng - OKAMOTO, Hideki - HOFFMANN, Germar. *Vertical Intermolecular Electronic Communication in Dibenzo[6]phenacene on Ag(111)*. In *JOURNAL OF PHYSICAL CHEMISTRY C*, 2024, vol. 128, no. 33, pp. 14065-14074. ISSN 1932-7447. Dostupné na:

<https://doi.org/10.1021/acs.jpcc.4c03476>, Registrované v: WOS

ADCA915 ŽEMLIČKA, M. - NEILINGER, Pavol - TRGALA, M. - REHÁK, M. - MANCA, Daniel - GRAJCAR, Miroslav - SZABÓ, Pavol - SAMUELY, Peter - GAŽI, Štefan - HÜBNER, U. - VINOKUROV, V. M. - ILICHEV, E.V. Finite quasiparticle lifetime in disordered superconductors. In *Physical Review B*, 2015, vol. 92, no. 22, art. no. 224506. (2014: 3.736 - IF, Q1 - JCR, 0.123 - SJR, Q4 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/PhysRevB.92.224506>

Citácie:

1. [1.1] MADDUMAPATABANDI, Thathsara D. - BUSSOLOTTI, Fabio - FU, Wei - KAWAI, Hiroyo - GOH, Kuan Eng Johnson. *Influence of Substrate Defects on the Electronic Properties of the WS₂ Monolayer/Highly Oriented Pyrolytic Graphite Heterostructure*. In *ACS APPLIED ELECTRONIC MATERIALS*, 2024, vol. 6, no. 11, pp. 7980-7988. Dostupné na:

<https://doi.org/10.1021/acsaelm.4c01330>, Registrované v: WOS

ADCA916 ŽIVOTSKÝ, O. - POSTAVA, K. - KRAUS, L. - JIRÁSKOVÁ, Y. - JURASZEK, J. - TEILLET, J. - BARČOVÁ, K. - ŠVEC, Peter - JANIČKOVIČ, Dušan - PIŠTORA, J. Surface and bulk magnetic properties of as-quenched FeNbB ribbons. In *Journal of Magnetism and Magnetic Materials*, 2008, vol. 320, no. 8, p. 1535-1540. (2007: 1.704 - IF, Q2 - JCR, 0.711 - SJR, Q2 - SJR, karentované - CCC). (2008 - Current Contents, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2008.01.003>

Citácie:

1. [1.1] ZHAO, Chengliang - WANG, Anding - PRAVARTHANA, Dhanapal - ZHU, Fan - JIANG, Kemin - HE, Aina - CHANG, Chuntao - WANG, Xinmin - LIU, Chain-Tsuan. *Oxide dependent textured crystallization on amorphous alloy surface*. In *JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-*

- JMR&T*, 2024, vol. 28, no., pp. 582-590. ISSN 2238-7854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2023.12.036>, Registrované v: WOS
- ADCA917 ŽIVOTSKÝ, O. - TITOV, A. - JIRÁSKOVÁ, Y. - BURŠÍK, J.Y. - KALBÁČOVÁ, J. - ŠVEC, Peter. Full-scale magnetic, microstructural, and physical properties of bilayered CoSiB/FeSiB ribbons. In *Journal of Alloys and Compounds*, 2013, vol. 581, p. 685-692. (2012: 2.390 - IF, Q1 - JCR, 1.246 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2013.07.126>
- Citácie:
- [1.1] ZHAI, Haorui - CHANG, Ying - LI, Xiaodong - ZHU, Wuwei - FANG, Yikun - YU, Shuzhou - HUANG, Qingfang - YU, Xiaojun. Numerical simulation studies of jet rapid solidification technology for magnetic materials: a review. In *INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY*, 2024, vol. 130, no. 5-6, pp. 2635-2647. ISSN 0268-3768. Dostupné na: <https://doi.org/10.1007/s00170-023-12787-y>, Registrované v: WOS
 - [1.2] NYKYRUY, Yulia - MUDRY, Stepan - KULYK, Yuriy - SHTABLAVYI, Ihor. Nanocrystallization Behaviour of Amorphous Co₆₇Fe₄Cr₇Si₈B₁₄ Alloy. In *Defect and Diffusion Forum*, 2024-01-01, 431, pp. 3-11. ISSN 10120386. Dostupné na: <https://doi.org/10.4028/p-O8W6Nq>, Registrované v: SCOPUS

ADCB Vedecké práce v zahraničných karentovaných časopisoch – neimpaktovaných

- ADCB01 SCHNEIDER, Lucas - STEINBRECHER, Manuel - RÓZSA, Levente - BOUAZIZ, Juba - PALOTÁS, Krisztián - DOS SANTOS DIAS, Manuel - LOUNIS, Samir - WIEBE, Jens** - WIESENDANGER, Roland. Magnetism and in-gap states of 3d transition metal atoms on superconducting Re. In *npj Quantum Materials*, 2019, vol. 4, art. no. 42. ISSN 2397-4648. Dostupné na: <https://doi.org/10.1038/s41535-019-0179-7>
- Citácie:
- [1.1] ACEVES RODRIGUEZ, Uriel Allan - GUIMARAES, Filipe Souza Mendes - LOUNIS, Samir. Superconductivity in Nb: Impact of Temperature, Dimensionality and Cooper-Pairing. In *NANOMATERIALS*, 2024, vol. 14, no. 3, art. no. 254. Dostupné na: <https://doi.org/10.3390/nano14030254>, Registrované v: WOS
 - [1.1] KUMAR, Nitin - LAN, Ye-Shun - JANG, Iksu - LIN, Yen-Hui - CHEN, Chia-Ju - LIN, Tzu-Hsuan - JENG, Horng-Tay - CHANG, Po-Yao - HSU, Pin-Jui. Atomic-scale magnetic doping of monolayer stanene by revealing Kondo effect from self-assembled Fe spin entities. In *NPJ QUANTUM MATERIALS*, 2024, vol. 9, no. 1, art. no. 37. Dostupné na: <https://doi.org/10.1038/s41535-024-00647-1>, Registrované v: WOS
 - [1.1] RODRIGUEZ, Uriel A. Aceves - GUIMARAES, Filipe - BRINKER, Sascha - LOUNIS, Samir. Magnetic exchange interactions at the proximity of a superconductor. In *JOURNAL OF PHYSICS-CONDENSED MATTER*, 2024, vol. 36, no. 29, art. no. 295801. ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/1361-648X/ad32de>, Registrované v: WOS
 - [1.1] WANG, Hai - ZHAO, Qin - WANG, Yue - LIN, Junliang - LI, Weimin - WATANABE, Shun - WANG, Xiaobo. An anti-corrosive cellulose nanocrystal/carbon nanotube derived Zn anode interface for dendrite-free aqueous Zn-ion batteries. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*, 2024, vol. 26, no. 35, pp. 23411-23418. ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/d4cp02383h>, Registrované v: WOS

ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

- ADDA01 BAJNOK, Z. - ŠAMAJ, Ladislav. Introduction to integrable many-body systems III. In Acta Physica Slovaca, 2011, vol. 61, no. 2, p. 129-271. (2010: 3.250 - IF, Q1 - JCR, 5.162 - SJR, Q1 - SJR). (2011 - WOS, SCOPUS). ISSN 0323-0465. Dostupné na: <https://doi.org/10.2478/v10155-011-0002-x>
Citácie:
1. [1.2] TORRIELLI, Alessandro. Integrability using the Sine-Gordon and Thirring Duality: An Introductory Course. In Integrability Using the Sine Gordon and Thirring Duality an Introductory Course, 2024-05-17, pp. 1-159. ISBN [9780750358972, 9780750359016]. Dostupné na: <https://doi.org/10.1088/978-0-7503-5899-6>, Registrované v: SCOPUS
- ADDA02 FABER, M. - GREENSITE, J. - OLEJNÍK, Štefan. Evidence for a center vortex origin of the adjoint string tension. In Acta Physica Slovaca, 1999, vol. 49, no. 2, p. 177-184. (1999 - Current Contents). ISSN 0323-0465. Dostupné na internete: <http://www.physics.sk/aps/pub.php?y=1999&pub=aps-99-02>
Citácie:
1. [1.1] MICKLEY, Jackson A. - KAMLEH, Waseem - LEINWEBER, Derek B. Center vortex geometry at finite temperature. In PHYSICAL REVIEW D, 2024, vol. 110, no. 3, art. no. 034516. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.110.034516>, Registrované v: WOS
- ADDA03 GENDIAR, Andrej - NISHINO, T. - DERIAN, René. Estimation of the magnetic critical exponent by tensor product variational approach. In Acta Physica Slovaca : journal for experimental and theoretical physics, 2005, vol. 55, no. 2, p. 141-148. (2004: 0.513 - IF, karentované - CCC). (2005 - Current Contents, SCOPUS). ISSN 0323-0465.
Citácie:
1. [1.1] LUKIN, I. - SOTNIKOV, A. G. Corner transfer matrix renormalization group approach in the zoo of Archimedean lattices. In PHYSICAL REVIEW E, 2024, vol. 109, no. 4, art. no. 045305. ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.109.045305>, Registrované v: WOS
- ADDA04 HAMILTON, J.H. - RAMAYYA, A.V. - HWANG, J.K. - GREIENR, W. - ZHU, S.J. - SANDULESCU, A. - FLORESCCU, A. - KORMICKI, J. - TER-AKOPIAN, G. - OGANESEAN, Y. - DANIEL, A.V. - POPEKO, G.S. - KLIMAN, Ján - MORHÁČ, Miroslav - COLE, J.D. - ARYAEINEJAD, R. - DRIGERT, M.W. - COLLINS, W.E. - MA, W.C. - JONES, E.F. - PEKER, L.K. - GORE, P.M. - DRAFTA, G. - BABU, B.R.S. - WANG, G. - DENG, J.K. Cold spontaneous fission processes of 252Cf and the structure of neutron rich Ba and La nuclei. In Acta Physica Slovaca, 1999, vol. 49, no. 1, p. 31-42. (1999 - Current Contents). ISSN 0323-0465.
Citácie:
1. [1.1] DE ARAUJO, Gabriel Antunes - AGOSTINHO, Ana Livia. Equatorial Guinea: Language Policy, Maintenance and Obsolescence of Official, Ethnic, and Creole Languages in an Ibero-African Context. In REVISTA DE ESTUDOS DA LINGUAGEM, 2024, vol. 32, no. 3, pp. 824-850. ISSN 0104-0588. Dostupné na: <https://doi.org/10.17851/2237-2083.32.3.824-850>, Registrované v: WOS
- ADDA05 HEYDARI, Abolfazl** - SHEIBANI, Hassan** - HRONSKÝ, Viktor - JANIGOVÁ, Ivica - ŠLOUF, Miroslav - ŠIFFALOVÍČ, Peter - CHODÁK, Ivan. Beta-cyclodextrin-epichlorohydrin polymer/graphene oxide nanocomposite: preparation and characterization. In Chemical Papers, 2018, vol. 72, no. 5, p. 1299-1313. (2017: 0.963 - IF, Q4 - JCR, 0.306 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1007/s11696-017-0371-9>

Citácie:

1. [1.1] ARYA, Priyanka - SHARMA, Manishita R. - BENDI, Anjaneyulu - RAGHAV, N. Enhanced curcumin solubility in epichlorohydrin engineered β -Cyclodextrin copolymer for gastric maladies. In JOURNAL OF MOLECULAR LIQUIDS, 2024, vol. 409, no., art. no. 125434. ISSN 0167-7322. Dostupné na: <https://doi.org/10.1016/j.molliq.2024.125434>, Registrované v: WOS

2. [1.1] ROUT, Dibya Ranjan - JENA, Hara Mohan. Efficient adsorption of malachite green dye using novel reduced graphene oxide/ β -cyclodextrin epichlorohydrin composite: batch and fixed-bed studies. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, 2024, vol. 104, no. 2, pp. 456-474. ISSN 0306-7319. Dostupné na: <https://doi.org/10.1080/03067319.2021.2022132>, Registrované v: WOS

ADDA06

HOFBAUEROVÁ, Monika, Benkovičová - VÉGSÖ, Karol - ŠIFFALOVIC, Peter - JERDEL, Matej - MAJKOVÁ, Eva - LUBY, Štefan - ŠATKA, A. Preparation of sterically stabilized gold nanoparticles for plasmonic applications. In Chemical Papers, 2013, vol. 67, no. 9, p. 1225-1230. (2012: 0.879 - IF, Q3 - JCR, 0.301 - SJR, Q2 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-013-0315-y>

Citácie:

1. [1.1] SANTOS-SANTOS, I. J. - ZAMORA-JUSTO, J. A. - VAZQUEZ-MARTINEZ, G. R. - CABRERA-SIERRA, R. - BALDERAS-LOPEZ, J. A. Synthesis of gold nanoparticles coated with glucose oxidase using PVP as passive adsorption linkage. In FRONTIERS IN NANOTECHNOLOGY, 2024, vol. 6, no., art. no. 1419239. Dostupné na: <https://doi.org/10.3389/fnano.2024.1419239>, Registrované v: WOS

2. [1.1] ZHANG, Jun-Tong - TAO, Xin - YANG, Yun-Han - CHEN, Yan - YANG, Ming-Kun - YANG, Ju - YANG, Li - YANG, Li-Juan. Study on Preparation of Silver Nanoparticles Functionalized by Carboxylated Pillar[5]arene and Catalytic Degradation Activity toward Organic Dyes. In CHINESE JOURNAL OF ANALYTICAL CHEMISTRY, 2024, vol. 52, no. 4, pp. 513-522. ISSN 0253-3820. Dostupné na: <https://doi.org/10.19756/j>, Registrované v: WOS

ADDA07

KÚDELA, Stanislav, Jr. - ŠVEC, Peter - BAJANA, Otto - OROVČÍK, Ľubomír - RANACHOWSKI, P. - RANACHOWSKI, Z. Strengthening in dual-phase structured Mg-Li-Zn Alloys. In Kovové materiály, 2016, roč. 54, č. 6, s. 483-489. (2015: 0.365 - IF, Q4 - JCR, 0.199 - SJR, Q3 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0023-432X. Dostupné na: https://doi.org/10.4149/km_2016_6_483

Citácie:

1. [1.1] SU, Hui - WANG, Junsheng - LI, Yingju - XUE, Chengpeng - TIAN, Guangyuan - WANG, Shuo - YANG, Xinghai - LI, Quan - YANG, Zhihao - DOU, Ruifeng. Effective strategies for improving the mechanical stability of aged Mg-Li alloys. In MATERIALS & DESIGN, 2024, vol. 244, no., art. no. 113180. ISSN 0264-1275. Dostupné na: <https://doi.org/10.1016/j.matdes.2024.113180>, Registrované v: WOS

2. [1.2] DUAN, Yifei - WANG, Jianli - YUAN, Man - WANG, Liying - YANG, Zhong - LI, Fei - TIAN, Hao. Research Progress on Long Period Stacking Ordered Phase in Magnesium-Lithium Alloys. In Cailiao Daobao Materials Reports, 2024-01-01, 38, 20, pp. ISSN 1005023X. Dostupné na: <https://doi.org/10.11896/cldb.23020055>, Registrované v: SCOPUS

ADDA08

MARKOŠ, Peter. Numerical analysis of the Anderson localization. In Acta Physica Slovaca, 2006, vol. 56, no. 5, p. 561-685.

Citácie:

1. [1.1] ALEXANDRU, Andrei - HORVATH, Ivan - BHATTACHARYYA, Neel.

