Fyzikálny ústav SAV, v. v. i.

Výročná správa o činnosti a hospodárení za rok 2024

Bratislava
február 2025

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Fyzikálny ústav SAV, v. v. i.

Výročná správa o činnosti organizácie za rok 2024

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.
Člen Snemu SAV: RNDr. Katarína Gmucová, CSc.
Adresa: Dúbravská cesta 9, 845 11 Bratislava 45

https://www.fu.sav.sk

Tel.: +421-2-59410 501
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**
  Jana Zvončeková

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	114	82	32	14	7	114	78.49	51.42	4.2
Vedeckí pracovníci	72	62	10	3	1	72	55.24	49.22	1
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	21	16	5	11	3	21	5.52	2.2	0
Odborní pracovníci VŠ (ostatní zamestnanci[2])	11	0	11	0	3	11	8.46	0	3.2
Odborní pracovníci ÚS	9	3	6	0	0	9	8.27	0	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 31.12.2024 (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 31.12.2024 (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 31.12.2024)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	13	51	5	5	13	38	11
Ženy	1	11	0	0	1	6	3

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	3	0.1	6	2.9	6	4.6	8	6.7	11	7.5	3	2.1	2	1.2	10	9.2	13	11.4
Ženy	2	0.1	1	1.0	4	2.0	1	1.0	0	0.0	0	0.0	0	0.0	0	0.0	3	2.2

A - Prepočet bez zohľadnenia úväzkov zamestnancov
B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2024

	Kmeňoví zamestnanci	**Vedeckí pracovníci**	**Riešitelia projektov**
Muži	50.2	53.3	51.8
Ženy	46.0	47.1	45.4
Spolu	49.0	52.5	50.9

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 2024

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		
1. Projekty VEGA	14	3	144500	140534	2134	24545	8286	-
2. Projekty APVV	9	11	-	-	192268	208539	-	103137
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	7	0	-	-	285241	285271	-	-
4. Projekty SASPRO, MoRePro, IMPULZ	4	0	154986	275850	-	-	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	3	0	-	-	114000	114000	-	-

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2024

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2024	Bratislava	5	-
2. Projekty výziev EŠIF podané r. 2024	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2024

Tabuľka 2c Medzinárodné projekty riešené v roku 2024

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		
1. Projekty Horizont 2020 a Horizont Európa	2	0	-	-	85910	85910	-	-
2. Projekty ERA.NET, ESA, JRP	1	0	-	10416	-	-	-	-
3. Projekty COST	1	2	-	2000	-	-	2500	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	1	-	-	-	1102328	5391	17055
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	1	0	-	1500	-	-	-	-
7. Bilaterálne projekty ostatné	2	0	-	45666	-	-	-	-
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	1	0	-	-	-	1190572	-	-
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	-	-	-	-	-	-
10. Iné projekty	0	2	-	-	-	-	10274	-

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2024

Tabuľka 2d Počet projektov Horizont Európa v roku 2024

	A	B
Počet podaných projektov Horizont Európa	1	1

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 2025:

- Štipendiá pre talentovaných študentov v prepojení na Plán obnovy a odolnosti SR
- Partnerstvá Horizont Europa
- Podpora digitálnej ekonomiky RIS3
- Rozvoj konceptu otvorenej výskumnej infraštruktúry SAV pre aplikovaný výskum v podmienkach SR
- Výskum a vývoj post-kvantových šifrových algoritmov – Prvá etapa

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2024

2.3.1. Výsledky na báze základného výskumu

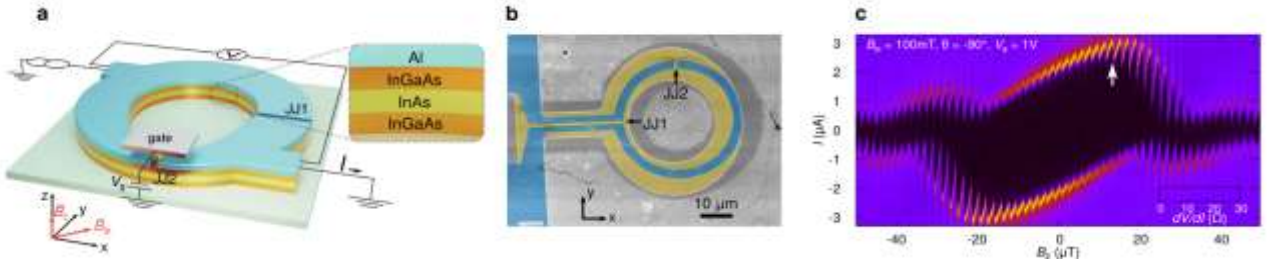
Názov: Význam supravodivých diód pre aplikácie

Autori: Denis Kochan a kol. (IMPULZ)

Abstrakt: Supravodivé diódy sú potenciálne prielomovou technológiou pre klasické a kvantové výpočty (supravodivé q-bity), magnetometriu (SQUIDs), ako aj pre vysokorýchlostnú elektroniku, ktoré si vyžadujú integráciu kryogénnych procesorov na spracovanie a konverziu RF a AC signálov, napr. v astronomických jednofotónových detektoroch (napr. Mid-Infrared Instrument v teleskope Jamesa Webba), v optoelektronických neurónových sietiach, či v detektoroch a urýchľovačoch ktoré skúmajú zákonitosti fyziky vysokých energií.

V článkoch sme študovali, ako sa pomocou tzv. gate-controllingu dajú meniť spin-orbitálne vlastnosti jedného Josephsonového spoja, a takto priamo ovplyvňovať správanie sa celkového superprúdu v supravodivom kvantovo-interferenčnom obvode (po anglicky SQUID, superconducting quantum interference device). „V rámci experimentu sme zistili, že existuje kauzálna súvislosť medzi dvoma efektami; efektom supravodivej diódy — t. j. ako veľkosť superprúdu závisí od smeru, ktorým tečie, a anomálnym Josephsonovým javom, ktorý popisuje závislosť medzi prúdom a fázovým rozdielom," popisuje D. Kochan, „Zistili sme, že veľkosť superprúdu v závislosti od smeru, ktorým tečie, nezávisí iba od fázového rozdielu medzi dvoma supravodičmi, ale aj od istého anomálneho príspevku, ktorého veľkosť spätne definuje účinnosť supravodivej diódy. "

Autori zistili a vysvetlili, že gate-controling priamo ovplyvňuje veľkosť spin-orbitálnej väzby, ktorá následne ovplyvňuje to, ako sa páruju spiny a hybnosti elektrónov v Cooperových pároch. To ma za následok generovanie anomálneho fázového rozdielu, t. j. anomálny Josephsonov jav, ako aj rôzne veľkosti superprúdu v jednom a druhom smere, t. j. diódovy efekt. Výsledky naznačujú, že supravodivé diódy integrované v supravodivých AC-to-DC konektoroch môžu mať významné aplikácie v kvantových technológiách, komunikácii, nanoelektronike, fotodetekcii, optoelektronike či fyzike vysokých energií atď.



Obr. (a) Asymetrické SQUID zariadenie. Schematické znázornenie zariadenia. SQUID pozostáva z veľkého josephsonovského spoja (JJ1) a malého josephsonovského spoja (JJ2), ktorý je spojený s hradlom. Priložením magnetického poľa pozdĺž y-osi sa v JJ2 indukuje anomálny fázový posun φ0, ktorý možno riadiť elektrostatickým hradlom (gate-controling), (b) Snímka zariadenia získaná pomocou skenovacej elektrónovej mikroskopie urobená pred inštaláciou elektrostatického hradla nad JJ2. Nedotknuté supravodivé Al/InAs vodiče sú zvýraznené tyrkysovou farbou, oblasti, kde je selektívne nanesený hliník, sú znázornene žltou, (c) Farebný graf znázorňuje diferenciálny odpor SQUID-u pri teplote 40 mK v závislosti od magnetického poľa Bz aplikovaného v smere z-osi, SQUIDo-m tečie prúdu I, a JJ2 spoj je penetrovaný rovinným magnetickým poľom By =-100mT. Biela šípka označuje miesta, kde boli namerané anomálne fázové posuny.

1. Benedikt Scharf, Denis Kochan, Alex Matos-Abiague: Superconducting Diode Effect in Quantum Spin Hall Insulator-based Josephson Junctions, Phys. Rev. B 110, 134511 (2024).
2. Simon Reinhardt, Tim Ascherl, Andreas Costa, Johanna Berger, Sergei Gronin, Geoffrey C. Gardner, Tyler Lindemann, Michael J. Manfra, Jaroslav Fabian, Denis Kochan, Christoph Strunk, Nicola Paradiso: Link between supercurrent diode and anomalous Josephson effect revealed gate-controlled interferometry, Nature Communications 15, 4413 (2024).

