Fyzikálny ústav SAV, v. v. i.

Výročná správa o činnosti a hospodárení za rok 2025

Bratislava
január 2026

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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 Herzáň, 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.
Adresa: Dúbravská cesta 9, 845 11 Bratislava 45

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E-mail: secretary.fusav@savba.sk

Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

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

Vedúci organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

- **Spoločné pracovisko ElÚ 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] odmeňovaní podľa 553/2003 Z.z., príloha č. 5
[2] odmeňovaní podľa 553/2003 Z.z., príloha 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	14273	14273	24704	20636	-	-
2. Projekty APVV	13	10	-	-	82919	30485	-	24060
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 organi-záciu	Spolu	Pre organi-záciu		
1a. Projekty Horizont 2020	0	0	-	-	-	-	-	-
1b. Projekty Horizont Európa	2	0	-	-	-	-	-	-
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 Excelence, TANDEM	0	0	-	-	-	-	-	-
10. Iné projekty	0	2	-	-	-	-	-	-

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 vákouvou 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. Doplňujúco sme použili molekulovú pasiváciu pomocou tiénových katiónov, 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)?PbI?, 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.

- 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

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

- 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

- 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

- V. Held, N. Mrkyvkova, Y. Halahovets, P. Nádaz?dy, 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 hustotov 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.

-

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/smtd.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 (Chille)
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 =? → K+K− / K0L K0S?
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=φ →k+K-/ KL0 KS0? 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)	**89 / 5**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**16 / 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) *Počet článkov / doplnky*	41 / 0	34 / 5	19 / 0	1 / 0	95 / 5
Podľa SJR z r. 2024 (zdroj Scimago) *Počet článkov / doplnky*	48 / 3	39 / 2	7 / 0	5 / 0	99 / 5

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2024/ doplnky z r. 2023
Citácie vo WOS (1.1, 2.1)	3509 / 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

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
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
Spolu	**0**	**0**	**21**	**0**	**0**	**0**	**1**

2.11. Iné informácie k vedecko-výskumnej činnosti.

Na ústave beží niekoľko vlastných projektových schém. Aktivity úspešných štipendistov ako aj prehľad ich dosiahnutých výsledkov sú zverejňované na webstránke organizácie v časti „Veda a výskum“.
Bežiace 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 – Trojkráľová 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
Gejdoš Janotová Irena	0	0	1
Janičkovič Dušan	0	0	1
Luby Štefan	1	0	0
Maťko Igor	0	1	0
Plevachuk Yuriy	1	0	0
Švec Peter	1	0	2
Švec Jr. Peter	0	1	0
Spolu	3	2	4

3.2. Členstvo a funkcie v medzinárodných orgánoch

3.2.1. Členstvo a funkcie v medzinárodných vedeckých spoločnostiach, úniách a národných komitétoch 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 společnost (funkcia: člen)

RNDr. Naďa 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 Štofanik, PhD.

IEEE-UFFC (funkcia: člen)
URSI (funkcia: člen)

Ing. Peter Švec, DrSc.

Československá mikroskopická spoločnosť (funkcia: člen)
Intl. Advisory Committe on Rapid Quenching (funkcia: member)
IUPAP (funkcia: vicechair, Comission 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. Účasť 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

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 práca 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
Zadávateľ 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	Mesiac,	Mesiac,	Číslo a názov	Meno a	Fakulta

doktoranda	DŠ	rok nástupu na DŠ	rok obhajoby	študijného odboru	organizácia školiteľa	udeľujúca vedeckú hodnosť
Mgr. Lukáš Holka	interné štúdium hradené 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 hradené 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 hradené 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 hradené 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 hodnosť

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	Zahraniční 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

Zahraniční 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	2	0	0	0
Celkový počet hodín v r. 2025	7	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**	2
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	5
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	1
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	1
5.	**Počet oponovaných dizertačných a habilitačných prác**	1
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	1
7.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác**	1
8.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác**	2
9.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách**	0

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 ?zmir, Turkey
Oblasť spolupráce: Termofyzikálne vlastnosti uhlíkových nanorúrok vypĺňajúcich 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 ďaľší 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, topoľ 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 kontaktového 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 sakalných obydlí 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 ďaľší 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, topoľ 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 kontaktového 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 nepárnym 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, Bratsialva
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. Naďa Mrkývková, 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 VaI	člen
Ing. Peter Švec, DrSc.	Atestačna 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

Názov expertízy: Posudok na navrh projektu VEGA
Adresát expertízy: Agentura VEGA, komisia 5
Spracoval: Ing. Vojtech Nádaždy, CSc.
Stručný opis: Vypracovanie vstupneho posudku na navrh projektu

Názov expertízy: Posudok na navrh projektu
Adresát expertízy: Agentura VEGA, komisia 7
Spracoval: Ing. Vojtech Nádaždy, CSc.
Stručný opis: Vypracovanie vstupneho posudku na navrh projektu

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.

- Akreditačná komisia SAV (členka)
- Bytová komisia SAV (členka)
- Komisia pre transformáciu SAV (členka)
- Legislatívna komisia SAV (členka)

Ing. Matej Jergel, DrSc.

- Komisia SAV pre vyhodnocovanie medzinárodných projektov (člen)

Ing. Peter Švec, DrSc.