- Localized modes in the IR phase of QCD. In PHYSICAL REVIEW D, 2024, vol. 109, no. 1, art. no. 014501. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.109.014501>, Registrované v: WOS*
2. [1.1] GONG, Longyan. Exact minimal effective amounts of three 1D continuous functions and their use in Anderson transitions. In JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, 2024, vol. 57, no. 26, art. no. 265001. ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/ad54a7>, Registrované v: WOS
3. [1.1] HRUZA, Ludwig - JIN, Tony. Fluctuations of quantum coherences in the Anderson model are described by the quantum symmetric simple exclusion process. In PHYSICAL REVIEW B, 2024, vol. 110, no. 22, art. no. L220202. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.L220202>, Registrované v: WOS
4. [1.1] MA, Tiancheng - JIANG, Liwei - ZHENG, Yisong. Anderson localization of the three-dimensional pseudospin-1 system. In PHYSICAL REVIEW B, 2024, vol. 110, no. 18, art. no. 184206. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.184206>, Registrované v: WOS
5. [1.1] NAYAK, Naba P. - SARKAR, Surajit - DAMLE, Kedar - BERA, Soumya. Band-center metal-insulator transition in bond-disordered graphene. In PHYSICAL REVIEW B, 2024, vol. 109, no. 3, art. no. 035109. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.109.035109>, Registrované v: WOS
6. [1.1] SKIPETROV, Sergey E. Higher-order localization landscape theory of Anderson localization. In PHYSICAL REVIEW B, 2024, vol. 110, no. 21, art. no. 214209. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.214209>, Registrované v: WOS
7. [1.1] YAMADA, Hiroaki S. - IKEDA, Kensuke S. Quantum diffusion induced by small quantum chaos. In PHYSICAL REVIEW E, 2024, vol. 109, no. 6, art. no. L062201. ISSN 2470-0045. Dostupné na: <https://doi.org/10.1103/PhysRevE.109.L062201>, Registrované v: WOS

ADDA09 MARTINOVIČ, Lubomír. Light front field theory. an advanced primer. In Acta Physica Slovaca, 2007, vol. 57, no. 3, p. 407-564. Dostupné na: <https://doi.org/10.2478/v10155-010-0085-9>

Citácie:

1. [1.1] BARNICH, Glenn - MAJUMDAR, Sucheta - SPEZIALE, Simone - TAN, Wen-Di. Lessons from discrete light-cone quantization for physics at null infinity: bosons in two dimensions. In JOURNAL OF HIGH ENERGY PHYSICS, 2024, vol., no. 5, art. no. 326. ISSN 1029-8479. Dostupné na: [https://doi.org/10.1007/JHEP05\(2024\)326](https://doi.org/10.1007/JHEP05(2024)326), Registrované v: WOS

ADDA10 NOVÁK, Ivan - ŠAUŠA, Ondrej - MATĚKO, Igor - BILGIN, Esra Simsek - BEREK, Dušan**. Microporous carbon fibers prepared by carbonization of cellulose as carriers of particles of active substances. In Chemical Papers, 2020, vol. 74, no. 4, p. 1359-1365. (2019: 1.680 - IF, Q3 - JCR, 0.331 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1007/s11696-019-00972-x>

Citácie:

1. [1.2] AMEER, Kashif - MURTAZA, Mian Anjum - ZAINAB, Saadia - KIM, Young Min - ARSHAD, Muhammad Umair - PASHA, Imran - ABID, Muhammad - PARK, Mi Kyung. Polysaccharide-based films: Carriers of active substances and controlled release characteristics. In Polysaccharide Based Films for Food Packaging Fundamentals Properties and Applications, 2024-05-23, pp. 379-400. ISBN [9789819948970, 9789819948987]. Dostupné na:

- https://doi.org/10.1007/978-981-99-4898-7_15, *Registrované v: SCOPUS*
- ADDA11 PIVOLUSKA, M. - PLESCH, Martin. Device independent random number generation. In Acta Physica Slovaca, 2014, vol. 64, no. 6, p. 601-665. (2013: 2.000 - IF, Q1 - JCR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0323-0465. Dostupné na: <https://doi.org/10.2478/apsrt-2014-0006>
- Citácie:
- [1.1] JOZWIAK, Piotr - JACAK, Janusz E. - JACAK, Witold A. New concepts and construction of quantum random number generators. In QUANTUM INFORMATION PROCESSING, 2024, vol. 23, no. 4, art. no. 132. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04335-8>, *Registrované v: WOS*
 - [1.1] SASMAL, Souradeep - RAI, Ashutosh - GANGOPADHYAY, Sayan - HOME, Dipankar - SINHA, Urbasi. Revealing incommensurability between device-independent randomness, nonlocality, and entanglement using Hardy and Hardy-type relations. In PHYSICA SCRIPTA, 2024, vol. 99, no. 3, art. no. 035012. ISSN 0031-8949. Dostupné na: <https://doi.org/10.1088/1402-4896/ad24a5>, *Registrované v: WOS*
- ADDA12 REITZNER, Daniel - NAGAJ, Daniel - BUŽEK, Vladimír. Quantum walks. In Acta Physica Slovaca, 2011, vol. 61, no. 6, p. 603-725. (2010: 3.250 - IF, Q1 - JCR, 5.162 - SJR, Q1 - SJR). (2011 - WOS, SCOPUS). ISSN 0323-0465. Dostupné na: <https://doi.org/10.2478/v10155-011-0006-6>
- Citácie:
- [1.1] BALACHANDRAN, A. P. - KUNDALPADY, Anjali - PADMANABHAN, Pramod - SINHA, Akash. Disorder-free localization in continuous-time quantum walks: Role of symmetries. In PHYSICAL REVIEW A, 2024, vol. 109, no. 1, art. no. 012205. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.012205>, *Registrované v: WOS*
 - [1.1] GOPALAKRISHNAN, Dhruv - MOSCA, Michele. Pragmatic Obfuscation of Factoring in Hamiltonian Simulation and Ground State Estimation. In 2024 IEEE 6TH INTERNATIONAL CONFERENCE ON TRUST, PRIVACY AND SECURITY IN INTELLIGENT SYSTEMS, AND APPLICATIONS, TPS-ISA : 6th International Conference on Trust Privacy and Security in Intelligent Systems and Applications, 2024, vol., no., pp. 471-480. Dostupné na: <https://doi.org/10.1109/TPS-ISA62245.2024.00063>, *Registrované v: WOS*
- ADDA13 SEDLÁK, Michal. Quantum theory of unambiguous measurements. In Acta Physica Slovaca, 2009, vol. 59, no. 6, p. 653-792. (2008: 0.724 - IF, Q3 - JCR, 0.499 - SJR, Q2 - SJR). (2009 - WOS, SCOPUS). ISSN 0323-0465. Dostupné na: <https://doi.org/10.2478/v10155-010-0099-3>
- Citácie:
- [1.1] CAI, Weizhou - ZHANG, Jing-Ning - HUA, Ziyue - WANG, Weiting - PAN, Xiaoxuan - LIU, Xinyu - MA, Yuwei - HU, Ling - MU, Xianghao - WANG, Haiyan - SONG, Yipu - ZOU, Chang-Ling - SUN, Luyan. Unambiguous discrimination of general quantum operations. In SCIENCE ADVANCES, 2024, vol. 10, no. 46, art. no. eadq2529. ISSN 2375-2548. Dostupné na: <https://doi.org/10.1126/sciadv.adq2529>, *Registrované v: WOS*
 - [1.1] REITZNER, Daniel - BOUDA, Jan. General measurements with limited resources and their application to quantum unambiguous state discrimination. In QUANTUM INFORMATION PROCESSING, 2024, vol. 23, no. 7, art. no. 268. ISSN 1570-0755. Dostupné na: <https://doi.org/10.1007/s11128-024-04468-w>, *Registrované v: WOS*
- ADDA14 VRŠANSKÝ, Peter** - ARISTOV, Daniil - HAIN, Miroslav - KÚDELOVÁ, Tatiana - KÚDELA, Matúš - METSCHER, Brian - PALKOVÁ, Helena -

KÁČEROVÁ, Júlia - HINKELMAN, Jan. Longest-surviving Carboniferous-family insect found in Mesozoic amber. In *Biologia*, 2023, vol. 78, no. 6, p. 1611-1626. (2022: 1.5 - IF, Q4 - JCR, 0.34 - SJR, Q3 - SJR). ISSN 0006-3088. Dostupné na: <https://doi.org/10.1007/s11756-022-01192-7>

Citácie:

1. [1.1] SENDI, H. *Nigropterix cummingi* sp. n., an umenocoleid (Insecta: Dictyoptera) from mid-Cretaceous northern Myanmar amber. In *ZOOTAXA*. ISSN 1175-5326, MAR 15 2024, vol. 5424, no. 4, p. 476-482. Dostupné na: <https://doi.org/10.11646/zootaxa.5424.4.6>, Registrované v: WOS
2. [1.1] SENDI, H. *Vitisma coriacea* sp.n. (Insecta: Dictyoptera) from the mid-Cretaceous in northern Myanmar, first record of the genus in amber. In *ZOOTAXA*. ISSN 1175-5326, APR 12 2024, vol. 5437, no. 2, p. 294-300. Dostupné na: <https://doi.org/10.11646/zootaxa.5437.2.8>, Registrované v: WOS
3. [1.1] ZHANG, J.M. - CHEN, L. - LUO, C.H. Cockroach *Clypeblattula panda* gen. et sp. n. (Blattaria: Blattulidae) from the Lower Cretaceous Laiyang Formation of China. In *CRETACEOUS RESEARCH*. ISSN 0195-6671, AUG 2024, vol. 160. Dostupné na: <https://doi.org/10.1016/j.cretres.2024.105907>, Registrované v: WOS

ADDA15

VRŠANSKÝ, Peter** - ŠMÍDOVÁ, Lucia - SENDI, Hemen - BARNA, Peter - MÜLLER, Patrick - ELLENBERGER, Sieghard - WU, H. - REN, Xiaoyin - LEI, Xiaojie - AZAR, Dany - ŠURKA, Juraj - SU, T. - DENG, Weiyudong - SHEN, Xianhui - LV, Jun - BAO, Tong - BECHLY, Günter. Parasitic cockroaches indicate complex states of earliest proved ants. In *Biologia*, 2019, vol. 74, no. 1, p. 65-89. (2018: 0.728 - IF, Q4 - JCR, 0.298 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0006-3088. Dostupné na: <https://doi.org/10.2478/s11756-018-0146-y>

Citácie:

1. [1.1] HINKELMAN, Jan. Origins and diversity of spot-like aposematic and disruptive colorations among cockroaches. In *BIOLOGIA*, 2023, vol. 78, no. 6, pp. 1659-1677. ISSN 0006-3088. Dostupné na: <https://doi.org/10.1007/s11756-022-01163-y>, Registrované v: WOS
2. [1.1] KACEROVA, Julia - AZAR, Dany. Mesozoic cockroaches (Insecta: Mesoblattinidae, Blattulidae) from shale and dysodile of Lebanon. In *BIOLOGIA*, 2023, vol. 78, no. 6, pp. 1543-1550. ISSN 0006-3088. Dostupné na: <https://doi.org/10.1007/s11756-022-01209-1>, Registrované v: WOS
3. [1.1] MAJTANIK, Matej - KOTULOVA, Julia. Insect J3-K1 assemblage from Tasgorosay in Kazakhstan was dominated by cockroaches. In *BIOLOGIA*, 2023, vol. 78, no. 6, pp. 1565-1584. ISSN 0006-3088. Dostupné na: <https://doi.org/10.1007/s11756-022-01307-0>, Registrované v: WOS

ADEA Vedecké práce v ostatných zahraničných časopisoch – impaktovaných

ADEA01

KOVÁČ, Jozef - ŠVEC, Peter - ŠKORVÁNEK, Ivan. Magnetocaloric effect in amorphous and nanocrystalline FeCrNbBCu alloys. In *Reviews on Advanced Materials Science*, 2008, vol. 18, no. 6, p. 533-535. (2007: 1.122 - IF, Q2 - JCR, 0.722 - SJR, Q1 - SJR). (2008 - WOS, SCOPUS). ISSN 1606-5131.

Citácie:

1. [1.1] VINOD, Anjana - BABU, D. Arvindha - WUPPULLURI, Madhuri. A Short Review on the Evolution of Magnetocaloric La(Fe,Si)₁₃ and Its Fabrication through Melt Spinning. In *ACS OMEGA*, 2024, vol. 9, no. 10, pp. 11110-11128. ISSN 2470-1343. Dostupné na: <https://doi.org/10.1021/acsomega.3c08622>, Registrované v: WOS

- ADEA02 MARKOŠ, Peter - SOUKOULIS, C.M. Transmission properties and effective electromagnetic parameters of double negative metamaterials. In Optics Express, 2003, vol. 11, no. 7, p. 649-661. Dostupné na: <https://doi.org/10.1364/OE.11.000649>
- Citácie:
1. [1.1] KANAUIA, Binod Kumar - CHAURASIA, Praveen. Design and mathematical modeling of DNG metamaterial having six-band capabilities with high effective medium ratio. In JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, 2024, vol. 38, no. 6, pp. 704-723. ISSN 0920-5071. Dostupné na: <https://doi.org/10.1080/09205071.2024.2324842>, Registrované v: WOS
 2. [1.1] KORAL, Can - BAGCI, Fulya. A Hybrid Design for Frequency-Independent Extreme Birefringence Combining Metamaterials with the Form Birefringence Concept. In PHOTONICS, 2024, vol. 11, no. 9, art. no. 860. Dostupné na: <https://doi.org/10.3390/photonics11090860>, Registrované v: WOS
 3. [1.1] NOBRE, Francisco D. M. - DE SOUSA, Thayana M. L. - CAMPOS, Antonio L. P. S. - DA SILVA, Mauricio W. B. Multifunctional Metasurface with PIN Diode Application Featuring Absorption, Polarization Conversion, and Transmission Functions. In MICROMACHINES, 2024, vol. 15, no. 11, art. no. 1344. Dostupné na: <https://doi.org/10.3390/mi15111344>, Registrované v: WOS
 4. [1.1] PRABHA, R. - PANDIAN, S. Chenthur. Design and analysis of metamaterial inspired multiband, high gain superstrate patch antenna for military applications, WiMAX, and maritime mobile services. In OPTICAL AND QUANTUM ELECTRONICS, 2024, vol. 56, no. 2, art. no. 234. ISSN 0306-8919. Dostupné na: <https://doi.org/10.1007/s11082-023-05962-8>, Registrované v: WOS
 5. [1.1] YAN, Liuliu - WANG, Xuan - LI, Wanchong - YIN, Sheng - JIA, Dongmei - ZOU, Rurong - WANG, Yuansheng - HUANG, Wei - YIN, Zhuo - LI, Yongqing. High-temperature resistance and broadband radar absorbers based on SiC nanowires coatings with titanium diboride metasurfaces. In APPLIED SURFACE SCIENCE, 2024, vol. 653, no., art. no. 159383. ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2024.159383>, Registrované v: WOS

ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

- ADEB01 DUHAJ, Pavol - IVAN, Jozef - MAKOVICKÝ, Emil. Sigma-phase precipitation in austenitic steels. In Journal of the Iron and Steel Institute, 1968, vol. 206, p. 1245-1251. ISSN 0021-1567.
- Citácie:
1. [1.1] RANJITH, R. - RAO, G. Sudarshan - MANWATKAR, Sushant K. - GUPTA, Rohit Kumar - MURTY, S. V. S. Narayana - PRABHAKARAN, K. Effect of Heat Treatment on Mechanical Properties of AISI 202 Steel at Room Temperature and 77 K. In JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, 2024, vol. 33, no. 11, pp. 5604-5620. ISSN 1059-9495. Dostupné na: <https://doi.org/10.1007/s11665-023-08332-3>, Registrované v: WOS
- ADEB02 GMUCOVÁ, Katarína - MORVOVÁ, M. - HAVRÁNEK, E. - KLIMAN, Ján - KOŠINÁR, I. - KUNECOVÁ, D. - MALAKHOV, A.I. - ANISIMOV, Yu.S. - MORVA, I. - SIVÁČEK, I. - SÝKOROVÁ, M. - ŠATKA, A. Carbonized waste for the cut-down of environmental pollution with heavy metals. In Physics of Particles and Nuclei Letters, 2011, vol. 8, no. 4, p. 405-411. (2010: 0.201 - SJR, Q3 - SJR). (2011 - SCOPUS). ISSN 1547-4771. Dostupné na: <https://doi.org/10.1134/S1547477111040091>
- Citácie:
1. [1.1] PEREIRA, Leticia - CASTILLO, Ventura - CALERO, Monica -

- BLAZQUEZ, Gabriel - SOLIS, Rafael R. - MARTIN-LARA, M. Angeles. Insights into using plastic waste to produce activated carbons for wastewater treatment applications: A review. In JOURNAL OF WATER PROCESS ENGINEERING, 2024, vol. 62, no., art. no. 105386. ISSN 2214-7144. Dostupné na: <https://doi.org/10.1016/j.jwpe.2024.105386>, Registrované v: WOS*
- ADEB03 ILLEKOVÁ, Emília - ŠVEC, Peter - JANIČKOVIČ, Dušan. Influence of the processing on the ordering process in the Al-Ti binary system with composition close to Al₃Ti. In Journal of Physics: Conference Series, 2009, vol. 144, art. no. 012111. Dostupné na: <https://doi.org/10.1088/1742-6596/144/1/012111>
Citácie:
1. [1.1] COHEN, Sapir - ZENOU, Victor Y. - IFERGANE, Sigalit - GRINBERG, Eyal - BROSH, Eli. Phase Equilibria and Melting of Aluminum-Rich Al-Nd-Ti Alloys. In METALS AND MATERIALS INTERNATIONAL, 2024, vol. 30, no. 3, pp. 629-645. ISSN 1598-9623. Dostupné na: <https://doi.org/10.1007/s12540-023-01534-3>, Registrované v: WOS

ADMA Vedecké práce v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADMA01 BĚTÁK, Emil - DOBEŠ, J. Finite depth of nuclear-potential well in exciton model of preequilibrium decay. In Zeitschrift für Physik A. Hadrons and nuclei, 1976, vol. 279, no. 3, p. 319-324. ISSN 0939-7922. Dostupné na: <https://doi.org/10.1007/BF01408305>
Citácie:
1. [1.1] NAKADA, Hibiki - NAKAYAMA, Shinsuke - YOSHIDA, Kazuki - WATANABE, Yukinobu - OGATA, Kazuyuki. Difference in peripherality of the inclusive (p, p' ;x) and (d, d' ;x) reactions and its implications for a phenomenological reaction model. In PHYSICAL REVIEW C, 2024, vol. 110, no. 1, art. no. 014616. ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.014616>, Registrované v: WOS
2. [1.2] JASIM, Mahdi Hadi - ABBAS, Muna Musa - JAWAD AL-KHALISSI, Mohammed M. Proton Induced Nuclear Excitation Functions of ¹⁰⁰Mo(p,2n)^{99m}Tc Reaction used as a Tracer in Nuclear Medicine. In Iraqi Journal of Science, 2024-01-01, 65, 8, pp. 4732-4739. ISSN 00672904. Dostupné na: [https://doi.org/10.24996/ij.s.2024.65.8\(SI\).5](https://doi.org/10.24996/ij.s.2024.65.8(SI).5), Registrované v: SCOPUS
- ADMA02 BUGÁROVÁ, Nikola** - ŠPITÁLSKY, Zdenko - MIČUŠÍK, Matej - BODIK, Michal - ŠIFFALOVICH, Peter - KONERACKÁ, Martina - ZÁVIŠOVÁ, Vlasta - KUBOVČÍKOVÁ, Martina - KAJANOVÁ, Ivana - ZAŤOVIČOVÁ, Miriam - PASTOREKOVÁ, Silvia - ŠLOUF, Miroslav - MAJKOVÁ, Eva - OMASTOVÁ, Mária**. A multifunctional graphene oxide platform for targeting cancer. In Cancers, 2019, vol. 11, no. 6, art. no. 753, [19] p. (2018: 6.162 - IF, Q1 - JCR, 2.142 - SJR, Q1 - SJR). ISSN 2072-6694. Dostupné na: <https://doi.org/10.3390/cancers11060753>
Citácie:
1. [1.1] MAI, S.S. - INKIELEWICZ-STEPNIAK, I. Graphene Oxide Nanoparticles and Organoids: A Prospective Advanced Model for Pancreatic Cancer Research. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1661-6596, JAN 2024, vol. 25, no. 2. Dostupné na: <https://doi.org/10.3390/ijms25021066>, Registrované v: WOS
- ADMA03 BUGÁROVÁ, Nikola** - HVIZDOŠOVÁ, Adriana, Annušová - BODIK, Michal - ŠIFFALOVICH, Peter - LABUDOVÁ, Martina - KAJANOVÁ, Ivana - ZAŤOVIČOVÁ, Miriam - PASTOREKOVÁ, Silvia - MAJKOVÁ, Eva - OMASTOVÁ, Mária**. Molecular targeting of bioconjugated graphene oxide

nanocarriers revealed at a cellular level using label-free Raman imaging. In Nanomedicine : nanotechnology, biology and medicine, 2020, vol. 30, art. no. 102280. (2019: 5.182 - IF, Q1 - JCR, 1.372 - SJR, Q1 - SJR). ISSN 1549-9634. Dostupné na: <https://doi.org/10.1016/j.nano.2020.102280>

Citácie:

1. [1.1] GOSTAVICEANU, Andreea - GAVRILAS, Simona - COPOLOVICI, Lucian - COPOLOVICI, Dana Maria. Graphene-Oxide Peptide-Containing Materials for Biomedical Applications. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2024, vol. 25, no. 18, art. no. 10174. ISSN 1661-6596. Dostupné na: <https://doi.org/10.3390/ijms251810174>, Registrované v: WOS

2. [1.1] RONCA, Roberto - SUPURAN, Claudiu T. Carbonic anhydrase IX: An atypical target for innovative therapies in cancer. In BIOCHIMICA ET BIOPHYSICA ACTA-REVIEWS ON CANCER, 2024, vol. 1879, no. 4, art. no. 189120. ISSN 0304-419X. Dostupné na:

<https://doi.org/10.1016/j.bbcan.2024.189120>, Registrované v: WOS

ADMA04

BUŽEK, Vladimír - QUANG, Tran. Squeezing of Spectral Components in the Jaynes-Cummings Model. In Journal of Modern Optics, 1991, vol. 38, no. 8, p. 1559-1566. ISSN 0950-0340. Dostupné na:

<https://doi.org/10.1080/09500349114551721>

Citácie:

1. [1.1] MIRZAEI, S. - CHENAGHLOU, A. - ALISHAMSI, Y. Quantum Features of the Nonlinear Dissipative Cavity Interacting with a Two-Level Atom under the Influence of Stark Shift. In INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, 2024, vol. 63, no. 3, art. no. 62. ISSN 0020-7748. Dostupné na:

<https://doi.org/10.1007/s10773-024-05597-9>, Registrované v: WOS

ADMA05

DIXIT, Aparna - AHMED, Inas A. - ABRAHAM, Jisha Annie - EL-BAHY, Zeinhom M. - MANZOOR, Mumtaz - DAR, Sajad Ahmad - SHARMA, Ramesh.

Optoelectronic and thermoelectric properties of spinel chalcogenides HgLa₂X₄ (X= S and Se): A first-principles study. In Journal of rare earths, 2024, vol. 42, no. 10, p. 1927-1936. (2023: 5.2 - IF, Q1 - JCR, 0.881 - SJR, Q1 - SJR). ISSN 1002-0721. Dostupné na: <https://doi.org/10.1016/j.jre.2023.11.014>

Citácie:

1. [1.1] HEDHILI, Fekhra - HAKAMI, Jabir - ALBAQAWI, Hissah Saedoon - ALAHMAD, Waed - MAHMOOD, Q. Study of electronic, mechanical, thermodynamic, optical, and thermoelectric properties of CdLa₂X₄ (X = S, Se, Te) chalcogenides for solar cells and energy applications. In PHYSICA SCRIPTA, 2024, vol. 99, no. 4, art. no. 045961. ISSN 0031-8949. Dostupné na:

<https://doi.org/10.1088/1402-4896/ad328e>, Registrované v: WOS

2. [1.1] MUSTAFA, Ghulam M. - YOUNAS, Bisma - SABA, Sadaf - NOOR, N. A. - SAEED, Yasir - MUMTAZ, Sohail - AL-SADOON, Mohammad K. Half metallic ferromagnetic and transport behavior of rare earth based CdGd₂(S/Se)₄ spinels. In MATERIALS TODAY COMMUNICATIONS, 2024, vol. 40, no., art. no. 109567. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2024.109567>, Registrované v:

WOS

3. [1.1] NAEEM, Maha - MUHAMMAD, Nawaz - MURTAZA, G. - RAZA, Hafiz Hamid - ALI, Hafiz Irfan. First principles investigations of chalcogenides perovskites for optoelectronic applications. In JOURNAL OF MATERIALS RESEARCH, 2024, vol. 39, no. 20, pp. 2872-2888. ISSN 0884-2914. Dostupné na:

<https://doi.org/10.1557/s43578-024-01432-3>, Registrované v: WOS

ADMA06

DOBES, J. - BĚTÁK, Emil. 2-component exciton model. In Zeitschrift für Physik A. Hadrons and nuclei, 1983, vol. 310, no. 4, p. 329-338. ISSN 0939-7922.

Citácie:

1. [1.2] JASIM, Mahdi Hadi - ABBAS, Muna Musa - JAWAD AL-KHALISSI, Mohammed M. Proton Induced Nuclear Excitation Functions of $^{100}\text{Mo}(p,2n)^{99\text{m}}\text{Tc}$ Reaction used as a Tracer in Nuclear Medicine. In *Iraqi Journal of Science*, 2024-01-01, 65, 8, pp. 4732-4739. ISSN 00672904. Dostupné na: [https://doi.org/10.24996/ij.s.2024.65.8\(SI\).5](https://doi.org/10.24996/ij.s.2024.65.8(SI).5), Registrované v: SCOPUS
2. [1.2] NAKADA, Hibiki - NAKAYAMA, Shinsuke - YOSHIDA, Kazuki - WATANABE, Yukinobu - OGATA, Kazuyuki. Difference in peripherality of the inclusive $(p,p'x)$ and $(d,d'x)$ reactions and its implications for a phenomenological reaction model. In *Physical Review C*, 2024-07-01, 110, 1, pp. ISSN 24699985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.014616>, Registrované v: SCOPUS

ADMA07 HANIC, F. - HARTMANOVÁ, Mária - KNAB, G.G. - URUSOVSKAYA, A.A. - BAGDASAROV, K.S. Real structure of undoped Y_2O_3 single-crystals. In *Acta Crystallographica Section B-Structural Science Crystal Engineering and Materials*, 1984, vol. 40, no. 2, p. 76-82. ISSN 2052-5206. Dostupné na: <https://doi.org/10.1107/S0108768184001774>

Citácie:

1. [1.1] ALIMOV, Olimkhon - DOROSHENKO, Maxim - DOBRETSOVA, Elena - PIERPOINT, Ksenia - RUSANOV, Sergey - KASHIN, Vitaly - TSVETKOV, Vladimir. Selective laser spectroscopy of yttrium scandate doped with ytterbium ion. In *OPTICAL MATERIALS*, 2024, vol. 153, no., art. no. 115570. ISSN 0925-3467. Dostupné na: <https://doi.org/10.1016/j.optmat.2024.115570>, Registrované v: WOS
2. [1.1] CAVALCANTI, Vinicius Oliveira - ROQUES, Jerome - HORLAIT, Denis - GILABERT, Eric - RIAANT, Guillaume - COLOMBEAU-BEDOS, Thomas - CLAVIER, Nicolas - GENTILS, Aurelie. Study of helium diffusion in yttria: A multiscale approach based on the density functional theory and kinetic Monte Carlo, with transmission electron microscopy and thermo-desorption spectroscopy. In *JOURNAL OF NUCLEAR MATERIALS*, 2024, vol. 597, no., art. no. 155156. ISSN 0022-3115. Dostupné na: <https://doi.org/10.1016/j.jnucmat.2024.155156>, Registrované v: WOS
3. [1.1] EREMEEV, Kirill - LOIKO, Pavel - BALABANOV, Stanislav - EVSTROPOV, Timofey - PERMIN, Dmitry - POSTNIKOVA, Olga - PETROV, Valentin - CAMY, Patrice - BRAUD, Alain. Spectroscopy of thulium ions in solid-solution sesquioxide laser ceramics: Inhomogeneous spectral line broadening, crystal-field engineering and C_3i sites. In *OPTICAL MATERIALS*, 2024, vol. 148, no., art. no. 114791. ISSN 0925-3467. Dostupné na: <https://doi.org/10.1016/j.optmat.2023.114791>, Registrované v: WOS
4. [1.1] MACRELLI, Andrea - LAMPERTI, Alessio - DELLASEGA, David - RUSSO, Valeria - CASARI, Carlo S. - LI BASSI, Andrea. Probing the Annealing-Induced Phase Evolution of Nanostructured Manganese Oxide Thin Films by X-Ray Diffraction. In *CRYSTAL GROWTH & DESIGN*, 2024, vol. 24, no. 3, pp. 1254-1267. ISSN 1528-7483. Dostupné na: <https://doi.org/10.1021/acs.cgd.3c01241>, Registrované v: WOS
5. [1.1] MAKSIMOV, R. N. - TOCI, G. - PIRRI, A. - SHITOV, V. A. - SANI, E. - SANTONOCITO, A. - PATRIZI, B. - BECUCCI, M. - VANNINI, M. - OSIPOV, V. V. Structural, spectroscopic and laser properties of transparent $\text{Tm}:\text{YScO}_3$ ceramic based on gas-phase synthesized nanoparticles. In *OPTICAL MATERIALS*, 2024, vol. 151, no., art. no. 115309. ISSN 0925-3467. Dostupné na: <https://doi.org/10.1016/j.optmat.2024.115309>, Registrované v: WOS
6. [1.1] MOYERS, Aidan H. - BECKER, Michael F. - KOVAR, Desiderio. A strain density function to analyze particle size effects during high velocity impacts of

yttria. In *JOURNAL OF THE AMERICAN CERAMIC SOCIETY*, 2024, vol. 107, no. 6, pp. 3925-3944. ISSN 0002-7820. Dostupné na: <https://doi.org/10.1111/jace.19708>, Registrované v: WOS

7. [1.1] PIZ, Mateusz - FILIPEK, Elzbieta - KWIATKOWSKI, Kamil - DULIAN, Piotr - BAK, Wojciech - WROBEL, Rafal J. New Ceramic Material $Y_2-xV_xO_{3+x}$ Mechanochemical Synthesis and Some Physicochemical Properties. In *CHEMNANOMAT*, 2024, vol. 10, no. 11. ISSN 2199-692X. Dostupné na: <https://doi.org/10.1002/cnma.202400337>, Registrované v: WOS