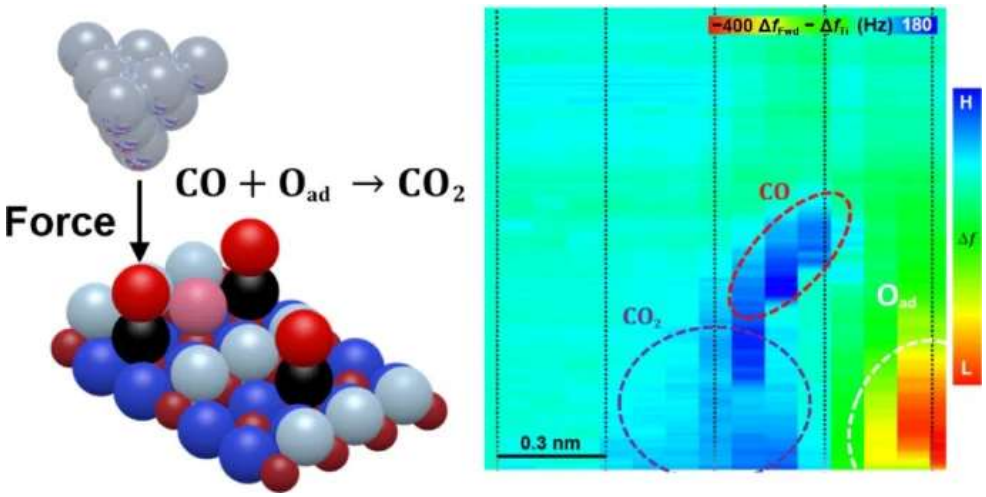
2.3.2. Výsledky aplikačného typu

Názov: Mechano katalýza CO na CO2 povrchu TiO2 aktivovaná na atomárnej škále

Autori: Robert Turanský, Ivan Štich a kol. (APVV-21-0272, VEGA-2/0070/21, VEGA-2/0125/20, VEGA-2/0131/23, H2020 TREX GA No. 952165)

Abstrakt: Štúdia sa zaoberala mechanochemickou katalýzou oxidácie oxidu uhoľnatého (CO) na oxid uhličitý (CO2) na oxidovanom povrchu rutile TiO2, pričom reakcia bola aktivovaná mechanickou silou pomocou hrotu atómovej silovej mikroskopie (AFM). Úspešnou aktiváciou bola pozorovaná reakcia CO na CO2 pri veľmi malých vzdialenostiach medzi hrotom AFM a vzorkou. Aktivácia prebiehala prostredníctvom torzného pohybu molekuly CO smerom k adatómu kyslíka (Oad). Použitie AFM a Kelvinovej silovej mikroskopie (KPFM) umožnilo štúdium reakcie pri ultranízkych teplotách a vo vysokom vákuu. Merenia odhalili hysterézne správanie frekvenčného posunu, čo potvrdilo reverzibilitu reakcie. Hustotná funkcionálna teória bola použitá na modelovanie reakcie, pričom ukázala, že reakcia vyžaduje redistribúciu náboja medzi CO a Oad. Zistilo sa, že kyslíkový adatóm musí byť v aktívnejšom oxidačnom stave (Oad^{-}) na umožnenie reakcie. Hrot AFM nielenže mechanicky inicioval reakciu, ale aj znížil aktivačné bariéry potrebné

na jej priebeh. Katalytická aktivita bola ovplyvnená vzdialenosťou a silou medzi hrotom a povrchom. Tieto výsledky otvárajú nové možnosti pre vývoj katalytických procesov na kovových oxidových povrchoch riadených mechanickými silami na atómovej úrovni.



Obr. Schéma mechanochemickej katalytickej reakcie.

1. ADACHI, Yuuki - TURANSKÝ, Robert - BRNDIAR, Ján - TOKÁR, Kamil - ZHU, Qiang - WEN, Huan Fei - SUGAWARA, Yasuhiro - ŠTICH, Ivan - LI, Yanjun. Mechanocatalysis of CO to CO2 on TiO2 surface controlled at atomic scale. Nano Research, vol. 17, no. 7, p. 5826-5834 (2024).

2.3.3. Výsledky na báze medzinárodnej spolupráce

Názov: Flexibilné fotodetektory na báze halidových perovskitov

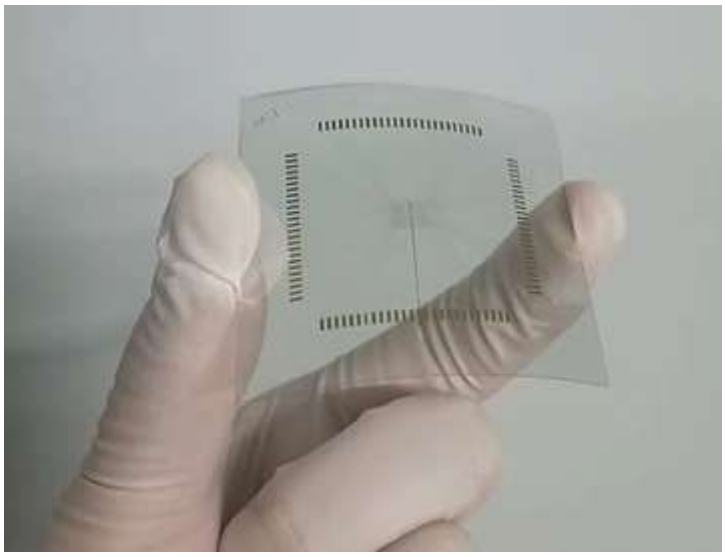
Autori: Naďa Mrkývková a kolektív autorov OMN (APVV-21-0297)

Partneri projektu:

- Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP), UMR8247, 11 rue P. et M. Curie, F-75005 Paris, France
- Sorbonne Université, CNRS, Institut de NanoSciences de Paris, INSP, F-75005 Paris, France

Abstrakt: Metalohalidové perovskity sa v súčasnosti radia medzi veľmi sľubné materiály pre vysoko výkonné fotodetektory (FD) vďaka ich vynikajúcim optoelektronickým vlastnostiam. Náš výskum sa zameriava na vývoj stabilných a efektívnych perovskitových FD pre rôzne aplikácie, vrátane optických komunikácií a snímania obrazu. Konkrétne sme skúmali niekoľko stratégií na zlepšenie výkonu zariadení, ako je napríklad inkorporácia zlatých nanočastíc na zlepšenie kvality perovskitových kryštálov a použitie aditív, ako je iodid n-propylamónium a chlorid formamidínium, na pasiváciu defektov. Tieto prístupy viedli k významnému zlepšeniu kľúčových výkonových parametrov, ako je citlivosť, čas odozvy a pomer zapnutého/vypnutého prúdu. Vyvinuté FD vykazujú vynikajúcu dlhodobú stabilitu za ambientných podmienok, čo je kľúčové pre použitie aplikácií v praxi. Podarilo sa nám úspešne integrovať perovskitové FD do optických komunikačných systémov, čím sa umožnil prenos optických signálov. Okrem toho sme vyrobili flexibilné polia perovskitových FD na substrátoch ako polyetylén tereftalát (PET), ktoré sa v budúcnosti môžu využívať v nositeľných a ohybných zariadeniach. Takéto flexibilné polia vykazujú

vysokú citlivosť, detektivitu a rýchle časy odozvy, čo ich robí vhodnými pre aplikácie snímania obrazu s vysokým rozlíšením. Tieto pokroky otvárajú cestu pre vývoj optoelektronických zariadení novej generácie na báze perovskitov s širokým využitím v oblastiach ako komunikácia, zobrazovanie a snímanie.



Obr. Fotografia poľa fotodetektorov o veľkosti 10×10 pixelov na flexibilnom substráte.

1. T. Wang, D. Zheng, K. Vegso, G. Baillard, P. Nadazdy, N. Mrkyvkova, P. Siffalovic, Y. Chen, L. Coolen, T. Pauporte, F. Feng: A dual strategy to enhance the photoelectric performance of Perovskite-Based photodetectors for potential applications in optical communications. Chem. Eng. Journal 2024, 488, 151068. DOI: 10.1016/j.cej.2024.151068
2. T. Wang, D. Zheng, K. Vegso, N. Mrkyvkova, P. Siffalovic, X. Yuan, M. G. Somekh, L. Coolen, T. Pauporte, F. Fu: Flexible array of high performance and stable formamidium-based low-n 2D halide perovskite photodetectors for optical imaging. Nano Energy 2023, 116, 108827. DOI: 10.1016/j.nanoen.2023.108827
3. T. Wang, D. Zheng, K. Vegso, N. Mrkyvkova, P. Siffalovic, T. Pauporte: High-Resolution and Stable Ruddlesden–Popper Quasi-2D Perovskite Flexible Photodetectors Arrays for Potential Applications as Optical Image Sensor. Adv. Funct. Mater. 2023, 2304659. DOI: 10.1002/adfm.202304659

Ďalšie prihlásené výsledky:

1. **Názov:** Kandidátsky toroidný elektrický dipólový režim v sférickom jadre ^{58}Ni,
   Autori: Anton Repko a kol. (OJF)
   Publikácia: P. von Neumann-Cosel et al. Phys. Rev. Lett. 133, 232502 (2024). DOI: 10.1103/PhysRevLett.133.232502

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2024/ doplnky z r. 2023
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)	**1 / 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)	**2 / 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)	**105 / 1**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**25 / 1**
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	**0 / 0**
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	**4 / 2**
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	**0 / 0**
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	**0 / 0**
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	**5 / 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)	**2 / 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. 2023 (zdroj JCR) *Počet článkov / doplnky*	48 / 0	46 / 0	15 / 1	8 / 0	117 / 1
Podľa SJR z r. 2023 (zdroj Scimago) *Počet článkov / doplnky*	71 / 0	32 / 1	14 / 1	13 / 0	130 / 2

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2023/ doplnky z r. 2022
Citácie vo WOS (1.1, 2.1)	3142 / 1
Citácie v SCOPUS (1.2, 2.2)	94 / 1
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)	3 / 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	47
Prednášky a vývesky na národných vedeckých podujatiach	5

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

MSc. Djeylan Aktas, PhD.