- 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 Maťko, 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 Excelence, 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. Naďa Mrkývková, PhD. (podpredsedkyňa)
- Ing. Irena Gejdoš Janotová, PhD.
- Mgr. Martin Venhart, PhD.
- Ing. Marián Deanko, PhD. (Vacuumschmelze, s. r. o.)
- Mgr. Martin Ličtjak, 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 zakladateľa

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, 15.1.2026

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 Herzáň, 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 Travěnec, CSc.	100	1.00
39.	RNDr. Robert Turanský, PhD.	80	0.80
40.	Mgr. Karol Végsö, 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 Štofanik, 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 Klbik	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 Váleková	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 Kavetskyy, 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 hradení z prostriedkov 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 Neelanarayanan	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
10.	MSc. Samgeeth Puliyil	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 hradení 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			
organizácia nemá externých doktorandov			

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.) Germánium 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 elektrostatiských 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:	-

Dosiahnuté výsledky:

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:	-

Dosiahnuté výsledky:

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.) Sieť 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:	-

Dosiahnuté výsledky:

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 koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
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 koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
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- -> D barD. Spoločný výsledod 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, najme B0 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 koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

4.) Kvantové simulácie a modelovanie interakčých 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 Herzáň

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 nanostrutured 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. Nízkoteplotná 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, rtg difrakcia, rastrovacia a transmisná elektrónové mikroskopie) 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 prekurzorov *(Carbon-based particulate micro- and mesoporous materials from natural precursors)*

Zodpovedný riešiteľ:	Igor Maťko
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:	-

Dosiahnuté výsledky:

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	áno

koordinátorom projektu:	
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 Végsö
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 nízkoteplotnej 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 interaciami medzi najbližšími susedmi. Pre kulombovské systémy s modulovaným povrchovým nábojom bol dokázaný teorém spájajuci 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 spájok *(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:	-

Dosiahnuté výsledky:

18.) Implementácia konceptu substitúcie HEA atómov pri vývoji nových materiálov pripravených rôznymi ochladzovacími a žíhacími 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:	-

Dosiahnuté výsledky:

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-asociovanej 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 inštitúcií:	0
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 navrhnutej 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 koordinátorom projektu:	nie
Koordinátor:	Slovenská technická univerzita v Bratislave - Fakulta elektrotechniky a informatiky
Počet spoluriešiteľských inštitúcií:	0
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 koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Francúzsko: 2
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 hydrogélov 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 fotovoltaiku *(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 skmúmali

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:	Naďa Mrkývková
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:	-

Dosiahnuté výsledky:

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 zameral na experimentálnu charakterizáciu kinetiky nukleácie a rastuy lítia na čistých medených kolektoroch v porovnaní s meďou 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 fúznych reaktoroch.

33.) Mikrokapsuly na báze alginátu so zvýšenou stabilitou a biokompatibilitou pre enkapsuláciu pankreatických ostrovčekov 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 koordinátorom projektu:	nie
Koordinátor:	Ústav polymérov SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
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 organizácii SAV:	Peter Šiffalovič
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0111
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum pre využitie pokročilých materiálov SAV, v. v. i.

Počet spoluriešiteľských inštitúcií:	0
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 tuholátkových 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 koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
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/LPSCl/InLi, pričom časovo rozlíšené XRD záznamy boli porovnané s referenčnými dátami zo synchrotónu. 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:	-

Dosiahnuté výsledky:

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:	-

Dosiahnuté výsledky:

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 koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
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 koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
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 koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
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:

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.) Štipendiá 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	áno

koordinátorom projektu:	
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.) Štipendiá 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:

Príloha A-3

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 Sr2CrBiO6: 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 SbXO3 (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 ANLu3 (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 Al10V: 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 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

ADCA08 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 - ŠIFFALOVIČ, 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

ADCA09 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

ADCA10 BERONSKÁ, Naďa - 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

ADCA11 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

ADCA12 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

ADCA13 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:

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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

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1. [1.1] GUAN, Qilong - HANG, Chunjin - ZHANG, Wei - LI, Shengli - TANG, Xiaojiu - 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

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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

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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

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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

ADNA Vedecké práce v domácich impaktovaných časopisoch registrovaných v databázach 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

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1. [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

2. [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
3. [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
4. [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 πNσ term. In Acta Physica Slovaca, 2004, vol. 54, no. 5, p. 427-432.

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1. [1.1] ALEXANDROU, Constantia - BACCHIO, Simone - CONSTANTINOU, Martha - FINKENRATH, Jacob - FREZZOTTI, Roberto - KOSTRZEWA, Bartosz - KOUTSOU, Giannis - SPANOUDES, 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

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1. [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
2. [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

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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

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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 Al85Ni15-xYx(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, Ladek Zdroj, 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 - LENČÉŠ, 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:

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

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 Herzáň	4
					Vladislav Matoušek	4
Brazília					Natalia Salomé Móller	25
Fínsko	Andrej Herzáň	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 Herzáň	3			Andrej Herzáň	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 Aqumics	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	Naďa 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 Aqumics - International conference: Advanced Quantum Materials for Magnetic Cooling and Quan-tum 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	Typ[1]	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

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: Konfrencia 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
Pamätmý 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.