8. [1.1] RUIZ-MOLINA, M. A. - SUAREZ-CANMAN, G. - CABRERA-GERMAN, D. - BERMAN-MENDOZA, D. - HU, H. - SOTELO-LERMA, M. Chemical characteristics via quantitative photoelectron analysis of chemical-solution-deposited yttrium oxide thin films for metal-insulator-metal capacitor applications. In *THIN SOLID FILMS*, 2024, vol. 793, no., art. no. 140269. ISSN 0040-6090. Dostupné na: <https://doi.org/10.1016/j.tsf.2024.140269>, Registrované v: WOS

9. [1.1] ZHAO, Yanfeng - CORMACK, Alastair N. - WU, Yiquan. Defect Structures of Rare Earth-Doped Lutetium Oxide and Impacts of Li Co-Dopant. In *CRYSTALS*, 2024, vol. 14, no. 5, art. no. 413. Dostupné na: <https://doi.org/10.3390/cryst14050413>, Registrované v: WOS

ADMA08 HARTMANOVÁ, Mária - KUBEL, F. - BURŠKOVÁ, V. - JERSEL, Matej - NAVRÁTIL, V. - LOMONOVA, E.E. - NAVRÁTIL, K. - KUNDRAČIK, F. - KOSTI, I. Effect of composition changes on properties and defect structure of crystalline Sm-doped ZrO_2 . In *Russian Journal of Electrochemistry*, 2007, vol. 43, no. 4, p. 381-389. Dostupné na: <https://doi.org/10.1134/S1023193507040040>

Citácie:

1. [1.1] XIANG, Pan - ISMAIL, Sara Adeeba - GUO, Shihang - JIANG, Lulu - HAN, Donglin. Fluorite-based proton conducting oxides: structures, materials and applications. In *MATERIALS ADVANCES*, 2024, vol. 5, no. 1. Dostupné na: <https://doi.org/10.1039/d3ma00367a>, Registrované v: WOS

ADMA09 HELD, Vladimír** - MRKÝVKOVÁ, Nad'a, Tesařová - HALAHOVETS, Yuriy - NÁDAŽDY, Peter - VÉGSÖ, Karol - VLK, Aleš - LEDINSKÝ, Martin - JERSEL, Matej - BERNSTORFF, Sigrid - KECKES, Jozef - SCHREIBER, Frank - ŠIFFALOVÍČ, Peter. Evolution of Defects, Morphology, and Strain during FAMAPbI₃ Perovskite Vacuum Deposition: Insights from In Situ Photoluminescence and X ray Scattering. In *ACS Applied Materials & Interfaces*, 2024, vol. 16, no. 27, pp. 35723-35731. (2023: 8.3 - IF, Q1 - JCR, 2.058 - SJR, Q1 - SJR). ISSN 1944-8244. Dostupné na: <https://doi.org/10.1021/acsami.4c04095>

Citácie:

1. [1.1] WANG, Yueyan - ZHANG, Yongqi - SHI, Zijian - LIU, Ruilin - LI, Luzhen - ZHANG, Lisheng - WANG, Peijie. Performance analysis of CsFAMAPbIBr perovskite cells compared with MAPbI₃ perovskite cells. In *CHEMICAL PHYSICS LETTERS*, 2024, vol. 857, no., art. no. 141724. ISSN 0009-2614. Dostupné na: <https://doi.org/10.1016/j.cplett.2024.141724>, Registrované v: WOS

ADMA10 HUANG, Yongda - MANZOOR, Mumtaz - BRNDIAR, Ján - MILIVOJEVIĆ, Marko - ŠTICH, Ivan**. Straintronics with single-layer MoS₂: A quantum Monte Carlo study. In *Physical Review Research*, 2024, vol. 6, no. 1, art. no. 013007. (2023: 3.5 - IF, Q1 - JCR, 1.689 - SJR, Q1 - SJR). ISSN 2643-1564. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.013007>

Citácie:

1. [1.1] DEFO, Rodrick Kuate - RICHARDSON, Steven L. Investigating the initialization and readout of relative populations of NV⁺SUP-/SUP and NV⁺SUP₀/SUP defects in diamond. In *JOURNAL OF APPLIED PHYSICS*, 2024,

vol. 135, no. 24, pp. ISSN 0021-8979. Dostupné na:

<https://doi.org/10.1063/5.0205476>, Registrované v: WOS

2. [1.1] SHIN, Hyeondeok - GASPERICH, Kevin - ROJAS, Tomas - NGO, Anh T. - KROGEL, Jaron T. - BENALI, Anouar. Systematic Improvement of Quantum Monte Carlo Calculations in Transition Metal Oxides: sCI-Driven Wavefunction Optimization for Reliable Band Gap Prediction. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION, 2024, vol., no., pp. ISSN 1549-9618. Dostupné na: <https://doi.org/10.1021/acs.jctc.4c00335>, Registrované v: WOS

ADMA11

HUANG, Yongda - AHMAD, Faizan - MANZOOR, Mumtaz - BRNDIAR, Ján - MITAS, L. - FABIAN, Jaroslav - ŠTICH, Ivan. Colossal band gap response of single-layer phosphorene to strain predicted by quantum Monte Carlo. In Physical Review Research, 2023, vol. 5, no. 3, art. no. 033223. (2022: 4.2 - IF, 1.824 - SJR, Q1 - SJR). ISSN 2643-1564. Dostupné na:

<https://doi.org/10.1103/PhysRevResearch.5.033223>

Citácie:

1. [1.1] MILIVOJEVIC, Marko - KURPAS, Marcin - RASSEKH, Maedeh - LEGUT, Dominik - GMITRA, Martin. Hydrostatic pressure control of the spin-orbit proximity effect, spin relaxation, and thermoelectricity in a phosphorene-WSesub2/sub heterostructure. In PHYSICAL REVIEW B, 2024, vol. 110, no. 8, pp. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.085306>, Registrované v: WOS

2. [1.1] PERALTA, Mayra - FREIRE, Dennis A. - GONZALEZ-HERNANDEZ, Rafael - MIRELES, Francisco. Spin-orbit coupling effects in single-layer phosphorene. In PHYSICAL REVIEW B, 2024, vol. 110, no. 8, art. no. 085404. ISSN 2469-9950. Dostupné na: <https://doi.org/10.1103/PhysRevB.110.085404>, Registrované v: WOS

ADMA12

CHAUDHARY, Jyoti - THAKUR, Sourbh** - SHARMA, Minaxi - GUPTA, Vijai Kumar** - THAKUR, Vijay Kumar**. Development of Biodegradable Agar-Agar/Gelatin-Based Superabsorbent Hydrogel as an Efficient Moisture-Retaining Agent. In Biomolecules : Open Access Journal, 2020, vol. 10, no. 6, art. no. 939. (2019: 4.082 - IF, Q2 - JCR, 1.614 - SJR, Q1 - SJR). ISSN 2218-273X. Dostupné na: <https://doi.org/10.3390/biom10060939>

Citácie:

1. [1.1] AIZAZ, Aqsa - NAWAZ, Muhammad Haseeb - SHAFIQUE, Huzaiifa - REHMAN, Muhammad Habeeb Ur - KHAN, Muhammad Ehtisham - ABBAS, Mohamed - VAYALPURAYIL, Thafasalijyas - REHMAN, Muhammad Atiq Ur. Synthesis and characterization of aloe vera and hyaluronic acid-infused agar-agar/ gelatin-based biopolymeric gel for potential skincare applications. In JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, 2024, vol. 100, no., art. no. 106017. ISSN 1773-2247. Dostupné na:

<https://doi.org/10.1016/j.jddst.2024.106017>, Registrované v: WOS

2. [1.1] ALI, Khizra - ASAD, Zahra - AGBNA, Gamareldawla H. D. - SAUD, Asif - KHAN, Areeb - ZAIDI, Syed Javaid. Progress and Innovations in Hydrogels for Sustainable Agriculture. In AGRONOMY-BASEL, 2024, vol. 14, no. 12, art. no. 2815. Dostupné na: <https://doi.org/10.3390/agronomy14122815>, Registrované v: WOS

3. [1.1] CALBAS, Berke - KEOBOUNNAM, Ashley N. - KORBAN, Christopher - DORATAN, Ainsley Jade - JEAN, Tiffany - SHARMA, Aryan Yashvardhan - WRIGHT, Thaiesha A. Protein-polymer bioconjugation, immobilization, and encapsulation: a comparative review towards applicability, functionality, activity, and stability. In BIOMATERIALS SCIENCE, 2024, vol. 12, no. 11, pp. 2841-2864. ISSN 2047-4830. Dostupné na: <https://doi.org/10.1039/d3bm01861j>, Registrované

v: WOS

4. [1.1] CUVILLIER, Luana - PASSARETTI, Arianna - GUILMINOT, Elodie - JOSEPH, Edith. Agar and Chitosan Hydrogels'; Design for Metal-Uptaking Treatments. In GELS, 2024, vol. 10, no. 1, art. no. 55. Dostupné na:

<https://doi.org/10.3390/gels10010055>, Registrované v: WOS

5. [1.1] DIANA, Rosita - MILZI, Ludovica - GENTILE, Francesco Silvio - PANNICO, Marianna - MUSTO, Pellegrino - MAIELLO, Anna - PANUNZI, Barbara. A versatile pH-sensitive hydrogel based on a high-performance dye: Monitoring the freshness of milk and chicken meat. In JOURNAL OF FOOD COMPOSITION AND ANALYSIS, 2024, vol. 135, no., art. no. 106667. ISSN 0889-1575. Dostupné na: <https://doi.org/10.1016/j.jfca.2024.106667>, Registrované v: WOS

6. [1.1] MUHAMMAD, Maysa - TAWFIC, Medhat - ELSABBAGH, Ahmed. Review of design and manufacturing of superabsorbent polymers (SAPs) hydrogel for agriculture in arid areas. In DISCOVER MATERIALS, 2024, vol. 4, no. 1, art. no. 43. Dostupné na: <https://doi.org/10.1007/s43939-024-00114-5>, Registrované v: WOS

7. [1.1] RAMCHAIK, Anamika - DEVI, Kavita - RANOTE, Sunita - CHAUHAN, Ghanshyam S. - CHAUHAN, Sandeep - KUMAR, Kiran. Functionalized pristine barley grain (*Hordeum vulgare* L.)-based superabsorbent as methylene blue loading and delivery device for the potential treatment of methemoglobinemia. In POLYMER BULLETIN, 2024, vol. 81, no. 6, pp. 5495-5515. ISSN 0170-0839. Dostupné na: <https://doi.org/10.1007/s00289-023-04974-4>, Registrované v: WOS

8. [1.1] SHAH, Muffarih - HAMEED, Abdul - KASHIF, Muhammad - MAJEED, Noor - MUHAMMAD, Javariya - SHAH, Nasrullah - REHAN, Touseef - KHAN, Abbas - UDDIN, Jalal - KHAN, Ajmal - KASHTOH, Hamdy. Advances in agar-based composites: A comprehensive review. In CARBOHYDRATE POLYMERS, 2024, vol. 346, no., art. no. 122619. ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2024.122619>, Registrované v: WOS

9. [1.1] SHAKYA, Kaushal R. - MANSOORI, Nasim - ANAND, Anmol - SHARMA, Vijay - VERMA, Vivek. Agarose Cryogels Loaded with Polydopamine Microspheres for Sustainable Wound Care with Enhanced Hemostatic and Antioxidant Properties. In ACS APPLIED BIO MATERIALS, 2024, vol. 7, no. 10, pp. 6808-6822. ISSN 2576-6422. Dostupné na: <https://doi.org/10.1021/acsabm.4c00945>, Registrované v: WOS

10. [1.1] ZHAN, Xue-Qing - RAN, Zhuo-Qing - BAO, Hong-Yu - YE, Qin - CHEN, Han - FU, Qiang - NI, Wang - XU, Jia-Min - MA, Ning - TSAI, Fang-Chang. Intelligent hydrogel on-off controller sensor for irrigation. In ADVANCED COMPOSITES AND HYBRID MATERIALS, 2024, vol. 7, no. 1, art. no. 6. ISSN 2522-0128. Dostupné na: <https://doi.org/10.1007/s42114-023-00821-2>, Registrované v: WOS

11. [1.2] DINGLEY, Cameron - CASS, Peter - ADHIKARI, Benu - DAVER, Fugen. Application of superabsorbent natural polymers in agriculture. In Polymers from Renewable Resources, 2024-05-01, 15, 2, pp. 210-255. ISSN 20412479. Dostupné na: <https://doi.org/10.1177/20412479231226166>, Registrované v: SCOPUS

12. [1.2] KULKARNI, Anant D. - CHAVAN, Aditi M. Scope of Biopolymers: Nanoscience and Nanotechnological Perspectives. In Sustainable Green Nanomaterials Synthesis Characterization and Engineering Applications, 2024-01-01, pp. 221-248. ISBN [9781774916803, 9781040098172]., Registrované v: SCOPUS

ADMA13

JERGEL, Matej - VLASÁK, Gabriel - DUHAJ, Pavol. Magnetostriction Study of Some Co-Based and Fe-Based Amorphous-Alloys. In Physica Status Solidi A :

applications and materials science, 1989, vol. 111, no. 2, p. 597-602. ISSN 1862-6300. Dostupné na: <https://doi.org/10.1002/pssa.2211110226>

Citácie:

1. [1.1] LIU, Lingfang - XU, Jiahui - LV, Minghao - KANG, Shujie - WANG, Jian - XU, Feng - SHI, Chao - ZHANG, Kewei - WANG, Jiafu - CHEN, Zhengxiang - HE, Jun - SUN, Zhigang. Effect of Nb doping on the magnetic properties and its fluxgate behavior of CoFeNbSiB amorphous ribbons. In JOURNAL OF ALLOYS AND COMPOUNDS, 2024, vol. 992, no., art. no. 174594. ISSN 0925-8388.