- 24. 4. 2024, Bristol Quantum Information Technologies, Bristol, United Kingdom, „Development of Slovak national quantum communication infrastructure“
- 19. 11. 2024, EQTC 2024, Lisbon, Portugal, „An entanglement-based quantum network test-bed for QKD applications“

doc. Mgr. Denis Kochan, PhD.

- 13. 6. 2024, From Solid State to Biophysics XI, Cavtat, Croatia, „Magnetoelectric phenomena of non-centrosymmetric superconductors“
- 16. 7. 2024, WE-Heraeus-Seminar: From Fundamentals to the Future: Advancing Functionalities of Two-Dimensional Quantum Materials, Tutzing, Germany, „Magnetoelectric phenomena of non-centrosymmetric superconductors“

Yuriy Plevachuk

- 19. — 21. 6. 2024, 29th International Conference on Applied Physics of Condensed Matter (APCOM 2024), Hotel Patria, Štrbské Pleso, Slovakia, „Effect of Laser Processing Modes on Selective Laser Melting of Fe86B14 Amorphous Alloys“, coauthors: Ihor Shtablavyi, Stepan Mudry, Yuriy Kulyk, (S), Peter Švec, Peter Švec Sr.

doc. Mgr. Mário Ziman, PhD.

- 14. 5. 2024, Lakeside Quantum Dialogue 2024, Jyväskylä, Finland, „Divisibility structure of quantum processes“

- 21. 6. 2024, Symposium on Mathematical Physics 2024, Torun, Poland, „Private quantum channels for multi-photon pulses and unitary k-designs“
- 23. 9. 2024, MMM-11, 11th International Conference on Multiscale Materials Modeling, Prague, Czech Republic, „Principles of Quantum Computing“
- 9. 10. 2024 Quantum Information Days 2024, Warszawa, Poland, „Storing quantum dynamics“

Spoluautorské pozvané prednášky: (S) — Speaker

- Ivan Škorvánek (S), Jozef Marcin, Branislav Kunca, Peter Švec, 5. — 9. 5. 2024, IEEE International Magnetics Conference INTERMAG 2024, Rio de Janeiro, Brazília, „Impact of conventional and ultra-rapid annealing on microstructure and coercivity of Ni-rich nanocrystalline Fe-Ni-Nb-B alloys“
- Ivan Škorvánek (S), Branislav Kunca, Jozef Marcin, Peter Švec, 7. 8. 2024, The 5th International Symposium on Advanced Magnetic Materials and Applications, Quang Binh, Vietnam, „Rapidly Annealed High-Bs Soft Magnetic Fe(Co)-Based Nanocrystalline Alloys for High Temperature Applications“

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

prof. Ing. Štefan Luby, DrSc.

- 23. 9. 2024, XXVI. Kongres Slovenskej lekárskej spoločnosti, Park Inn, Bratislava, „Nanotechnológie a medicína“

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

RNDr. Ľubomír Martinovič, CSc.

- August 2024, Institute of Modern Physics, Chinese Academy of Sciences, cyklus prednášok „LF field theory: vacuum diagrams, massless fields, solvable models, zero modes, two-point functions“

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2024

2.7.1. Vynálezy, na ktoré bol v roku 2024 udelený patent

a) na Slovensku

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2024

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 2024

b) udelené v roku 2024

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 2024 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	2
Butvinová Beata	VEGA	1
Herzáň Andrej	SAIA	30
Jergel Matej	PostdokGrant	1
Luby Štefan	VEGA	1
Švec Peter	VEGA	2

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 1

2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

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

Meno pracovníka	Ved. monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Bartoš Erik	0	0	3	0	0	0	0
Boháč Vlastimil	0	0	2	0	0	0	0
Butvinová Beata	0	0	0	0	0	0	1
Gendiar Andrej	0	0	4	0	0	0	0
Gmucová Katarína	0	0	5	0	0	0	0
Herzáň Andrej	0	0	2	0	0	0	1

Ivančo Ján	0	0	2	0	0	0	0
Jergel Matej	0	0	7	0	0	0	0
Kalinay Pavol	0	0	2	0	0	0	0
Martinovič Lubomir	0	0	2	0	0	0	0
Plesch Martin	0	0	10	0	0	0	0
Plevachuk Yuriy	0	0	10	3	0	0	0
Repko Anton	0	0	1	0	0	0	0
Sedlák Matúš	0	0	0	0	0	0	1
Šamaj Ladislav	0	0	5	0	0	0	0
Švec Peter	0	0	4	0	0	0	4
Ziman Mário	0	0	8	0	0	0	0
Spolu	**0**	**0**	**67**	**3**	**0**	**0**	**7**

2.11. Iné informácie k vedecko-výskumnej činnosti.

Ústav zaviedol niekoľko vlastných projektových schém. Úspešní štipendisti programov ako aj prehľad ich dosiahnutých výsledkov budú zverejňovaní 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:

- 10/2023 – 05/2024 (120 h) Marína Rembovská, Gymnázium J. Hronca, Bratislava, ako vedecká pomocná sila (brigádnická práca študentov). Úspešná maturita a prihláška na VŠ štúdium v zahraničí (Ecole Polytechnique de Paris), mentor Peter Švec
- 01 – 06/2024 (120 h) Jakub Filús, FMFI UK, mentor Andrej Herzáň
- 01 – 06/2024 (160 h) Tatiana Grečnárová, FMFI UK, mentori Martin Venhart, Vladislav Matoušek
- 21/05 – 30/07/2024 (375 h) Baptiste Woestelandt, Grenoble INP - Phelma, UGA, Francúzsko, mentori Andrej Herzáň, Matúš Sedlák, "International internship agreement as part of the training: Engineer - Master's Degree";
- 01/07-25/09/2024 (80 h) Dorota Porubská, FMFI UK, Bratislava, 4. ročník, mentor Andrej Gendiar
- 07 – 08, 10 – 11 /2024 (140 h) Michal Grežďo, Masarykova Univerzita, Česká Republika,

mentor Andrej Herzáň
- 07/2024 (40 h), 11/2024 (40 h) Vadym Shvydkyi, Vienna University, 1. ročník Mgr, mentor Mário Ziman
- 07 – 08/2024 (120 h) Karolína Podhorská, King's College London, Spojené Kráľovstvo, mentor Martin Venhart
- 15/08-15/09/2024 (40 h) Jakub Ulík, University of Oxford, 3. ročník, mentor Andrej Gendiar
- 10/2024 – 06/2025 (80 h) Lea Fedorov, Bilingválne slovensko-španielske gymnázium, Nové Mesto nad Váhom, ako vedecká pomocná sila (brigádnická práca študentov). Príprava na maturitu v r. 2025 a na VŠ štúdium prírodovedného smeru, mentor Peter Švec
- 08/2024 (40 h) Jakub Nemček, gymnázium Novohradská BA, 4. ročník, mentor Peter Šiffalovič
- 11/2024 (40 h) Patrícia Nemcová, gymnázium Kremnická BA, 4. ročník, mentor Naďa Mrkývková

Podporujeme prípravu významných projektov, ako je napr. podanie žiadosti o ERC Advanced grant M. Venharta, ktorý už úspešne postúpil do 2. kola hodnotenia.

3. Medzinárodná vedecká spolupráca

3.1. Medzinárodné vedecké podujatia

3.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2024 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

3KK 2024 – Trojkráľová konferencia 2024, Praha, Česká republika, 40 účastníkov, 05.01.-05.01.2024

Mini-workshop: superconductivity, correlations, transport and layered materials, Bratislava, Slovensko, 29.04.-30.04.2024

CEQIP 2024 – Central European Quantum Information Processing, Skalica, Slovensko, 03.06.-06.06.2024

APCOM 2024 – Applied Physics of Condensed Matter, Štrbské Pleso, Slovensko, 19.06.-21.06.2024

Letná škola 2024: Kvantové technológie, Bratislava, Slovensko, 19.08.-23.08.2024

TiQT 2024 – Time in Quantum Theory 2024, Smolenice, Slovensko, 10.09.-13.09.2024

SSSI 2024 – Solid State Surfaces and Interfaces 2024, Zámok Smolenice, Slovensko, 18.11.-21.11.2024

3.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2025 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

3KK 2025/3KK 2025 – Trojkráľová konferencia 2025, Brno, Česko, 40 účastníkov, 03.01.-03.01.2025, (Mário Ziman, 02/ 59410 kl. 501, mario.ziman@savba.sk)
Tradičné neformálne stretnutie českých a slovenských mladých fyzikov.

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
Bačová Silvia	0	0	1
Brunner Róbert	0	0	1
Ghoreishi Seyed Arash	0	1	0
Hovorková Radka	0	2	0
Kochan Denis	0	0	1
Leppäjärvi Leevi Ilmari	0	0	1
Mohammady Mohammad Hamed	0	1	0

Móller Natalia Salomé	0	0	1
Pinčík Emil	0	0	1
Plevachuk Yuriy	2	0	0
Rivera Cardoso Ricardo	0	1	0
Sedlák Michal	0	1	0
Švec Peter	1	0	0
Ziman Mário	0	1	2
Spolu	3	7	8

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)

Mgr. Andrej Gendiar, PhD.

Americká fyzikálna spoločnosť (funkcia: 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)
Európska organizácia používateľov synchrotrónového žiarenia a FEL (European Synchrotron and FEL Users Organization) (funkcia: národný delegát)
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 tenkých vrstiev (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, PhD.

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
Hvizdošová Annušová Adriana	OPUS 27, National Science Centre Poland	1
Jergel Matej	JRP SAS-MOST	1
	JRP SAS-TUBITAK	1
Plesch Martin	Erasmus +	12
Sedlák Matúš	Natural Sciences and Engineering Research Council of Canada	1
Švec Peter	Narodowe Centrum Nauki	2

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

5. Doktorandské štúdium a pedagogická činnosť

5.1. Údaje o doktorandskom štúdiu

Tabuľka 5a Počet doktorandov v roku 2024

Forma	Počet k 31.12.2024				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2024					
							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	14	6	3	1	8	5	3	3	0	0	0	0
Denná z iných zdrojov	5	2	3	0	0	1	0	0	1	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0	0	0
Spolu	19	8	6	1	8	6	3	3	1	0	0	0
Z toho zahraničných	13	5	3	0	5	4	1	2	0	0	0	0
Súhrn	27		7		14		6		1		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 2024 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 2024 úspešnou obhajobou

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
Mgr. Ivan Klbik	interné štúdium hradené z prostriedkov SAV	9 / 2020	6 / 2024	1160 fyzika	RNDr. Igor Maťko CSc., Fyzikálny ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK
Mgr. Farnoush Salehtash	interné štúdium hradené z prostriedkov SAV	9 / 2019	8 / 2024	1160 fyzika	RNDr. Eva Majková DrSc., Fyzikálny ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK
MSc. Nidhin Sudarsanan Ragini	interné štúdium hradené z prostriedkov SAV	10 / 2019	8 / 2024	1160 fyzika	doc. Mgr. Mário Ziman PhD., 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 2024 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
Mgr. Gulnur Kantay	interné štúdium hradené z prostriedkov SAV	9 / 2018	10 / 2024	1160 fyzika	Mgr. Martin Venhart PhD., Fyzikálny ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK

Mgr. Jaroslav Pavličko	interné štúdium hradené z prostriedkov SAV	9 / 2017	8 / 2024	1160 fyzika	doc. Mgr. Mário Ziman PhD., Fyzikálny ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK
Mgr. Eva Pospíšilová	interné štúdium hradené z prostriedkov SAV	9 / 2018	8 / 2024	1160 fyzika	RNDr. Marek Mihalkovič CSc., Fyzikálny ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK

5.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 5e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2024 (obhajoba leto 2024)	**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**
1	0	1	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/11, IRN/2, PAK/2, BRA/1, CHN/1, KAZ/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. Štefan Luby, DrSc. (Alma Mater Europaea Ascoli Piceno, Taliansko)	
Prof. RNDr. Vladimír Bužek,	prof. Ing. Ivan Štich, DrSc.	

DrSc. (všeobecná fyzika a matematická fyzika)	(Fakulta prírodných vied UCM)	
RNDr. Stanislav Dubnička, DrSc. (všeobecná fyzika a matematická fyzika)	Mgr. Martin Venhart, PhD. (Trnavská univerzita v Trnave)	
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. Mgr. 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 2024

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	3	1	0	0
Celkový počet hodín v r. 2024	322	26	0	0

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

Tabuľka 5j Aktivity pracovníkov na VŠ

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

Počas zimného a letného semestra prebieha pre doktorandov **študentský PhD seminár**, so zameraním na precvičovanie prezentačných a soft-skills zručností študentov.

Kontaktnou osobou v skupine **Mladí Vedci SAV** bola **Ing. Monika Bírová,** ktorá informovala doktorandov o aktivitách skupiny. Mladí Vedci SAV združuje doktorandov a mladých vedeckých pracovníkov a napomáha internej komunikácii medzi členmi v otázkach spojených so štúdium a taktiež pri komunikácii študentov s Predsedníctvom SAV.

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: Výskum vybraných vlastností trvalo udržateľných izolačných materiálov s potenciálom využitia v drevostavbách
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2021
Zhodnotenie: Ako spoluriešiteľ sme úspešne ukončili VEGA projekt č. 1/0714/21: Výskum vybraných vlastností trvalo udržateľných izolačných materiálov s potenciálom využitia v drevostavbách. 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 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 skalných 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

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 tepelnej energie.

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

Fyzikálny ústav SAV, v. v. i. sa spolupodieľa na zavádzaní kvantovej infraštruktúry na Slovensku ako partner hlavného koordinátora, ktorým je Národné centrum pre kvantové technológie (QUTE.sk), ktoré v novembri 2021 založili MIRRI SR a Ministerstvo školstva, vedy, výskumu a športu SR. Kvantová komunikačná sieť prepojí dvanásť slovenských akademických inštitúcií od Bratislavy po Košice a zároveň sa vytvoria predpoklady aj na prepojenie s okolitými krajinami a na kvantový prenos šifrovacích kľúčov pomocou satelitov.

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	26	tlač	4	TV	4
rozhlas	1	internet	3	exkurzie	1
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	7				

7.2. Vedecko-organizačná činnosť

Tabuľka 7b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
SFS – 27. konferencia slovenských fyzikov	domáca	Žilina, Slovensko	2.9.-5.9.2024	70
3KK 2024 – Trojkráľová konferencia 2024	medzinárodná	Praha, Česká republika	5.1.-5.1.2024	40
Mini-workshop: superconductivity, correlations, transport and layered materials	medzinárodná	Bratislava, Slovensko	29.4.-30.4.2024	-
CEQIP 2024 – Central European Quantum Information Processing	medzinárodná	Skalica, Slovensko	3.6.-6.6.2024	-
APCOM 2024 – Applied Physics of Condensed Matter	medzinárodná	Štrbské Pleso, Slovensko	19.6.-21.6.2024	-
Letná škola 2024: Kvantové technológie	medzinárodná	Bratislava, Slovensko	19.8.-23.8.2024	-
TiQT 2024 – Time in Quantum Theory 2024	medzinárodná	Smolenice, Slovensko	10.9.-13.9.2024	-
SSSI 2024 – Solid State Surfaces and Interfaces 2024	medzinárodná	Zámok Smolenice, Slovensko	18.11.-21.11.2024	-

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
Gmuca Štefan	0	0	1
Spolu	0	0	1

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: 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. Mgr. 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, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

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

Kolegyňa Natália Salomé Móller bola ocenená prestížnou cenou **L'Oréal – UNESCO For Women in Science Award** v kategórii Fyzikálne a formálne vedy. Toto ocenenie je dôkazom jej výnimočného prínosu v oblasti kvantovej fyziky a jej odhodlania rozširovať vedecké poznatky. Pri tejto špeciálnej príležitosti navštívil 9. 7. 2024 Fyzikálny ústav **veľvyslanec Brazílskej republiky** Jeho Excelencia pán Gabriel Boff Moreira, aby Natálii oficiálne zablahoželal.

V dňoch 15. — 19. 7. 2024 sa uskutočnila **Letná škola mladých vedcov SAV** v Bratislave. Pri tvorbe programu pre účastníkov boli za FÚ SAV nápomocní: V. Shydkyi, P. Švec, N. Mrkývková, E. Bartoš, A. Herzáň, M. Ziman.

Na podujatí **Summer School 2024: Quantum Technologies** konaného v dňoch 19. — 23. 8. 2024 na FMFI UK Bratislava, vystúpili s príspevkami: D. Aktas, G. Borges, S. Saeid, P. Rapčan, Y. Benamara, L. Leppäjarvi.

Na **Európskej noci výskumníkov** 27. 9. 2024 Fyzikálny ústav tradične pripravil vedecký stánok v Starej tržnici. Tento rok sme sa spoločne pozieli do sveta nanovrstiev prostredníctvom Langmuir-Blodgett vaničky, nechýbali ani zaujímavé exponáty zo sveta magnetizmu.