Dostupné na: <https://doi.org/10.1016/j.jallcom.2024.174594>, Registrované v: WOS

- ADMA14 KÁLOSI, Anna** - LABUDOVÁ, Martina - HVIZDOŠOVÁ, Adriana, Annušová - HOFBAUEROVÁ, Monika, Benkovičová - BODIK, Michal - KOLLÁR, Jozef - KOTLÁR, Mário - KASÁK, Peter - JERGEL, Matej - PASTOREKOVÁ, Silvia - ŠIFFALOVÍČ, Peter - MAJKOVÁ, Eva. A bioconjugated MoS₂ based nanoplatform with increased binding efficiency to cancer cells. In Biomaterials Science, 2020, vol. 8, no. 7, p. 1973-1980. (2019: 6.183 - IF, Q1 - JCR, 1.437 - SJR, Q1 - SJR). ISSN 2047-4849. Dostupné na: <https://doi.org/10.1039/c9bm01975h>

Citácie:

1. [1.1] HE, Yilin - ANDRADE, Andres Felipe - MENARD-MOYON, Cecilia - BIANCO, Alberto. Biocompatible 2D Materials via Liquid Phase Exfoliation. In ADVANCED MATERIALS, 2024, vol. 36, no. 24. ISSN 0935-9648. Dostupné na: <https://doi.org/10.1002/adma.202310999>, Registrované v: WOS

- ADMA15 KUHNAST, F.A. - HELD, O. - REGNIER, F. - ILLEKOVÁ, Emília. Calorimetric and structural analyses of mechanically alloyed and rapidly quenched Zr-Ni-Al alloys. In Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing, 1997, vol. 226, p. 463-467. (1996: 0.852 - IF, karentované - CCC). (1997 - Current Contents, WOS, SCOPUS). ISSN 0921-5093. Dostupné na: [https://doi.org/10.1016/s0921-5093\(97\)80057-3](https://doi.org/10.1016/s0921-5093(97)80057-3)

Citácie:

1. [1.1] NGUYEN, Hong Hai - OANH, Nguyen Thi Hoang - HOANG VIET, Nguyen. Enhanced thermal stability of amorphous Al-Fe alloys by addition of Ce and Mn. In MATERIALS RESEARCH EXPRESS, 2024, vol. 11, no. 6, art. no. 065201. Dostupné na: <https://doi.org/10.1088/2053-1591/ad513c>, Registrované v: WOS

- ADMA16 LÁNYI, Štefan - PINČÍK, Emil - NÁDAŽDY, Vojtech - WOLCYRZ, M. Lattice strain and defect structure of GaAs/native oxide interfaces. In Progress in Surface Science, 1990, vol. 35, no. 1-4, p. 201-204. ISSN 0079-6816. Dostupné na: [https://doi.org/10.1016/0079-6816\(90\)90043-J](https://doi.org/10.1016/0079-6816(90)90043-J)

Citácie:

1. [1.1] ZAMBRANO-ROJAS, Samuel - FONTHAL, Gerardo - ESCORCIA-SALAS, Gene Elizabeth - SIERRA-ORTEGA, Jose. Formation of Point Defects Due to Aging under Natural Conditions of Doped GaAs. In MATERIALS, 2024, vol. 17, no. 6, art. no. 1399. Dostupné na: <https://doi.org/10.3390/ma17061399>, Registrované v: WOS

- ADMA17 MAJERNÍK, Vladimír - MAJERNÍKOVÁ, E. The possibility of thermal solitons. In International Journal of Heat and Mass Transfer, 1995, vol. 38, no. 14, p. 2701-2703. ISSN 0017-9310. Dostupné na: [https://doi.org/10.1016/0017-9310\(94\)00356-Z](https://doi.org/10.1016/0017-9310(94)00356-Z)

Citácie:

1. [1.1] FELCY, A. Ludvin - LATHA, M. M. Effect of squared, cubic and quartic on-site potentials on heat conduction in a nonlinear silicon lattice. In PHYSICA B-CONDENSED MATTER, 2024, vol. 689, no., art. no. 416175. ISSN 0921-4526. Dostupné na: <https://doi.org/10.1016/j.physb.2024.416175>, Registrované v: WOS

- ADMA18 MARKOŠ, Peter**. Phenomenological theory of the metal-insulator transition. In Journal of Physics: Condensed Matter, 1995, vol. 7, no. 44, p. 8361-8375. (1994: 1.562 - IF, karentované - CCC). (1995 - Current Contents, WOS, SCOPUS). ISSN 0953-8984. Dostupné na: <https://doi.org/10.1088/0953-8984/7/44/006>
Citácie:
1. [1.1] ZHAO, Pengwei - XIAO, Zhenyu - ZHANG, Yeyang - SHINDOU, Ryuichi. Topological Effect on the Anderson Transition in Chiral Symmetry Classes. In PHYSICAL REVIEW LETTERS, 2024, vol. 133, no. 22, art. no. 226601. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.133.226601>, Registrované v: WOS
- ADMA19 MASUTO, Y. - NOJIMA, T. - KUWASAWA, Y. - MAJKOVÁ, Eva - LUBY, Štefan. Current-voltage characteristics and layer coupling in amorphous W/Si multilayers. In Physica C. Superconductivity and its applications, 1997, vol. 277, no. 1-2, p. 138-144. (1996: 1.723 - IF, karentované - CCC). (1997 - Current Contents, WOS, SCOPUS). ISSN 0921-4534. Dostupné na: [https://doi.org/10.1016/S0921-4534\(97\)00050-6](https://doi.org/10.1016/S0921-4534(97)00050-6)
Citácie:
1. [1.1] MAO, Zhangwen - QIU, Dawei - XU, Zhihang - HAO, Bo - ZHANG, Hong-Yi - SUN, Haoying - PEI, Xudong - WANG, Maosen - LI, Yueying - GU, Zheng-Bin - ZHU, Ye - CHENG, Guanglei - NIE, Yuefeng. A Two-Dimensional Superconducting Electron Gas at LaFeO₃/SrTiO₃ Interfaces. In NANO LETTERS, 2024, vol. 25, no. 1, pp. 586-592. ISSN 1530-6984. Dostupné na: <https://doi.org/10.1021/acs.nanolett.4c05774>, Registrované v: WOS
- ADMA20 MIHALKOVIČ, Marek - WIDOM, Michael**. Formation enthalpies of Al-Mn-Pd and the structure of the i-AlMnPd quasicrystal. In Rendiconti Lincei - Scienze Fisiche e Naturali, 2023, vol. 34, no. 3, p. 671-680. (2022: 2 - IF, Q3 - JCR, 0.318 - SJR, Q2 - SJR). ISSN 2037-4631. Dostupné na: <https://doi.org/10.1007/s12210-023-01165-1>
Citácie:
1. [1.1] SANDERS, Kyana M. - GRESSEL, Danica G. - FREDRICKSON, Rie T. - FREDRICKSON, Daniel C. Toward Predicting the Assembly of Modular Intermetallics from Chemical Pressure Analysis: The Interface Nucleus Approach. In INORGANIC CHEMISTRY, 2024, vol. 63, no. 15, pp. 6626-6637. ISSN 0020-1669. Dostupné na: <https://doi.org/10.1021/acs.inorgchem.3c04390>, Registrované v: WOS
- ADMA21 NAZIR, Abrar - DIXIT, Aparna - KHERA, Ejaz Ahmad - MANZOOR, Mumtaz - SHARMA, Ramesh - MOAYAD, A. J. A. A DFT exploration of the optoelectronic and thermoelectric features of a novel halide double perovskite A₂YAuI₆ (A = Rb, Cs) for solar cell and renewable energy applications. In Materials Advances, 2024, vol. 5, no. 10, p. 4262-4275. (2023: 5.2 - IF, Q2 - JCR, 1.033 - SJR, Q1 - SJR). ISSN 2633-5409. Dostupné na: <https://doi.org/10.1039/d4ma00090k>
Citácie:
1. [1.1] AL-QAISI, Samah - IRAM, Nazia - BOUTRAMINE, Abderrazak - ALQORASHI, Afaf Khadr - ALREBDI, Tahani A. - RACHED, Habib - EZZELDIEN, Mohammed - VERMA, Ajay Singh - RAHMAN, Nasir - RAHMAN, Md. Ferdous. Theoretical Investigation of a new Double Perovskites of Rb₂CuSbZ₆ (Z = F, Br, and I) for Sustainable Technologies. In JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, 2024, vol. 34, no. 12, pp. 6146-6158. ISSN 1574-1443. Dostupné na: <https://doi.org/10.1007/s10904-024-03250-w>, Registrované v: WOS
2. [1.1] IDRISSE, S. - JABAR, A. - BAHMAD, L. A DFT study of the CaMg₂As₂ material for photovoltaic applications. In SOLID STATE COMMUNICATIONS,

2024, vol. 392, no., art. no. 115655. ISSN 0038-1098. Dostupné na:

<https://doi.org/10.1016/j.ssc.2024.115655>, Registrované v: WOS

- ADMA22 PLESCH, Martin - DAHLSTEN, O. - GOOLD, J. - VEDRAL, V. Maxwell's Daemon: Information versus Particle Statistics. In Scientific Reports, 2014, vol. 4, art. no. 6995. (2013: 5.078 - IF, Q1 - JCR, 1.886 - SJR, Q1 - SJR). (2014 - WOS, Scopus). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/srep06995>

Citácie:

1. [1.1] CARAVELLI, F. The Bellman equation and optimal local flipping strategies for kinetic Ising models. In PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, 2024, vol. 649, no., art. no. 129956. ISSN 0378-4371.

Dostupné na: <https://doi.org/10.1016/j.physa.2024.129956>, Registrované v: WOS

- ADMA23 ŠTEFÍK, Pavol** - HVIŽDOŠOVÁ, Adriana, Annušová - LAKATOŠ, Boris - ELEFANTOVÁ, Katarína - ČEPCOVÁ, Lucia - HOFBAUEROVÁ, Monika, Benkovičová - KÁLOSI, Anna - JERDEL, Matej - MAJKOVÁ, Eva - ŠIFFALOVÍČ, Peter. Targeting acute myeloid leukemia cells by CD33 receptor-specific MoS₂-based nanoconjugates. In Biomedical Materials, 2021, vol. 16, no. 5, art. no. 055009. (2020: 3.715 - IF, Q2 - JCR, 0.744 - SJR, Q1 - SJR). ISSN 1748-6041. Dostupné na: <https://doi.org/10.1088/1748-605X/ac15b1>

Citácie:

1. [1.1] ABDELLATEIF, Mona S. - HASSAN, Naglaa M. - KAMEL, Mahmoud M. - EL-MELIGUI, Yomna M. Bone marrow microRNA-34a is a good indicator for response to treatment in acute myeloid leukemia. In ONCOLOGY RESEARCH, 2024, vol. 32, no. 3, pp. 577-584. ISSN 0965-0407. Dostupné na:

<https://doi.org/10.32604/or.2023.043026>, Registrované v: WOS

2. [1.1] HE, Yilin - ANDRADE, Andres Felipe - MENARD-MOYON, Cecilia - BIANCO, Alberto. Biocompatible 2D Materials via Liquid Phase Exfoliation. In ADVANCED MATERIALS, 2024, vol. 36, no. 24. ISSN 0935-9648. Dostupné na:

<https://doi.org/10.1002/adma.202310999>, Registrované v: WOS

- ADMA24 VIDIŠ, Marek - FIANTOK, Tomáš - GOCNÍK, Marek - ŠVEC, Peter Jr. - NAGY, Štefan - TRUCHLÝ, Martin - IZAI, Vitalii - ROCH, Tomáš - SATRAPINSKY, Leonid - ŠROBA, Viktor - MEINDLHUMER, Michael - GRANČIČ, Branislav - KÚŠ, Peter - KECKES, Jozef - MIKULA, Marian. Hardness and fracture toughness enhancement in transition metal diboride multilayer films with structural variations. In Materialia, 2024, vol. 34, art. no. 102070. (2023: 3 - IF, Q2 - JCR, 0.833 - SJR, Q2 - SJR). ISSN 2589-1529. Dostupné na: <https://doi.org/10.1016/j.mtla.2024.102070>

Citácie:

1. [1.1] DORRI, S. - PALISAITIS, J. - KOLOZSVÁRI, S. - POLCIK, P. - PERSSON, POÅ - GHAFOR, N. - ERIKSSON, F. - BIRCH, J. TiB_{1.8} single layers and epitaxial TiB₂-based superlattices by magnetron sputtering using a TiB (Ti:B=1:1) target. In SURFACE & COATINGS TECHNOLOGY. ISSN 0257-8972, OCT 30 2024, vol. 494, 3. Dostupné na:

<https://doi.org/10.1016/j.surfcoat.2024.131534>, Registrované v: WOS

ADMB Vedecké práce v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADMB01 ADACHI, Yuuki - BRNDIAR, Ján - WEI, Huan Fei - ZHANG, Quanzhen - MIYAZAKI, Masato - THAKUR, Sourbh - SUGAWARA, Yasuhiro - SANG, Hongqian - LI, Yanjun** - ŠTICH, Ivan** - KANTOROVICH, Lev**. Electron dynamics of tip-tunable oxygen species on TiO₂ surface. In Communications materials, 2021, vol. 2, no. 1, art. no. 71. ISSN 2662-4443. Dostupné na:

<https://doi.org/10.1038/s43246-021-00176-5>

Citácie:

1. [1.1] *SHI, Yunxi - XIE, Junfeng - CAI, Yixi - LUO, Yong - LI, Zhengsheng - CHEN, Xulong - DING, Zhengping. Evaluating Discharge Performance and Catalytic Properties of Nanoscale Catalyst Dielectric Barrier Discharge System. In PLASMA CHEMISTRY AND PLASMA PROCESSING, 2024, vol. 44, no. 1, pp. 211-238. ISSN 0272-4324. Dostupné na: <https://doi.org/10.1007/s11090-023-10395-y>, Registrované v: WOS*

ADMB02 AMBAINIS, A. - IRADIS, J. - NAGAJ, Daniel. Exact Quantum Query Complexity of EXACTk,l(n). In Lecture Notes in Computer Science. - Heidelberg : Springer, 2017, vol. 10329, p. 243-255. (2016: 0.339 - SJR, Q2 - SJR). ISSN 0302-9743. Dostupné na: https://doi.org/10.1007/978-3-319-51963-0_19

Citácie:

1. [1.1] *WU, Zipeng - HOU, Shi-Yao - ZHANG, Chao - LI, Lvzhou - ZENG, Bei. Variational learning algorithms for quantum query complexity. In NEW JOURNAL OF PHYSICS, 2024, vol. 26, no. 3, art. no. 033024. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad309c>, Registrované v: WOS*

ADMB03 BARTOŠ, Erik - DUBNIČKA, Stanislav** - DUBNIČKOVÁ, Anna Zuzana. Search for Damped Oscillating Structures from Charged Pion Electromagnetic Form Factor Data. In Dynamics, 2023, vol. 3, no. 1, pp. 137-151. ISSN 2673-8716. Dostupné na: <https://doi.org/10.3390/dynamics3010009>

Citácie:

1. [1.1] *PIRE, Bernard - SONG, Qin-Tao. Kinematical higher-twist corrections in $\gamma^* \rightarrow M1 M2\gamma$: Charged meson production. In PHYSICAL REVIEW D, 2024, vol. 109, no. 7, art. no. 074016. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.109.074016>, Registrované v: WOS*

ADMB04 CARMELI, C. - HEINOSAARI, T. - REITZNER, Daniel - SCHULTZ, J. - TOIGO, A. Quantum incompatibility in collective measurements. In Mathematics, 2016, vol. 4, no. 3, art. no. 54. (2016 - SCOPUS, WOS). ISSN 2227-7390. Dostupné na: <https://doi.org/10.3390/math4030054>

Citácie:

1. [1.1] *VEEREN, Isadora - PLAVALA, Martin - LEPPAEJAERVI, Leevi - UOLA, Roope. Semi-device-independent certification of the number of measurements. In PHYSICAL REVIEW A, 2024, vol. 109, no. 6, art. no. 062203. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.109.062203>, Registrované v: WOS*

ADMB05 DAVALOS, David** - ZIMAN, Mário - PINEDA, Carlos. Divisibility of qubit channels and dynamical maps. In Quantum : the open journal for quantum science, 2019, vol. 3, art. no. 144. (2019 - Current Contents, WOS, SCOPUS). ISSN 2521-327X. Dostupné na: <https://doi.org/10.22331/q-2019-05-20-144>

Citácie:

1. [1.1] *CHRUSCINSKI, Dariusz - BHATTACHARYA, Bihalan. A class of Schwarz qubit maps with diagonal unitary and orthogonal symmetries. In JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, 2024, vol. 57, no. 39, art. no. 395202. ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/ad75d6>, Registrované v: WOS*

<https://doi.org/10.1088/1751-8121/ad75d6>, Registrované v: WOS

2. [1.1] *CHRUSCINSKI, Dariusz - KIMURA, Gen - MUKHAMEDOV, Farrukh. Universal constraint for relaxation rates of semigroups of qubit Schwarz maps. In JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, 2024, vol. 57, no. 18, art. no. 185302. ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/ad3c82>, Registrované v: WOS*

<https://doi.org/10.1088/1751-8121/ad3c82>, Registrované v: WOS

3. [1.1] *GUMEROV, R. N. - KHAZHIN, R. L. Generating quantum dynamical*

mappings. In *THEORETICAL AND MATHEMATICAL PHYSICS*, 2024, vol. 221, no. 3, pp. 2177-2192. ISSN 0040-5779. Dostupné na:

<https://doi.org/10.1134/S0040577924120122>, Registrované v: WOS

4. [1.1] MAITY, Ananda G. - BHATTACHARYA, Samyadeb. Activating information backflow with the assistance of quantum SWITCH. In *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, 2024, vol. 57, no. 21, art. no. 215302. ISSN 1751-8113. Dostupné na:

<https://doi.org/10.1088/1751-8121/ad41a7>, Registrované v: WOS

5. [1.1] REYNOSO, Alejandro Contreras - GORIN, Thomas. Normal quantum channels and Markovian correlated two-qubit quantum errors. In *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, 2024, vol. 57, no. 22, art. no. 225301. ISSN 1751-8113. Dostupné na:

<https://doi.org/10.1088/1751-8121/ad4699>, Registrované v: WOS

6. [1.1] SHAHBEIGI, Fereshte - CHUBB, Christopher T. - KUKULSKI, Ryszard - PAWELA, Lukasz - KORZEKWA, Kamil. Quantum-embeddable stochastic matrices. In *QUANTUM*, 2024, vol. 8, no., art. no. 1404. ISSN 2521-327X., Registrované v: WOS

7. [1.1] VOM ENDE, Frederik. Almost All Quantum Channels Are Diagonalizable. In *OPEN SYSTEMS & INFORMATION DYNAMICS*, 2024, vol. 31, no. 03, art. no. 2450012. ISSN 1230-1612. Dostupné na:

<https://doi.org/10.1142/S1230161224500124>, Registrované v: WOS

ADMB06 DUBNIČKOVÁ, A. Z. - DUBNIČKA, Stanislav - GOUDZOVSKI, E. - PERVUSHIN, V. N. - SEČANSKÝ, M. Radiative Kaon Decay in the Chiral Perturbation Theory^{1,2}. In *Physics of Particles and Nuclei Letters*, 2008, vol. 5, no. 2, p. 76-84. (2007: 0.149 - SJR, Q3 - SJR). (2008 - SCOPUS). ISSN 1547-4771. Dostupné na: <https://doi.org/10.1134/S1547477108020039>

Citácie:

1. [1.1] D'AMBROSIO, Giovanni - IYER, Abhishek M. - MAHMOUDI, Nazila - NESHATPOUR, S. Exploring scalar contributions with $KSUP+/SUP \rightarrow \pi SUP+/SUP ISUP+/SUP ISUP-/SUP$. In *PHYSICS LETTERS B*, 2024, vol. 855, no., art. no. 138824. ISSN 0370-2693. Dostupné na:

<https://doi.org/10.1016/j.physletb.2024.138824>, Registrované v: WOS

ADMB07 HODAS, Martin** - ŠIFFALOVIČ, Peter - NÁDAŽDY, Peter - MRKÝVKOVÁ, Naďa, Tesařová - BODIK, Michal - HALAHOVETS, Yuriy - DUVA, Giuliano - REISZ, Berthold - KONOVALOV, Oleg - OHM, Wiebke - JERGEL, Matej - MAJKOVÁ, Eva - GERLACH, Alexander - HINDERHOFER, Alexander - SCHREIBER, Frank. Real-Time Monitoring of Growth and Orientational Alignment of Pentacene on Epitaxial Graphene for Organic Electronics. In *ACS Applied Nano Materials*, 2018, vol. 1, no. 6, p. 2819-2826. (2018 - MEDLINE). ISSN 2574-0970. Dostupné na: <https://doi.org/10.1021/acsanm.8b00473>

Citácie:

1. [1.1] BALZER, Frank - FRATSCHKO, Mario - RESEL, Roland - SCHIEK, Manuela. Multimodal Microscopy of Partially Oriented para-Hexaphenylene Nanoaggregates. In *LANGMUIR*, 2024, vol. 40, no. 49, pp. 25862-25870. ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.4c03073>, Registrované v: WOS

2. [1.1] MAHO, Anthony - KIM, Dong Kuk - WADE, Jessica - BRYAN, Emma - HENRARD, Luc - OLIVIER, Yoann - DIMITROV, Stoichko D. - CLOOTS, Rudi - HEUTZ, Sandrine. Towards photoelectrochromic modulation of NIR absorption in plasmonic ITO using pentacene films. In *JOURNAL OF MATERIALS CHEMISTRY C*, 2024, vol. 12, no. 45, pp. 18308-18319. ISSN 2050-7526. Dostupné na: <https://doi.org/10.1039/d4tc01154f>, Registrované v: WOS

3. [1.1] WERZER, Oliver - KOWARIK, Stefan - GASSER, Fabian - JIANG, Zhang - STRZALKA, Joseph - NICKLIN, Christopher - RESEL, Roland. *X-ray diffraction under grazing incidence conditions*. In *NATURE REVIEWS METHODS PRIMERS*, 2024, vol. 4, no. 1, art. no. 15. Dostupné na: <https://doi.org/10.1038/s43586-024-00293-8>, Registrované v: WOS
- ADMB08 JAMES, Jemy - JOSEPH, Blessy - SHAJI, Ashin - NANCY, Parvathy - KALARIKKAL, Nandakumar - THOMAS, Sabu - GROHENS, Yves - VIGNAUD, Guillaume. *Microscopic Analysis of Plasma-Activated Polymeric Materials*. In *Non-Thermal Plasma Technology for Polymeric Materials: Applications in Composites, Nanostructured Materials and Biomedical Fields*. - Amsterdam, Netherlands : Elsevier Inc., 2019, 2019, p. 287-317. ISBN 978-0-12-813152-7. Dostupné na: <https://doi.org/10.1016/B978-0-12-813152-7.00011-1>
- Citácie:
1. [1.1] AJMAL, Muhammad - ASAD, Muhammad - HUO, Weizhong - SHAO, Yuchao - LU, Wenjing. *Enhancing degradation of PLA-made rigid biodegradable plastics with non-thermal plasma treatment*. In *JOURNAL OF CLEANER PRODUCTION*, 2024, vol. 479, no., art. no. 143985. ISSN 0959-6526. Dostupné na: <https://doi.org/10.1016/j.jclepro.2024.143985>, Registrované v: WOS
2. [1.1] DONKOR, Sylvia Owusua - SUN, Danmei - BUCKNALL, David - BUCKMAN, Jim. *Surface Activation of Cotton Fabric with Low-Temperature Air Plasma Treatment for Metallic Printing*. In *FIBERS AND POLYMERS*, 2024, vol. 25, no. 11, pp. 4321-4332. ISSN 1229-9197. Dostupné na: <https://doi.org/10.1007/s12221-024-00738-7>, Registrované v: WOS
3. [1.1] LARIMI, Morsal Momeni - RAMIAR, Abas - ESMAILI, Qadir. *Study on characteristics and functionality of mono/compound microdroplets generation of shear-thinning solutions in a flow-focusing microchannel*. In *INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER*, 2024, vol. 156, no., art. no. 107590. ISSN 0735-1933. Dostupné na: <https://doi.org/10.1016/j.icheatmasstransfer.2024.107590>, Registrované v: WOS
4. [1.1] LOBREGAS, Michaela Olisha S. - RANGKUPAN, Ratthapol - RIASSETTO, David - KLAYSON, Chalida. *Advancing Surface-Enhanced Electrospun Nanofiber Membranes: Customizing Properties for Enhanced Performance in Membrane Distillation*. In *MACROMOLECULAR MATERIALS AND ENGINEERING*, 2024, vol. 309, no. 7. ISSN 1438-7492. Dostupné na: <https://doi.org/10.1002/mame.202300461>, Registrované v: WOS
5. [1.1] WANTE, Haruna P. - AIDAN, Joseph - LING, Yap S. *Highly improved efficiency of flexible dye sensitized solar cells (DSSCs) by non-thermal plasma processing of PEI-ITO polymer*. In *OPTICAL MATERIALS*, 2024, vol. 150, no., art. no. 115331. ISSN 0925-3467. Dostupné na: <https://doi.org/10.1016/j.optmat.2024.115331>, Registrované v: WOS
- ADMB09 KOSTIUK, Dmytro - LUBY, Štefan - DEMYDENKO, Maksym - JERGEL, Matej - ŠIFFALOVÍČ, Peter - IVANČO, Ján - MAJKOVÁ, Eva. *Few-layer graphene Langmuir-Schaefer nanofilms for H₂ gas sensing*. In *Procedia Engineering*, 2016, vol. 168, p. 243-246. (2015: 0.238 - SJR). ISSN 1877-7058. Dostupné na: <https://doi.org/10.1016/j.proeng.2016.11.172>
- Citácie:
1. [1.1] SONG, Okin - CHO, Youngwook - CHO, Soo-Yeon - KANG, Joohoon. *Solution-processing approach of nanomaterials toward an artificial sensory system*. In *INTERNATIONAL JOURNAL OF EXTREME MANUFACTURING*, 2024, vol. 6, no. 5, art. no. 052001. ISSN 2631-8644. Dostupné na: <https://doi.org/10.1088/2631-7990/ad4c29>, Registrované v: WOS
- ADMB10 MAJERNÍK, V. - NAGY, Miroslav. *Quaternionic Form of Maxwells Equations with*

Sources. In *Lettere al Nuovo Cimento*, 1976, vol. 16, no. 9, p. 265-268. ISSN 0375-930X. Dostupné na: <https://doi.org/10.1007/BF02747070>

Citácie:

1. [1.1] SENTURK, Gulsum Yeliz - GURSES, Nurten. Dual quaternion theory over HGC numbers. In *JOURNAL OF DISCRETE MATHEMATICAL SCIENCES & CRYPTOGRAPHY*, 2024, vol. 27, no. 1, pp. 117-142. ISSN 0972-0529.

Dostupné na: <https://doi.org/10.47974/JDMSC-1611>, Registrované v: WOS

2. [1.1] YILMAZ, Cigdemigdem zeynep - SACLI, Gulsum yeliz. INVESTIGATING THE DUAL QUATERNION EXTENSION OF THE DGC LEONARDO SEQUENCE. In *HONAM MATHEMATICAL JOURNAL*, 2024, vol. 46, no. 4, pp. 677-696. ISSN 1225-293X. Dostupné na:

<https://doi.org/10.5831/HMJ.2024.46.4.677>, Registrované v: WOS

ADMB11

MIHALKOVIČ, Marek** - WIDOM, Michael**. Spontaneous formation of thermodynamically stable Al-Cu-Fe icosahedral quasicrystal from realistic atomistic simulations. In *Physical Review Research*, 2020, vol. 2, no. 1, art. no. 013196. ISSN 2643-1564. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.2.013196>

Citácie:

1. [1.1] NAGAI, Yuki - IWASAKI, Yutaka - KITAHARA, Koichi - TAKAGIWA, Yoshiki - KIMURA, Kaoru - SHIGA, Motoyuki. High-Temperature Atomic Diffusion and Specific Heat in Quasicrystals. In *PHYSICAL REVIEW LETTERS*, 2024, vol. 132, no. 19, art. no. 196301. ISSN 0031-9007. Dostupné na:

<https://doi.org/10.1103/PhysRevLett.132.196301>, Registrované v: WOS

2. [1.1] YAMADA, Tsunetomo - TAKAKURA, Hiroyuki - YAMAMOTO, Akiji. Structure of face-centred icosahedral quasicrystals with cluster close packing. In *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 2024, vol. 80, no., pp. 422-438. ISSN 2053-2733. Dostupné na:

<https://doi.org/10.1107/S2053273324008568>, Registrované v: WOS

ADMB12

MOHAMMADY, Mohammed Hamed - ROMITO, Alessandro. Conditional work statistics of quantum measurements. In *Quantum : the open journal for quantum science*, 2019, vol. 3, art. no. 175. (2019 - Current Contents, WOS, SCOPUS). ISSN 2521-327X. Dostupné na: <https://doi.org/10.22331/q-2019-08-19-175>

Citácie:

1. [1.1] PINTO SILVA, Thales A. B. - SCHULICH, David Gelbwaser-Klimovsky. Quantum work: Reconciling quantum mechanics and thermodynamics. In *PHYSICAL REVIEW RESEARCH*, 2024, vol. 6, no. 2, art. no. L022036. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.6.L022036>, Registrované v: WOS

2. [1.1] V. HOVHANNISYAN, Karen - IMPARATO, Alberto. Energy conservation and fluctuation theorem are incompatible for quantum work. In *QUANTUM*, 2024, vol. 8, no., art. no. 1336. ISSN 2521-327X. Dostupné na:

<https://doi.org/10.22331/q-2024-05-06-1336>, Registrované v: WOS

ADMB13

MUKHOPADHYAY, Chiranjib - PATI, Arun Kumar**. Superposition of causal order enables quantum advantage in teleportation under very noisy channels. In *Journal of Physics Communications*, 2020, vol. 4, no. 10, art. no. 105003. (2019: 0.431 - SJR, Q3 - SJR). ISSN 2399-6528. Dostupné na:

<https://doi.org/10.1088/2399-6528/abbd77>

Citácie:

1. [1.1] BAN, Masashi. Phase estimation for a single-mode photon influenced by completely thermalizing channels with indefinite causal order. In *PHYSICS LETTERS A*, 2024, vol. 521, no., art. no. 129744. ISSN 0375-9601. Dostupné na: <https://doi.org/10.1016/j.physleta.2024.129744>, Registrované v: WOS

2. [1.1] CHITI, Francesco - PICCHI, Roberto - PIERUCCI, Laura. A survey on non-terrestrial quantum networking: Challenges and trends. In *COMPUTER*

NETWORKS, 2024, vol. 252, no., art. no. 110668. ISSN 1389-1286. Dostupné na: <https://doi.org/10.1016/j.comnet.2024.110668>, Registrované v: WOS

3. [1.1] KARPAT, Goktug - CAKMAK, Baris. Memory in quantum processes with indefinite time direction and causal order. In PHYSICAL REVIEW A, 2024, vol. 110, no. 1, art. no. 012446. ISSN 2469-9926. Dostupné na:

<https://doi.org/10.1103/PhysRevA.110.012446>, Registrované v: WOS

4. [1.1] KECHRIMPARIS, Spiros - MORAN, James - KARSA, Athena - LEE, Changhyoup - KWON, Hyukjoon. Enhancing quantum state discrimination with indefinite causal order. In NEW JOURNAL OF PHYSICS, 2024, vol. 26, no. 12, art. no. 123030. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ada05e>, Registrované v: WOS

5. [1.1] MAITY, Ananda G. - BHATTACHARYA, Samyadeb. Activating information backflow with the assistance of quantum SWITCH. In JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, 2024, vol. 57, no. 21, art. no. 215302. ISSN 1751-8113. Dostupné na:

<https://doi.org/10.1088/1751-8121/ad41a7>, Registrované v: WOS

6. [1.1] MUKHERJEE, Saheli - MALLICK, Bivas - YANAMANDRA, Sravani - BHATTACHARYA, Samyadeb - MAITY, Ananda G. Interplay between the Hilbert-space dimension of a control system and the memory induced by a quantum switch. In PHYSICAL REVIEW A, 2024, vol. 110, no. 4, art. no. 042624. ISSN 2469-9926. Dostupné na: <https://doi.org/10.1103/PhysRevA.110.042624>, Registrované v: WOS

7. [1.2] CARDOSO-ISIDORO, Carlos - DELGADO, Francisco. An Architecture Superposing Indefinite Causal Order and Path Superposition Improving Pauli Channels' Parameter Estimation. In Symmetry, 2024-01-01, 16, 1, pp. Dostupné na: <https://doi.org/10.3390/sym16010074>, Registrované v: SCOPUS