V rámci podujatia Týždeň vedy a techniky na Slovensku, 11. — 17. 11. 2024 FÚ SAV, v. v. i. zorganizoval vlastný **„(Týž)Deň otvorených dverí na FÚ SAV 2024“** určený širokej verejnosti, ale najmä študentom stredných a vysokých škôl. Aktivita zahŕňala prednášky a návštevy špecializovaných laboratórií.

Podujatia DOD sa zúčastnili žiaci zo ZŠ Beňovského, Evanjelického lýcea v Bratislave a jednotlivci, ktorí si prehliadli naše laboratóriá a vypočuli popularizačné prednášky, ktoré sme si pre nich pripravili, napr.
Andrej Liptaj: „Fyzika hudby“
Mário Ziman: „Kvantová teleportácia“
Erik Bartoš: „Ako nám urýchľovače častíc uľahčujú život“

Návštevníci tak mohli spoznať svet nanomateriálov prostredníctvom názornej prípravy monovrstiev z nanočastíc zlata v kvapalnej fáze pomocou Langmuir-Blodgett vaničky, ďalej zistili, ako je možné nanomateriály pripravovať a aplikovať v praxi. Najmenších žiakov najviac zaujal glovebox, v ktorom sa upravujú dané vyrábané vzorky solárnych článkov. Nechýbala ani prehliadka konfokálneho Ramanovho mikroskopu, iónového lúčového rozprašovača, laboratória atomárnej silovej mikroskopie alebo zariadenia využívajúce RTG žiarenie.

Niektoré skupiny žiakov navštívili laboratóriá oddelenia fyziky kovov, kde si vyskúšali prácu s

optickými mikroskopmi alebo termogravimetrickými váhami. Ďalší záujemci sa ponorili do sveta kvantovej fyziky, kde im kolegovia z QUTE demonštrovali s lasermi viaceré zákonitosti z kvantového sveta. Úspech zožal aj kvantový počítač, kde si mohli zvedavci zahrať grafickú hru.

Do prehliadok laboratórií bolo zapojené Oddelenie multivrstiev a nanoštruktúr, Oddelenie fyziky kovov, Centrum pre výskum kvantovej informácie, menovite kolegyne a kolegovia Adriana Annušová, Karol Végso, Yuriy Halahovets, Monika Hofbauerová, Anna Kálosi, Peter Švec, Mário Ziman. Koordinátormi DOD bola Monika Bírová a Andrej Liptaj.

Dňa 5.12.2024 sme na našom ústave privítali **zástupcu vlády Slovenskej Republiky**, jej podpredsedu Petra Kmeca, ktorý doprevádzal zástupcov Európskej Komisie pod vedením Céline Gauerovej, generálnej riaditeľky a vedúcej pracovnej skupiny pre obnovu a odolnosť. Delegácia si prezrela kvantovo-optické experimentálne zariadenia na oddelení kvantovej informácie, ktoré boli podporené z projektov z plánu obnovy a odolnosti. Členovia boli tiež oboznámení s výskumom, ktorý sa na zariadeniach vykonáva ako aj s perspektívnymi aplikáciami a pozitívnymi dopadmi podporených projektov na vzdelávanie a získavanie študentov a na popularizáciu.

Fyzikálny ústav SAV, v. v. i. využíva na komunikáciu s verejnosťou aj **sociálnu sieť Facebook**. V roku 2024 sme uverejnili vyše 40 príspevkov, z toho približne polovicu autorských. Okrem našich vedeckých výstupoch a popularizačných aktivitách sme informovali aj o dôležitých udalostiach vo fyzike, ktoré sa udiali vo svete a tiež sme poskytli návštevníkom stránky priestor na otázky, na ktoré sme odpovedali. Stránka ma 52 sledovateľov a tento počet postupne narastá.

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.	Atestačná komisia STU	člen
Mgr. Martin Venhart, PhD.	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

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, PhD.

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

9.3. Členstvo v komisiách SAV

RNDr. Katarína Gmucová, CSc.

- Akreditačná komisia SAV (členka)
- Bytová komisia SAV (členka)
- Komisia pre transformáciu 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, PhD.

- 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

Princípy sú uplatňované.

Uveďte stručnú charakteristiku a hodnotenie aktivít v oblasti HRS4R.

10.2. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

Princíp rodovej rovnosti dodržiavaný na FÚ SAV, v. v. i. je založený na rovnosti príležitostí vo všetkých aspektoch. Na ústave nebol zaznamenaný žiaden prejav porušenia týchto princípov, prípadne rôzneho prístupu na základe rodu alebo inej charakteristiky.

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	14	13	1	3	2	1
2. Projekty APVV	9	7	2	11	10	1
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	7	5	2	0	0	0
4. Projekty SASPRO, MoRePro, IMPULZ	4	4	0	0	0	0
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	3	3	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
1. Projekty Horizont 2020 a 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	2	2	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. Bilaterálne projekty MAD, Mobility, Open Mobility	1	0	1	0	0	0
7. Bilaterálne projekty ostatné	2	2	0	0	0	0
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	1	1	0	0	0	0
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	0	0	0	0
10. Iné projekty	0	0	0	2	2	0

10.2.2. Výskum zameraný na rodovú problematiku

Nevykonávame.

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

FÚ vytvára prostredie, ktoré nielen podporuje profesijný rast zamestnancov, ale zároveň zabezpečuje aj ich práva a ochranu v súlade s platnými pracovnými predpismi. Všetky pracovné podmienky a sociálne výhody, ktoré sú zamestnancom poskytované, sú transparentné a v súlade s

legislatívou, ako aj s etickými a profesionálnymi normami. Hlavnou normou špecifikujúcou tieto podmienky je pracovný poriadok a kolektívna zmluva.

Pracovné podmienky:
Zamestnanci sú často vystavení vysokým nárokom na odbornú kvalifikáciu, kreativitu a intenzívnu duševnú prácu. Z tohto dôvodu je potrebné, aby pracovné podmienky zohľadňovali tieto špecifiká a zabezpečili priaznivé pracovné prostredie. To zahŕňa:

1. **Bezpečnosť a ochrana zdravia pri práci**: Všetky pracovné prostredia, či už laboratórne alebo administratívne, musia byť vybavené modernými technológiami a zariadeniami, ktoré zaručujú bezpečnosť pri vykonávaní odborných činností. Zároveň je nevyhnutné pravidelné školenie zamestnancov v oblasti bezpečnosti práce a poskytovanie potrebných ochranných pomôcok.
2. **Pracovný čas a flexibilita**: zavedený flexibilný pracovný čas umožňuje zamestnancom riadiť si pracovnú dobu podľa aktuálnych potrieb projektov alebo osobných preferencií. Flexibilita je dôležitá pre udržanie rovnováhy medzi pracovným a osobným životom.
3. **Podmienky pre profesijný rozvoj**: Zabezpečenie príležitostí na kontinuálne vzdelávanie, účasť na konferenciách, školeniach a výskumných projektoch je kľúčové pre podporu kariérneho rastu zamestnancov.

Sociálne podmienky a výhody:

1. **Zdravotné poistenie a sociálne zabezpečenie**: Zamestnanci majú právo na prístup k zdravotnej starostlivosti a sociálnemu zabezpečeniu, ktoré im poskytuje potrebnú ochranu v prípade choroby, úrazu alebo iných životných okolností, ktoré môžu ovplyvniť ich pracovnú schopnosť.
2. **Dovolenka a voľno**: Základné právo zamestnancov na dovolenku a voľno je zabezpečené zákonom, pričom vedecké inštitúcie môžu zamestnancom ponúknuť aj ďalšie možnosti ako napríklad flexibilné dni voľna alebo dodatočné voľno počas náročných projektov.
3. **Podpora rodiny**: pre zamestnancov, ktorí sú rodičmi, je dôležité podporovať rovnováhu medzi pracovným a rodinným životom. K tomu slúži už spomínaná flexibilita pracovného času ako aj miesta výkonu práce - možnosť tzv. domáckej práce.

Uplatňovanie práv zamestnancov:
Základným právom každého zamestnanca je spravodlivé a rovnaké zaobchádzanie v pracovnom prostredí, čo zahŕňa aj ochranu pred diskrimináciou, mobbingom a inými formami neetického správania. Zamestnanci FÚ majú jasne definované práva a povinnosti. Pravidelné kolégiá na mesačnej báze vytvárajú priestor na komunikáciu medzi zamestnancami a vedením.
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		9622
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		21
z toho zahraničné periodiká		20
Ročný prírastok knižničných jednotiek		17
v tom	kúpou	17
	darom	
	výmenou	
	bezodplatným prevodom	
	náhradou	
Úbytky knižničných jednotiek		
Knižničné jednotky spracované automatizovane		1390

*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)		441
v tom z r. 1	prezenčné výpožičky	350
	absenčné výpožičky	
v tom z r. 1	odborná literatúra pre dospelých	79
	výpožičky periodík	
MVS iným knižniciam		2
MVS z iných knižníc		
MMVS iným knižniciam		
MMVS z iných knižníc		8
Počet vypracovaných bibliografií		

Počet vypracovaných rešerší	2

12.3. Používatelia

Tabuľka 12c Používatelia

Registrovaní používatelia	115
Návštevníci knižnice spolu (bez návštevníkov podujatí)	95

12.4. Iné údaje

Tabuľka 12d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	1
Náklady na nákup knižničného fondu v €	1769

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

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 realizovať konkrétne aktivity na rozvoj ústavu.

14.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

V r. 2024 sme pokračovali v napĺňaní hlavných bodov akčného plánu činnosťami:

- Prijali sme šesť 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.
- Prebehli dve výberové konanie na ústavom financovanú pozíciu „IP SAS Fellow", M. Sedlák pokračoval druhým rokom na oddelení OJF, K. Szymański a A. Ghannadan nastúpili na oddelenie CVKI.
- Boli špeciálne odmenené publikácie s vysokým impakt faktorom a s vysokým počtom citácií na jednu publikáciu.
- Pokračujeme v trende internacionalizácie ústavu, primárne najmä na úrovni doktorandov a postdoktorandov, snažíme sa udržať aj výskumných pracovníkov zo zahraničia.
- Pokračujeme v získavaní finančných prostriedkov z projektov z národných zdrojov (VEGA, APVV, Impulz). V rámci výziev Plánu obnovy a odolnosti sme boli úsešný v dvoch štipendiách pre excelentných PhD. študentov (R1), v štyroch projektoch pre Štipendiá pre výskumníkov (R2 - R4) a dvoch kapitálových boostroch pre schémy na podporu výskumu a vývoja.

14.3. Aktualizácia Akčného plánu organizácie v roku 2024

V uplynulom roku nebola sformulovaná nová aktualizácia akčného plánu, avšak ústav podpísal s Predsedníctvom SAV výkonnostnú zmluvu o poskytnutí finančných prostriedkov na podporu vedy a výskumu v rámci Akčného plánu Národnej stratégie výskumu, vývoja a inovácií 2030.
FÚ SAV, v. v. i. bude realizovať aktivity zamerané na posun v kvantitatívnych a kvalitatívnych ukazovateľoch, ktoré si zadefinoval v šiestich tematických okruhoch. V rámci nich vypracuje i svoju stretégiu rozvoja a akčný plán.

15. Iné významné činnosti organizácie

FÚ je členom aj partnerom Národného Centra pre kvantové technológie, z.z.p.o. – QUTE.sk Jeho príspevkom do združenia je poskytnutie priestorov na činnosť tohoto združeniu. Zamestnanci oddelenia Centra pre výskum kvantovej informácie skrze partnerstvo vykonávajú najmä organizačnú, konzultačnú a popularizačnú činnosť s cieľom všeobecnej podpory rozvoja kvantových technológií na Slovensku.
FÚ poskytuje priestory pre kanceláriu Slovenskej fyzikálnej spoločnosti. Mnohí kolegovia sú členmi tejto spoločnosti a aktuálnym predsedom SFS je náš kolega Štefan Gmuca.

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 ako celku

Uveďte informácie a podnety v súlade s názvom kapitoly.

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

Vedecká rada FÚ SAV, v. v. i. kladne hodnotí výsledky získané na pôde Fyzikálneho ústavu FÚ SAV, v. v. i. v uplynulom roku, najmä zvýšenú publikačnú činnosť pracovníkov. Konštatuje spôsobilosť organizácie naďalej 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 2024 vypracoval(i):

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

Bratislava, 8. 2. 2025

doc. Mgr. Mário Ziman, PhD.
riaditeľ organizácie

PRÍLOHY k časti A

Príloha A-1

Zoznam zamestnancov a doktorandov organizácie k 31.12.2024

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.	Prof. RNDr. Miroslav Grajcar, DrSc.	20	0.20
4.	Ing. Ján Ivančo, DrSc.	100	1.00
5.	Ing. Matej Jergel, DrSc.	100	1.00
6.	Ing. Ján Kliman, DrSc.	70	0.70
7.	RNDr. Marián Krajčí, DrSc.	100	1.00
8.	prof. Ing. Štefan Luby, DrSc.	50	0.50
9.	RNDr. Eva Majková, DrSc.	25	0.25
10.	Prof. Yuriy Plevachuk, DrSc.	100	1.00
11.	RNDr. Ladislav Šamaj, DrSc.	100	1.00
12.	Dr. Rer. Nat. Peter Šiffalovič, DrSc.	70	0.70
13.	prof. Ing. Ivan Štich, DrSc.	20	0.20
14.	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.	Mgr. Adriana Hvizdošová Annušová, PhD.	50	0.50
16.	RNDr. Pavol Kalinay, CSc.	100	1.00
17.	doc. Mgr. Taras Kavetskyy, PhD.	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. Mgr. 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.	RNDr. Naďa Mrkývková, PhD.	50	0.60
26.	Ing. Vojtech Nádaždy, CSc.	100	1.00
27.	Mgr. Daniel Nagaj, PhD.	20	0.20
28.	Mgr. Pavol Neilinger, PhD.	20	0.20
29.	RNDr. Emil Pinčík, CSc.	100	1.00
30.	RNDr. Matej Pivoluska, PhD.	50	0.00
31.	doc. RNDr. Martin Plesch, PhD.	50	0.83
32.	RNDr. Anton Repko, PhD.	100	1.00
33.	Saeid Salari, PhD.	100	1.00
34.	Mgr. Michal Sedlák, PhD.	100	1.00
35.	Ing. Mgr. Peter Staňo, PhD.	52	0.52
36.	RNDr. Ondrej Šauša, CSc.	100	1.00
37.	Ing Peter Švec Jr., PhD.	100	1.00
38.	RNDr. Kamil Tokár, PhD.	30	0.30
39.	Ing. Igor Travěnec, CSc.	100	1.00
40.	RNDr. Robert Turanský, PhD.	80	0.80
41.	Mgr. Karol Végsö, PhD.	90	0.90
42.	Mgr. Martin Venhart, PhD.	50	0.50
43.	Ing. Viliam Vretenár, PhD.	33	0.33
44.	doc. Mgr. Mário Ziman, PhD.	100	1.00
Vedeckí pracovníci			
1.	RNDr. Róbert Brunner, CSc.	100	1.00
2.	Mgr. Jozef Genzor, PhD.	100	0.92

3.	Ing. Ján Hudec, PhD.	34	0.34
4.	Ing. Anna Kálosi, PhD.	30	0.30
5.	Ing. Mário Kotlár, PhD.	15	0.15
6.	Mgr. Leevi Ilmari Leppäjärvi, PhD.	100	1.00
7.	Mgr. Natalia Salomé Móller, PhD.	100	1.00
8.	Mgr. Peter Nádaždy, PhD.	50	0.50
9.	Mgr. Peter Rapčan, PhD.	100	1.00
10.	Ing. Jaroslav Rusnák, PhD.	100	1.00
11.	Ing. Matúš Sedlák, PhD.	100	1.00
12.	Ing. Vladimír Štofanik, PhD.	25	0.25
13.	Mgr. Rupali Tiwari, PhD.	5	0.05
14.	Dr. Sebastian Vielhauer, PhD.	100	1.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	MSc. Poongodi Ayyanusamy	5	0.05
2.	Ing. Monika Bírová	5	0.05
3.	Mgr. Lukáš Holka	5	0.05
4.	Mgr. Yuri Chernyak	5	0.05
5.	RNDr. Dušan Janičkovič	100	1.00
6.	Mgr. Ivan Klbik	100	0.53
7.	Mgr. Ivan Andreevič Kovalev	5	0.92
8.	Ing. Dušan Lacko	25	0.25
9.	doc. Ing. Peter Lacko, PhD.	25	0.25
10.	Mgr. Nikolas Masničák	5	0.05
11.	Mgr. Ijaz Ahamed Mohammad	5	0.05
12.	Mgr. Mohammad Hamed Mohammady, PhD.	100	0.96
13.	Matej Moško, MPhil	5	0.05
14.	MSc. Muhammad Arslan Raza	5	0.05
15.	MSc. Ricardo Rivera Cardoso	0	0.00
16.	Mgr. Soham Sau	5	0.05
17.	MSc. Nana Siddhartha Yenamandala	5	0.00
18.	Mgr. Shima Sousani	5	0.05
19.	Mgr. Magdaléna Šolcová	5	0.02
20.	Mgr. Iryna Timchenko Prihodko, PhD.	100	1.00
21.	Mgr. Daniel Truchan	5	0.05
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			