ADMB14 PLEVACHUK, Yurij** - ŠVEC, Peter - ŠVEC, Peter Jr. - OROVČÍK, Ľubomír - BAJANA, Otto - YAKYMOVYCH, Andriy** - RUD, Alexander. Metal deposited nanoparticles as “bridge materials” for lead-free solder nanocomposites. In Applied Nanoscience, 2023, vol. 13, no. 12, p. 7387-7397. (2022: 0.485 - SJR, Q2 - SJR). ISSN 2190-5509. Dostupné na: <https://doi.org/10.1007/s13204-023-02898-z>

Citácie:

1. [1.2] HU, X. J. - SUN, W. - LIAO, J. L. - ZHANG, Y. H. - WANG, B. - SHUAI, S. S. - LIU, C. - ZENG, G. The influences of microstructural length scale on the tensile properties and deformation mechanisms of Sn-3.0Ag-0.5Cu solder alloys. In Materials Science and Engineering A, 2024-11-01, 916, pp. ISSN 09215093. Dostupné na: <https://doi.org/10.1016/j.msea.2024.147300>, Registrované v: SCOPUS

ADMB15 RAČKO, Dušan - KRIŠTIÁK, Jozef. The free volume dynamics. In Materials Science Forum, 2013, vol. 733, p. 33 - 37. (2013 - WOS, SCOPUS). ISSN 0255-5476. Dostupné na: <https://doi.org/10.4028/www.scientific.net/MSF.733.33>

Citácie:

1. [1.1] AL OTMI, Mohammed - WILLMORE, Frank - SAMPATH, Janani. Structure, Dynamics, and Hydrogen Transport in Amorphous Polymers: An Analysis of the Interplay between Free Volume Element Distribution and Local Segmental Dynamics from Molecular Dynamics Simulations. In MACROMOLECULES, 2023, vol. 56, no. 22, pp. 9042-9053. ISSN 0024-9297. Dostupné na: <https://doi.org/10.1021/acs.macromol.3c01508>, Registrované v: WOS

2. [1.1] KONDRATIEV, Yuri G. - KUNA, Tobias - OLIVEIRA, Maria Joao - DA SILVA, Jose Luis - STREIT, Ludwig. Results About the Free Kawasaki Dynamics of Continuous Particle Systems in Infinite Volume: Long-time Asymptotics and

Hydrodynamic Limit. In FROM PARTICLE SYSTEMS TO PARTIAL DIFFERENTIAL EQUATIONS, PSPDE X 2022 : 10th International conference on Particle Systems and Partial Differential Equations (PSPDE), 2024, vol. 465, no., pp. 149-185. ISSN 2194-1009. Dostupné na: https://doi.org/10.1007/978-3-031-65195-3_7, Registrované v: WOS

3. [1.1] MOR, Jaideep - NELLIYIL, Renjith B. - SHARMA, Sandeep Kumar. *Interfacial-interaction induced modifications in segmental dynamics and free volume of the poly(ethyleneimine) canopy in nanoparticle-organic hybrid materials: an investigation by temperature dependent broadband dielectric and positron annihilation spectroscopy. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS, 2024, vol. 26, no. 12, pp. 9608-9616. ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/d3cp05902b>, Registrované v: WOS*

ADMB16 SALEHTASH, Farnoush - HVIZDOŠOVÁ, Adriana, Annušová - NÁDAŽDY, Vojtech - HALAHOVETS, Yuriy - ALBRYCHT, Pawel - ŠIFFALOVIČ, Peter - JERGEL, Matej - MAJKOVÁ, Eva - KRONEKOVÁ, Zuzana - PELACH, Michal - LACÍK, Igor. *Toward SERS-based dynamic detection of insulin diffusing through hydrogel matrices. In 2021 NANOCON Conference Proceedings - International Conference on Nanomaterials. - Ostrava, ČR : TANGER Ltd., 2021, p. 228-233. ISBN 978-80-88365-00-6. ISSN 2694-930X. Dostupné na: <https://doi.org/10.37904/nanocon.2021.4363>*

Citácie:

1. [1.1] JAISWAL, A. - NAQVI, T.K. - DWIVEDI, P.K. - VERMA, S. *Single-platform, Attomolar Detection of Multiple Biomarkers by a Flexible SERS Sensor. In CHEMISTRY-AN ASIAN JOURNAL. ISSN 1861-4728, JUL 17 2023, vol. 18, no. 14. Dostupné na: <https://doi.org/10.1002/asia.202300441>, Registrované v: WOS*

ADMB17 SEDLAČKOVÁ, Katarína** - BUTVINOVÁ, Beata - PAVÚK, Milan - DEKAN, Július - SOJAK, Stanislav - NOVÁK, Patrik - SITEK, Jozef. *The effect of annealing atmosphere on the structural properties of FeSiBPCu alloys with different silicon content. In Hyperfine Interactions, 2022, vol. 243, no. 1, art. no. 23. (2021: 0.329 - SJR, Q3 - SJR). ISSN 0304-3843. Dostupné na: <https://doi.org/10.1007/s10751-022-01806-1>*

Citácie:

1. [1.1] EL BOUBEKRI, A. - TILLAOUI, S. - SAJIEDDINE, M. - SAHLAOUI, M. - LASSRI, H. - RAZOUK, A. *Mossbauer analysis of (FeNiCrSiB) amorphous alloy ribbons. In PHYSICA B-CONDENSED MATTER, 2024, vol. 691, no., art. no. 416374. ISSN 0921-4526. Dostupné na:*

<https://doi.org/10.1016/j.physb.2024.416374>, Registrované v: WOS

ADMB18 SINGH, Vipin Kumar - MIHALKOVIČ, Marek** - KRAJČÍ, Marián** - SARKAR, Shuvam - SADHUKHAN, Pampa - MANIRAJ, M. - RAI, Abhishek - PUSSI, Katariina - SCHLAGEL, Deborah L. - LOGRASSO, Thomas A. - SHUKLA, Ajay Kumar - BARMAN, Sudipta Roy**. *Quasiperiodic ordering in thick Sn layer on i-Al-Pd-Mn: A possible quasicrystalline clathrate. In Physical Review Research, 2020, vol. 2, no. 1, art. no. 013023. ISSN 2643-1564. Dostupné na: <https://doi.org/10.1103/PhysRevResearch.2.013023>*

Citácie:

1. [1.1] GUAN, Qilong - HANG, Chunjin - ZHANG, Wei - LI, Shengli - TANG, Xiaojia - YU, Dan - DING, Ying - WANG, Xiuli - WU, Guangdong - YAO, Gang. *Pb Segregation in SnPb eutectic solder alloy induced by gamma irradiation. In CORROSION SCIENCE, 2024, vol. 236, no., art. no. 112249. ISSN 0010-938X. Dostupné na: <https://doi.org/10.1016/j.corsci.2024.112249>, Registrované v: WOS*

2. [1.1] SHARMA, Hem Raj - NUGENT, Peter John - COATES, Sam -

- MCGRATH, Ronan. Quasicrystalline Antimony Thin Films. In ISRAEL JOURNAL OF CHEMISTRY, 2024, vol. 64, no. 10-11. ISSN 0021-2148. Dostupné na: <https://doi.org/10.1002/ijch.202300135>, Registrované v: WOS*
- ADMB19 SZOBOLOVSZKY, Robert - ŠIFFALOVIČ, Peter - HODAS, Martin - PELLETTA, Marco - JERGEL, Matej - SABOL, Dušan - MACHA, Marek - MAJKOVÁ, Eva. Waste heat recovery in solid-state lighting based on thin film thermoelectric generators. In Sustainable Energy Technologies and Assessments, 2016, vol. 18, p. 1-5. (2015: 1.044 - SJR, Q1 - SJR). ISSN 2213-1388. Dostupné na: <https://doi.org/10.1016/j.seta.2016.09.005>
- Citácie:
1. [1.1] MOHAMMADI, Amin - MALEKI, Akbar. Performance Improvement of the LNG Regasification Process Based on Geothermal Energy Using a Thermoelectric Generator and Energy and Exergy Analyses. In SUSTAINABILITY, 2024, vol. 16, no. 24, art. no. 10881. Dostupné na: <https://doi.org/10.3390/su162410881>, Registrované v: WOS
- ADMB20 WODAK, Irina - YAKYMOVYCH, Andriy** - ŠVEC, Peter - OROVČÍK, Ľubomír - KHATIBI, Golta. Hybrid solder joints: the effect of nanosized ZrO₂ particles on morphology of as-reflowed and thermally aged Sn-3.5Ag solder joints. In Applied Nanoscience, 2023, vol. 13, no. 11, p. 7379-7385. (2022: 0.485 - SJR, Q2 - SJR). ISSN 2190-5509. Dostupné na: <https://doi.org/10.1007/s13204-023-02912-4>
- Citácie:
1. [1.2] ILLÉS, Balázs - CHOI, Halim - SZOSTAK, Krzysztof - BYUN, Jaeduk - SKWAREK, Agata. Effects of CuO nanoparticles on SAC composite solder joints: Microstructural and DFT study. In Journal of Materials Research and Technology, 2024-09-01, 32, pp. 609-620. ISSN 22387854. Dostupné na: <https://doi.org/10.1016/j.jmrt.2024.07.179>, Registrované v: SCOPUS
2. [1.2] MOUSA, M. M. - MOHAMMED, Moustafa M. - EL-KADY, Omyma A. - MOHAMED, H. S. Microstructure, hardness, electrical, and thermal conductivity of SZCN solder reinforced with TiO₂ and ZrO₂ nanoparticles fabricated by powder metallurgy method. In Journal of Materials Science Materials in Electronics, 2024-06-01, 35, 17, pp. ISSN 09574522. Dostupné na: <https://doi.org/10.1007/s10854-024-12758-3>, Registrované v: SCOPUS
3. [1.2] SKWAREK, Agata - CHOI, Halim - HURTONY, Tamás - BYUN, Jaeduk - MOHAMAD, Ahmad Azmin - BUŠEK, David - DUŠEK, Karel - ILLÉS, Balázs. Effects of ZrO₂ Nano-Particles' Incorporation into SnAgCu Solder Alloys: An Experimental and Theoretical Study. In Nanomaterials, 2024-10-01, 14, 20, pp. Dostupné na: <https://doi.org/10.3390/nano14201636>, Registrované v: SCOPUS
- ADMB21 ZÁPRAŽNÝ, Zdenko** - KORYTÁR, Dušan - JERGEL, Matej - HALAHOVETS, Yuriy - MAŤKO, Igor - ŠIFFALOVIČ, Peter - KEČKÉŠ, Jozef - MIKULÍK, P. - MAJKOVÁ, Eva - THI, T.N.T. Study of surface quality and subsurface damage of germanium optics produced by single point diamond nanomachining. In Proceedings of the SPIE : EUV and X-ray Optics: Synergy between Laboratory and Space VI, 2019, vol. 11032, no. 110320E. (2018: 0.238 - SJR). ISSN 0277-786X. Dostupné na: <https://doi.org/10.1117/12.2520970>
- Citácie:
1. [1.2] LAWING, Eann - TUNESI, Michele - ESTES, Colton - GASSON, John - DUTTERER, Brian S. - LUCCA, Don A. - DAVIES, Matthew A. Mechanics and surface characterization of high-speed diamond turning of germanium. In Procedia CIRP, 2024-01-01, 123, pp. 328-333. ISSN 22128271. Dostupné na: <https://doi.org/10.1016/j.procir.2024.05.058>, Registrované v: SCOPUS

Web of Science alebo SCOPUS

- ADNA01 KOPANI, Martin - MIKULA, Milan - KOSNAC, Daniel - GREGUS, Jan - PINČÍK, Emil. Morphology and FT IR spectra of porous silicon. In Journal of Electrical Engineering, 2017, vol. 68, no. 7, p. 53-57. (2016: 0.483 - IF, Q4 - JCR, 0.311 - SJR, Q2 - SJR). (2017 - WOS, SCOPUS). ISSN 1335-3632. Dostupné na: <https://doi.org/10.1515/jee-2017-0056>
- Citácie:
- [1.1] GUO, Bao - KANG, Hongjun - WANG, Xinzhi - DUAN, Yitong - LI, Xiaotong - GAO, Baiqi - WANG, Zhiqiang - LI, Yang - LU, Songtao - WU, Xiaohong. Maintaining solar cell efficiency realized by high-transparency dual-function SiO₂ coating with self-cleaning and dust removal. In SURFACE & COATINGS TECHNOLOGY, 2024, vol. 494, no., art. no. 131437. ISSN 0257-8972. Dostupné na: <https://doi.org/10.1016/j.surfcoat.2024.131437>, Registrované v: WOS
 - [1.1] PARK, Yun Hwan - KIM, Hyun Soo - CHOI, Jeong Sik - PARK, Jaewon - CHOI, Jong-Soon - CHOI, Yoon-E. Development of methylene blue imprinted silica for detecting arsenic ions in aqueous solution. In ENVIRONMENTAL ENGINEERING RESEARCH, 2024, vol. 29, no. 3, art. no. 230440. ISSN 1226-1025. Dostupné na: <https://doi.org/10.4491/eer.2023.440>, Registrované v: WOS
 - [1.2] YOUSIF, Islam N. - ABDULHAMEED, Ahmed T. - ESSMAT, Amenah M. - AHMED, Abdulrahman I. Unraveling the Influence of Hydrofluoric Concentration on the Morphology of Porous Silicon Surfaces Fabricated through Photochemical Etching using Sunlight. In Iraqi Journal of Applied Physics, 2024-01-01, 20, 3, pp. 565-568. ISSN 18132065., Registrované v: SCOPUS
 - [1.2] YOUSIF, Islam N. - ALI, Malak J. - TLAYEA, Ismael T. Study the Effect of Etching Time on the Morphology of Porous Silicon Surfaces Manufactured via Photochemical Etching. In Iraqi Journal of Applied Physics, 2024-01-01, 20, 3, pp. 557-560. ISSN 18132065., Registrované v: SCOPUS
- ADNA02 NAGY, Miroslav - SCADRON, M.D. - HITE, G.E. Pion nucleon coupling constant, Goldberger-Treiman discrepancy and $\pi N\sigma$ term. In Acta Physica Slovaca, 2004, vol. 54, no. 5, p. 427-432.
- Citácie:
- [1.1] ALEXANDROU, Constantia - BACCHIO, Simone - CONSTANTINOU, Martha - FINKENRATH, Jacob - FREZZOTTI, Roberto - KOSTRZEWA, Bartosz - KOUTSOU, Giannis - SPANOUEDES, Gregoris - URBACH, Carsten. Nucleon axial and pseudoscalar form factors using twisted-mass fermion ensembles at the physical point. In PHYSICAL REVIEW D, 2024, vol. 109, no. 3, art. no. 034503. ISSN 2470-0010. Dostupné na: <https://doi.org/10.1103/PhysRevD.109.034503>, Registrované v: WOS
- ADNA03 ŠVEC, Peter - SZEWCZYK, R. - SALACH, J. - JACKIEWICZ, D. - ŠVEC, Peter Jr. - BIENKOWSKI, A. - HOŠKO, Jozef. Magnetoelastic properties of selected amorphous systems tailored by thermomagnetic treatment. In Journal of Electrical Engineering, 2014, vol. 65, no. 4, p. 259-261. (2013: 0.420 - IF, Q4 - JCR, 0.187 - SJR, Q3 - SJR). (2014 - INSPEC, WOS, SCOPUS). ISSN 1335-3632. Dostupné na: <https://doi.org/10.2478/jee-2014-0040>
- Citácie:
- [1.1] FETISOV, Y. K. - SRINIVASAN, G. Nonlinear magnetoelectric effects in layered multiferroic composites. In JOURNAL OF APPLIED PHYSICS, 2024, vol. 135, no. 2, art. no. 024102. ISSN 0021-8979. Dostupné na: <https://doi.org/10.1063/5.0183351>, Registrované v: WOS
 - [1.1] KACHNIARZ, M. The Magnetoelastic Properties of Co-Based Amorphous

Alloy Under Torque Operation. In ACTA PHYSICA POLONICA A : 21st International Conference on Global Research and Education (Inter-Academia), 2024, vol. 146, no. 4, pp. 558-562. ISSN 0587-4246. Dostupné na: <https://doi.org/10.12693/APhysPolA.146.558>, Registrované v: WOS
3. [1.2] A. AZIM, Raheem Elsayed. A Review of Tunable Inductors for Power Electronics: Techniques and Applications. In E Prime Advances in Electrical Engineering Electronics and Energy, 2024-09-01, 9, pp. Dostupné na: <https://doi.org/10.1016/j.prime.2024.100655>, Registrované v: SCOPUS

ADNB Vedecké práce v domácich neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADNB01 BOHÁČ, Vlastimil**. Thermal properties of materials and their characterization by classic and transient methods. In MEASUREMENT 2017 : Proceedings of the 11th International Conference on Measurement, 2017, p. 53-62. ISBN 978-80-972629-0-7. Dostupné na: <https://doi.org/10.23919/MEASUREMENT.2017.7983535>
 Citácie:
1. [1.1] SUTRISNO, Himawan Hadi - AL FAIZAH, Farhah - SARI, Yunita - HUSAINI, Layla Najwa - AUDRYA, Anissa Intan. Enhanced Thermal Resistance of CFRP in Robotic Body Covering. In INTERNATIONAL JOURNAL OF MECHANICAL ENGINEERING AND ROBOTICS RESEARCH, 2024, vol. 13, no. 5, pp. 502-508. Dostupné na: <https://doi.org/10.18178/ijmerr.13.5.502-508>, Registrované v: WOS

AFC Publikované príspevky na zahraničných vedeckých konferenciách

- AFC01 AHARONOV, D. - HARROW, A.W. - LANDAU, Z. - NAGAJ, Daniel - SZEGEDY, M. - VAZIRANI, U. Local tests of global entanglement and a counterexample to the generalized area law. In Proceedings of 55th Annual IEEE Symposium on Foundations of Computer Science (FOCS). - New York : IEEE, 2014, p. 246-255. ISBN 978-1-4799-6517-5. ISSN 0272-5428. Dostupné na: <https://doi.org/10.1109/FOCS.2014.34>
 Citácie:
1. [1.1] ANSHU, Anurag - BREUCKMANN, Nikolas P. - NGUYEN, Quynh T. Circuit-to-Hamiltonian from Tensor Networks and Fault Tolerance. In PROCEEDINGS OF THE 56TH ANNUAL ACM SYMPOSIUM ON THEORY OF COMPUTING, STOC 2024 : 56th Annual ACM Symposium on Theory of Computing (STOC), 2024, vol., no., pp. 585-595. ISSN 0737-8017. Dostupné na: <https://doi.org/10.1145/3618260.3649690>, Registrované v: WOS
- AFC02 FRÖHLICH, Karol - MIČUŠÍK, Matej - DOBROČKA, Edmund - ŠIFFALOVIČ, Peter - GUCMANN, Filip - FEDOR, Ján. Properties of Al₂O₃ thin films grown by atomic layer deposition. In ASDAM 2012 : conference proceedings. Eds. Š. Haščík, J. Osvald. - Piscataway : IEEE, 2012, p. 171-174. ISBN 978-1-4673-1195-3. Dostupné na: <https://doi.org/10.1109/ASDAM.2012.6418575>
 Citácie:
1. [1.1] MAHLOUJI, Reyhaneh - ZHANG, Yue - VERHEIJEN, Marcel A. - KARWAL, Saurabh - HOFMANN, Jan P. - KESSELS, Wilhelmus M. M. - BOL, Ageeth A. Influence of High-κ Dielectrics Integration on ALD-Based MoS₂ Field-Effect Transistor Performance. In ACS APPLIED NANO MATERIALS, 2024, vol. 7, no. 16, pp. 18786-18800. Dostupné na: <https://doi.org/10.1021/acsanm.4c02214>, Registrované v: WOS
- AFC03 CHANG, I.T.H. - ŠVEC, Peter - GOGEBAKAN, M. - CANTOR, B. Rapidly

solidified Al₈₅Ni_{15-x}Y_x(x=5,8,10) alloys. In Materials Science Forum. Vol. 225: Metastable, mechanically alloyed and nanocrystalline materials. Proceedings of the Int. Symposium, ISMANAM-95. Editor R.Schulz. - Trans Tech Publ., 1996, p. 335-340. ISBN 978-0-87849-738-6.

Citácie:

1. [1.1] SAHU, Ashutosh - MAURYA, Ram Sajeevan - LAHA, Tapas. *Advances in Synthesis and Characterization of Aluminum-Based Amorphous Alloys: A Review. In ADVANCED ENGINEERING MATERIALS, 2024, vol. 26, no. 1. ISSN 1438-1656. Dostupné na: <https://doi.org/10.1002/adem.202301150>, Registrované v: WOS*

AFC04 ZIMAN, Mário - BUŽEK, Vladimír. Open system dynamics of simple collision models. In Quantum Dynamics and Information . Proceedings of 46th Karpacz Winter School of Theoretical Physics, February 8-13, 2010, Ładek Zdrój, Poland. Chapter 1. Quantum memories and Landauer's principle. - Singapore : World Scientific Publishing, 2011. ISBN 978-981-4317-43-6. Dostupné na: https://doi.org/10.1142/9789814317443_0011

Citácie:

1. [1.1] BAECKER, Charlotte - BEYER, Konstantin - STRUNZ, Walter T. *Local Disclosure of Quantum Memory in Non-Markovian Dynamics. In PHYSICAL REVIEW LETTERS, 2024, vol. 132, no. 6, art. no. 060402. ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.132.060402>, Registrované v: WOS*

2. [1.1] CUSUMANO, Stefano - DE CHIARA, Gabriele. *Structured quantum collision models: generating coherence with thermal resources. In NEW JOURNAL OF PHYSICS, 2024, vol. 26, no. 2, art. no. 023001. ISSN 1367-2630. Dostupné na: <https://doi.org/10.1088/1367-2630/ad202a>, Registrované v: WOS*

AFG Abstrakty príspevkov zo zahraničných konferencií

AFG01 SAHOO, Prangya Parimita - GÜNEREN, Alper - HUDEC, Boris - MIČUŠÍK, Matej - LENČEŠ, Zoltán - SIFFALOVIC, P. - FRÖHLICH, Karol. Improved properties of Li-ion battery electrodes protected by Al₂O₃ and ZnO ultrathin layers prepared by atomic layer deposition. In ECS Meeting Abstracts, 2022, vol. MA2022-02, art. no. 1136. ISSN 2151-2043.

Citácie:

1. [1.1] SALIMI, P. - GOTTARDI, G. - MORAIS, W.G. - BARTALI, R. - LAIDANI, N. - MACCHI, E.G. *Improving Lithium-Ion Battery Performance: Nano Al₂O₃ Coatings on High-Mass Loading LiFePO₄ Cathodes via Atomic Layer Deposition. In BATTERIES-BASEL. ISSN 2313-0105, SEP 2024, vol. 10, no. 9, art. no. 304. Dostupné na: <https://doi.org/10.3390/batteries10090304>, Registrované v: WOS*

BDF Odborné práce v ostatných domácich časopisoch

BDF01 VRŠANSKÝ, Peter**. Late Mesozoic cockroaches s. l. from the Karabastau Formation in Kazakhstan. Rec. Hemen Sendi, Martin Česanek. 1. vyd. Bratislava : Amba projekty, 2024. 700 s., Vol. 14, no. 1. Dostupné na internete: https://geo.sav.sk/files/vrsansky/Vrsansky_2024.pdf

Citácie:

1. [1.1] XIA, Shuang - SENDI, Hemen - ZHANG, Xiaofang - XIAO, Chuantao - LUO, Cihang. *A new cockroach Maculosala circularis gen. et sp. n. (Blattaria: Corydiidae) from mid-Cretaceous Kachin amber of northern Myanmar. In*

PALAEONTOGRAPHICA ABTEILUNG A-PALAOZOOLOGIE-STRATIGRAPHIE,
2024, vol. 329, no. 1-2, pp. 9-18. ISSN 0375-0442. Available on:
<https://doi.org/10.1127/pala/2024/0155>, Registrované v: WOS

Príloha A-4

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Mgr. Andrej Gendiar, PhD.

Názov semestr. predmetu: Kvantové simulácie a výpočty (FMFI.KTF/3-FTM-207/22)

Počet hodín za semester: 13

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Fakulta matematiky, fyziky a informatiky

Ing. Vojtech Nádaždy, CSc.

Názov semestr. predmetu: Nanotechnologie

Počet hodín za semester: 4

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Inštitút nukleárneho a fyzikálneho inžinierstva

doc. RNDr. Martin Plesch, PhD.

Názov semestr. predmetu: Mechanika

Počet hodín za semester: 6

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra fyziky FPV

doc. RNDr. Martin Plesch, PhD.

Názov semestr. predmetu: Práca s nadanými študentmi

Počet hodín za semester: 2

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra fyziky FPV

doc. RNDr. Martin Plesch, PhD.

Názov semestr. predmetu: Termodynamika a štatistika

Počet hodín za semester: 5

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra fyziky FPV

Semestrálne cvičenia:

Semináre:

Terénne cvičenia:

Individuálne prednášky:

prof. Ing. Štefan Luby, DrSc.

Názov semestr. predmetu: Prednáška elektronické nosy a diskusné fórum

Počet hodín za semester: 3

Názov katedry a vysokej školy: Žilinská univerzita v Žiline, Katedra fyziky

Príloha A-5

Medzinárodná mobilita organizácie

(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Belgicko					Vladimír Bužek	6
					Andrej Herzán	4
					Vladislav Matoušek	4
Brazília					Natalia Salomé Móller	25
Fínsko	Andrej Herzán	6			Magdaléna Šolcová	86
Francúzsko					Andrej Gendiar	5
					Adriana Hvizdošová Annušová	3
					Adriana Hvizdošová Annušová	3
					Martin Plesch	4
Japonsko					Andrej Gendiar	13
					Roman Krčmár	13
Nemecko					Denis Kochan	6
					Denis Kochan	5
					Yuriy Plevachuk	5
Švajčiarsko	Andrej Herzán	3			Andrej Herzán	3
Taiwan					Denis Kochan	9
					Denis Kochan	9
					Denis Kochan	9
					Denis Kochan	85
Taliansko					Andrej	5

					Herzáň	
					Yuriy Plevachuk	13
Ukrajina					Taras Kavetskyy	36
					Taras Kavetskyy	40
Počet vyslaní spolu	2	9			23	391

(B) Prijatie vedeckých pracovníkov zo zahraničia na základe dohôd:

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Počet prijatí spolu						

(C) Účasť pracovníkov pracoviska na konferenciách v zahraničí (nezahrnutých v "A"):

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Francúzsko	Engine 2025 Winter School	Poongodi Ayyanusamy	7
	ICOQC2025	Ijaz Ahamed Mohammad	8
		Ijaz Ahamed Mohammad	8
	Konferencia Aquemics	Andrej Gendiar	5
		Azadeh Ghannadan	5
		Matej Moško	5
	Quantum Matter International Conference - QUANTUMa	Saeid Salari	5
Grécko	QCI Days 2025	Younes Benamara	5
		Mária Surovcová	4
Holandsko	Prvý workshop WE Heraeus-Lorentz	Denis Kochan	8
		Ivan Andreevič Kovalev	8
Japonsko	ICPA20	Taras Kavetskyy	14
		Ondrej Šauša	14
	IPERO25	Nad'a Mrkývková	8
Nemecko	834. Heraeus Seminar	Denis Kochan	5
	88th Annual Conference of the DPG and DPG Spring M	Konrad Jan Szymański	6
	Free Fall of Quantum at ZARM	Natalia Salomé Móller	4
Rakúsko	Anton Zeilinger Birthday Symposium	Vladimír Bužek	4
Turecko	Conference BIOMATSEN 2025	Taras Kavetskyy	36
Veľká Británia	NuPECC meeting	Martin Venhart	2

Spolu	14	20	161

Vysvetlivky: MAD - medziakademické dohody, KD - kultúrne dohody, VTS - vedecko-technická spolupráca v rámci vládnych dohôd

Skratky použité v tabuľke C:

834. Heraeus Seminar - 834. Heraeus Seminar

88th Annual Conference of the DPG and DPG Spring M - 88th Annual Conference of the DPG and DPG Spring Meeting

Anton Zeilinger Birthday Symposium - Anton Zeilinger Birthday Symposium

Conference BIOMATSEN 2025 - 10th BIOMATSEN 2025

Engine 2025 Winter School - Engine 2025 Winter School

Free Fall of Quantum at ZARM - Free Fall of Quantum at ZARM

ICOQC2025 - International Conference on Quantum Computing

ICPA20 - 20th International Conference of Positron Annihilation

IPERO25 - IPERO25

Konferencia Aquumics - International conference: Advanced Quantum Materials for Magnetic Cooling and Quantum Information Science

NuPECC meeting - NuPECC meeting

Prvý workshop WE Heraeus-Lorentz - Prvý workshop WE Heraeus-Lorentz

QCI Days 2025 - QCI Days 2025

QCI Days 2025 - Conference QCI Days 2025

Quantum Matter International Conference - QUANTUMa - Quantum Matter International Conference - QUANTUMatter 2025

Príloha A-6

Vedecko-popularizačná činnosť pracovníkov organizácie

Meno	Spoluautori	Typ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok

¹ PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédiá, DO - dokumentárny film

Príloha A-7

Vyznamenania, ceny a iné ocenenia udelené organizácii a jej pracovníkom v roku 2025

Domáce ocenenia

Ocenenia SAV

Majková Eva

Zlatá medaila SAV

Oceňovateľ: VR SAV

Mrkývková Nad'a

OCENENIE ŠPIČKOVÝCH PUBLIKÁCIÍ

Oceňovateľ: SAV

Opis: Pizza Oven Processing of Organohalide Perovskites (POPOP): A Simple, Versatile and Efficient Vapor Deposition Method *Advanced Energy Materials*, Vol. 14, no. 10 (2024), art. no. 2303423

Iné domáce ocenenia

Hvizdošová Annušová Adriana

Cena M. R. Štefánika 2025

Oceňovateľ: Ministerstva školstva, vedy, výskumu a športu SR; Francúzske veľvyslanectvo na Slovensku

Opis: diplom za najväčší prínos v oblasti bilaterálnej francúzsko-slovenskej vedeckej spolupráce

Luby Štefan

Cena Fides et Ratio

Oceňovateľ: Konfrenca biskupov Slovenska

Opis: Medaila priemeru 7 cm, diplom

Luby Štefan

Cena Literárneho fondu za knihu 40. výstupov na Olymp

Oceňovateľ: Literárny fond SR

Opis: Diplom

Luby Štefan

Pamätný list časopisu Quark pri jeho 30. výročí

Oceňovateľ: Časopis Quark

Opis: Diplom

Švec Peter

Cena za vedu

Oceňovateľ: Slovenská fyzikálna spoločnosť

Opis: pamätná plaketa za vedecký prínos vo fyzike

Venhart Martin

Medaila SFS

Oceňovateľ: Slovenská fyzikálna spoločnosť

Opis: medaila ako ocenenie celkového prínosu pre fyziku na Slovensku

Medzinárodné ocenenia

Uvádzajte v štruktúre: názov ocenenia, udeľujúca inštitúcia, meno a priezvisko ocenenej osoby.