1.	Mgr. Radka Hovorková	100	1.00
2.	Mgr. Andrea Korenková	100	0.17
3.	Ing. Jana Kováčová	100	1.00
4.	Bc. Ivana Kúdelová	100	0.92
5.	Ing. Bc. Mária Lindorová	25	0.25
6.	Ing. Denisa Melišková	100	1.00
7.	Mgr. Katarína Slezáková	100	1.00
8.	Ing. Beata Solčianska	100	1.00
9.	Mgr. Mária Surovcová, PhD.	100	0.38
10.	Bc. Mária Švančarová	100	0.71
11.	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.	Jana Koláriková	100	1.00
5.	Marian Markovič	100	1.00
6.	Ivan Sabo	60	0.60
7.	Oľga Švančarová	30	0.67
8.	Zita Vaňovičová	100	1.00
9.	Jana Zvončeková	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**
Vedúci vedeckí pracovníci DrSc.			
1.	Prof. RNDr. Miroslav Grajcar, DrSc.	31.12.2024	0.20
Vedúci vedeckí pracovníci CSc., PhD.			
1.	RNDr. Stanislav Hlaváč, CSc.	12.7.2024	0.00
Samostatní vedeckí pracovníci			
1.	Mgr. Pavol Neilinger, PhD.	31.12.2024	0.20
2.	RNDr. Matej Pivoluska, PhD.	31.12.2024	0.00
Vedeckí pracovníci			
1.	Mgr. David Davalos Gonzalez, PhD.	30.6.2024	0.00

2.	Ing. Mário Kotlár, PhD.	31.12.2024	0.15
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Gulnur Kantay	31.8.2024	0.03
2.	Mgr. Denisa Lampášová	31.8.2024	0.01
3.	MSc. Nidhin Sudarsanan Ragini	31.1.2024	0.00
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Bc. Simon Mičky	29.2.2024	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.	Mgr. Lukáš Holka	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.	Mgr. Nikolas Masničák	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
10.	Mgr. Ijaz Ahamed Mohammad	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
11.	MSc. Samgeeth Puliyil	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
12.	MSc. Ricardo Rivera Cardoso	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
13.	MSc. Nayan Jyoti Sarmah	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
14.	Mgr. Soham Sau	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
15.	Mgr. Deng Shuang	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
16.	MSc. Nana Siddhartha Yenamandala	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
17.	Mgr. Magdaléna Šolcová	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
18.	Mgr. Daniel Truchan	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
19.	MSc. Leonardo Viana Dias	Fakulta elektrotechniky a informatiky STU	1160 fyzika
20.	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. Younes Benamara	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
3.	MSc. Miquel Jorquera Riera	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
4.	Mgr. Ivan Andreevič Kovalev	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
5.	Matej Moško	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
6.	MSc. Muhammad Arslan Raza	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
7.	Mgr. Shima Sousani	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. Miroslav Nagy, DrSc.
10.	RNDr. Anton Šurda, CSc.
11.	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:	- Podpora medzinárodnej spolupráce z národných zdrojov: 2500 €

Dosiahnuté výsledky:
Rozpracovane dve publikacie. Jedna sa pripravuje na poslanie a druha je este vo vyskumnej faze.

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:	- Podpora medzinárodnej spolupráce z národných zdrojov: 2000 €

Dosiahnuté výsledky:
V roku 2024 sme v spolupráci s konzorciom COST pracovali na rozšírení infračervenej databázy nanomateriálov na báze uhlíka.

3.) Vysoko-výkonné uhlíkové kompozity s inovatívnymi vlastnosťami pre aplikácie pokročilého snímania *(High-performance Carbon-based composites with Smart properties for Advanced Sensing Applications)*

Zodpovedný riešiteľ:	Peter Šiffalovič
Trvanie projektu:	21.10.2020 / 20.10.2024
Evidenčné číslo projektu:	CA19118
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských	0

inštitúcií:
Čerpané financie: -

Dosiahnuté výsledky:
V poslednom desaťročí boli skúmané vlastnosti povrchovo zosilneného Ramanovho rozptylu (SERS) u nízkorozmerných polovodičových nanovrstvičiek MXene. Napriek tejto skutočnosti vzťah medzi povrchovými vlastnosťami a SERS-výkonom MXénovej vrstvy nebol doteraz komplexne preskúmaný a objasnený. Výsledky našej práce ukázali význam morfológie povrchu na celkový SERS efekt štúdiom niekoľkovrstvových SERS substrátov na báze MXénu Ti3C2Tx vyrobených vákuovou filtráciou (VAF) a nástrekom na filtračný papier.

Programy: NATO

4.) 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:	NATO: 17055 € Podpora medzinárodnej spolupráce z národných zdrojov: 5391 €

Dosiahnuté výsledky:

Programy: Bilaterálne - iné

5.) Širokopásmové detektory na báze perovskitov - od kvantovej bodky k funkčnému detektoru *(Perovskites Quantum Dots based Broadband Detectors – from a quantum dot to a functional detector)*

Zodpovedný riešiteľ:	Peter Šiffalovič
Trvanie projektu:	1.11.2021 / 31.10.2024
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	8 - Česko: 2, Maďarsko: 2, Japonsko: 2, Poľsko: 2
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 20666 €

Dosiahnuté výsledky:
V roku 2024 sa nám podarilo vyvinúť jedinečný detektor röntgenového žiarenia založený na grafénovom kanáli s nanesenou multivrstvou z perovskitových kvantových bodiek (PQD). Detektory je možné nanášať aj na ohybné substráty (použili sme kapton). Externá kvantová účinnosť vysoko prekračuje 100%, čo poukazuje na vnútorný zosilňovací efekt v podkladovej

vrstve grafénu.

6.) Vysoko účinné a stabilné bezolovnaté perovskitové solárne články s optimalizovanou neradiačnou rekombináciou *(Highly efficient and stable lead-free perovskite solar cells with optimized non-radiative recombination)*

Zodpovedný riešiteľ:	Peter Šiffalovič
Trvanie projektu:	1.1.2022 / 31.12.2024
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Taiwan: 1
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 25000 €

Dosiahnuté výsledky:
V roku 2024 sme demonštrovali vývoj vysoko výkonných MAPbI3 PD na báze p-i-n štruktúry pre optické komunikácie. Na zvýšenie fotoelektrického výkonu a stability zariadenia bol implementovaný dvojitý prístup. Po prvé, pomocou nanočastíc Au sme zmenšili hranice zŕn a defekty a zvýšili kryštalinitu perovskitu. Po druhé, pomocou n-propylamóniumjodidu ako účinného rekryštalizačného činidla sme znížili rekombináciu na rozhraní a vytvorili kryciu vrstvu kvázi-2D (PA)2PbI4 perovskitového povlaku. Táto bariérová vrstva zároveň chráni základný 3D perovskitový film pred degradáciou.

Programy: ERANET

7.) 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: 10416 €

Dosiahnuté výsledky:
Boli vytvorené prvé vzorky materiálu Ge-MgO pomocou MBE technológie. Uskutočnila sa základná charakterizácia materiálu prostredníctvom meraní Hall-bar zariadení.

Programy: Iné

8.) 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:	12 - Rakúsko: 0, Španielsko: 4, Francúzsko: 1, Chorvátsko: 1, Rumunsko: 2, Slovinsko: 4
Čerpané financie:	-
	Podpora medzinárodnej spolupráce z národných zdrojov: 899 €

Dosiahnuté výsledky:
Získali sme prvé vzorky magneticky tvrdých materiálov na báze Nd-Fe-B v stave “end-of-life”, rozpracovali sme prvé metodiky vedúce k recyklácii týchto materiálov.

9.) 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:	-
	Podpora medzinárodnej spolupráce z národných zdrojov: 9375 €

Dosiahnuté výsledky:
Vyvíjané techniky termomagnetomechanického spracovania a magnetického žíhania sme využili pri príprave optimalizovaného materiálu jadra snímača magnetického poľa typu fluxgate. Porovnali sme špičkové komerčné materiály s u nás vyrobeným nanokryštalickým materiálom typu Finemet, ukázali sme, že správny výber sekvencie termomagnetického spracovania vedie k materiálu plne konkurenčneschopného so zvyčajne používanými komerčnými materiálmi a rozširuje rozsah pracovných teplôt magnetometra. Na základe získanej expertízy s využitím nekonvenčných metód tepelného spracovania magneticky mäkkých materiálov za súčasného pôsobenia magnetického poľa a mechanického napätia na tvarovanie hysteréznej sľučky sme v spolupráci so zahraničným partnerom pripravili prvé materiály pre konštrukciu magnetometra z dvoch snímačov typu fluxgate na detekciu malých zmien magnetických polí pri povrchu zeme (detekcia geomagnetických anomálií, životu nebezpečných malých magnetických objektov, včasné varovanie pred zemetraseniami a pod.).

Programy: Mobility

10.) Cielená pasivácia defektov v tenkých perovskitových vrstvách *(Targeted Defect Passivation in Thin Perovskite Films)*

Zodpovedný riešiteľ:	Naďa Mrkývková
Trvanie projektu:	1.1.2023 / 31.12.2024
Evidenčné číslo projektu:	CAS-SAS-2022-04
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Česko: 1
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 1500 €

Dosiahnuté výsledky:

Programy: Horizont Európa

11.) 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:	Humboldt: 85910 €

Dosiahnuté výsledky:

12.) 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:
Na vzorkách komerčných aj “end-of-life” magnetov Nd-Fe-B sme spravili prvé štúdie na

implementáciu technológie ich recyklácie, najmä separácie ochranných vrstiev, vhodnej prípravy pre ich fragmentáciu metódou tzv. dekrepitácie a predprípravu prekurzorov pre následné spracovanie s ohľadom na ich reaktivitu s okolitou atmosférou.

Programy: Digital Europe Programme

13.) 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:	EC: 1102328 € Podpora medzinárodnej spolupráce z národných zdrojov: 1190572 €

Dosiahnuté výsledky:
Príprava a testovanie 6 uzlov. Kvantová linka v rámci Bratislavy.

Domáce projekty

Programy: VEGA

1.) Využitie SU(3) symetrie a analytičnosti na nové teoretické vyhodnotenie g-2 anomálie, predpovedanie správania sa hyperónových elektromagnetických formfaktorov a vyhodnotenie vybraných rozpadov hadrónov *(An utilization of the SU(3) symmetry and the analyticity for a new theoretical evaluation of the g-2 anomaly, the prediction of the behavior of hyperon electromagnetic form factors and the evaluation of selected hadronic decays)*

Zodpovedný riešiteľ:	Erik Bartoš
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0105/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 6403 €

Dosiahnuté výsledky:

Podrobnejšie bola preskúmaná povaha tlmených oscilujúcich štruktúr pre efektívne elektromagnetické formfaktory hadrónov (p, n, K, pi). Ich správanie bolo vypočítané z údajov pre príslušné účinné prierezy. Zdanlivé oscilácie boli pozorované po prvýkrát pre protón, a berúc do úvahy aj iné hadróny, ukázali sme že ide o artefakt, ktorý je výsledkom veľmi zjednodušeného teoretického popisu založeného na elementárnom trojparametrovom modeli. Ak sú údaje popísaný vhodnejším a fyzicky dobre podloženým unitárnym a analytickým modelom, potom oscilácie zmiznú.

V rámci kovariantného kvarkového modelu bol analyzované šírky leptonického rozpadu

ťažkých kvarkónií ako komplementárne pozorovateľné prvky k semileptonickým rozpadom ťažkých mezónov, takým spôsobom poskytujú ďalší pohľad na možné narušenie univerzálnosti leptónovej chuti.

Bolo publikovaných päť publikácií a jeden konferenčný príspevok. Práce zahŕňajú aj dve publikácie venované matematickej aproximácii funkcií a spriemerovaniu ako účinnému nástroju pri potlačení zaokrúhľovacích chýb pri nestabilných výpočtoch.

2.) 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:	VEGA: 22411 €

Dosiahnuté výsledky:
Von Neumannova entropia, concurrence a negativita majú pôvod v kvantovej informácii. Predstavujú silný nástroj na kvantifikáciu previazaných stavov od separabilných. Preto je rozklad kvantového stavu na súčin tenzorov rozhodujúci pri konštrukcii tenzorových sietí v takzvanej vertexovej reprezentácii. Študovali sme veľkosť previazania prostredníctvom von Neumannovej entropie. Zistili sme, že iná alternatíva, váhovaná reprezentácia tenzorových sieí, vykazuje väčšie previazanie ako reprezentácia cez vertexy. Primárne sme sa zamerali na klasifikáciu fázových prechodov a zdôvodnenie nesúladu oboch reprezentácií, pretože ich štatistické funkcie sú ekvivalentné.

3.) 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:	VEGA SAV: 19210 €

Dosiahnuté výsledky:
V rámci prvého roka riešenia projektu sme úspešne zrealizovali dva experimenty (JR161 - spokesperson Andrej Herzáň; R61 - spokesperson Martin Venhart) v Urýchľovačovom laboratóriu Univerzity v Jyväskylä (JYFL) vo Fínsku, v celkovej dĺžke 21 dní, so zameraním na štúdium štruktúry izotopov zlata, konkrétne 179,181Au. Návrh experimentu zameraného na zmeranie dôb života vzbudených hladín v 179Au (spokesperson Andrej Herzáň) , ktorý bol v čase podávania projektu odoslaný na posúdenie Programovou komisiou JYFL-PAC, bol schválený v plnom rozsahu a návrhu bol udelený zväzkový čas v trvaní 14 dní. Boli publikované 2 prác v Physics Letters B a Physical Review C a prezentovaná jedna pozvaná prednáška.

4.) Využitie biokompatibilných 2D nanomateriálov a nanočastíc ako ochrana pred biodeterioráciou rôznych druhov povrchov. *(Application of biocompatible 2D nanomaterials and nanoparticles as a protection against biodeterioration of various types of surfaces.)*

Zodpovedný riešiteľ:	Monika Hofbauerová
Trvanie projektu:	1.1.2022 / 31.12.2024
Evidenčné číslo projektu:	2/0082/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 12889 €

Dosiahnuté výsledky:
Počas tretieho roku riešenia projektu sme sa venovali in situ testovaniu antimikrobiálneho efektu plazmonických MoOx nanočastíc a 2D materiálu MoS2. Inhibíciu rastu bakteriálnych buniek Escherichia coli a S.aureus sme pozorovali na základe indukovaného fototermálneho efektu (PTE) nanočastíc použitím laserovej diódy s vlnovou dĺžkou 635 nm a 808 nm. Nárast teploty na povrchu materiálu bol monitorovaný termovíznou kamerou (termovízna kamera Flir One Pro; teplota povrchu 50-60 °C). Výkon lasera aj vzdialenosť lasera boli nastavené tak, aby sa povrch materiálu nezničil zahrievaním (deštruktívne zmeny spôsobené laserom boli monitorované digitálnym mikroskopom). V prípade MoOx sme zaznamenali výraznu inhibíciu rastu buniek E. Coli (80-100% účinnosť) a 100% antimikrobiálny efekt voči S. Aureus po vyvolaní PTE pôsobením lasera. Pre MoS2 a konjugáty MoS2 sme zaznamenali lepšie výsledky po pôsobení lasera (62% účinnosť) než bez lasera (22-40% účinnosť) a to hlavne na povrchu mäkkého dreva.

5.) Návrh a optimalizácia biokonjugačných stratégii inovatívnych 2D fototermálnych nanomateriálov s tumor-navádzajúcimi peptidmi *(Design and optimization of bioconjugation strategies of emerging 2D photothermal nanomaterials with selective tumor homing peptides)*

Zodpovedný riešiteľ:	Adriana Hvizdošová Annušová
Trvanie projektu:	1.1.2022 / 31.12.2024
Evidenčné číslo projektu:	2/0117/22
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum pre využitie pokročilých materiálov SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 4593 €

Dosiahnuté výsledky:
Študovali sme vplyv nanokonjugátov na báze MoOx na rakovinové a zdravé bunky in vitro. Nanočastice boli funkcionalizované RGD peptidom na selektívne naviazanie. Biochemické testy potvrdili prednostnú internalizáciu MoOx-RGD v rakovinových bunkách. Na tento systém sme úspešne aplikovali fototermálnu terapiu in vitro. Vytvorili sme funkčnú nanoplatformu na cielenú fototermálnu terapiu rakovinových buniek.

6.) 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: 3757 €

Dosiahnuté výsledky:
Trioxid volfrámu (WO3) je polymorf so širokým aplikačným rozsahom pokrývajúcim aj chemoodporové senzory stopových koncentrácii vybraných plynov. Zvlášť nízkoteplotná fáza epsilon, ktorá je ale v objemovom WO3 stabilná pri teplotách <-40°C, je sľubným aktívnym materiálom pre senzory. Stabilita fázy epsilon aj pri vyšších teplotách sa dosahuje dopovaním. Študovali sme mikrokryštalický WO3 dopovaný chrómom v závislosti od tepelného spracovania pomocou Ramanovej spektroskopie a rtg difraktometrie. Rozkladom píkov v 2theta difraktogramoch sme stanovili pomer kryštalografických fáz koexistujúcich vo WO3 a pozorovali WO3 s dominujúcou fázou epsilon až do teploty 250°C.

Po prelomovej publikácii S. Ohtu z r 2007 (10.1038/nm1577) sa molekulárny vodík definitívne stal vyhľadávaným antioxidantom s liečebnými i preventívnymi účinkami. Prienik nanotechnológie do tejto oblasti, menovite nanočasticami (hydridy napr. horčíka, paládia) stimulované uvoľňovanie alebo generovanie vodíka v danom mieste organizmu a tiež nanosenzory pre vodíkové hospodárstvo, sú rozpracované v kapitole knižnej publikácie [10.1007/978-3-031-47375-3_25]. Na etiku v nanotechnológiách a históriu „šťastných“ objavov v nanotechnológiách boli zamerané dve práce prezentované na 12th Int. Conf. ADEPT.

7.) 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: 2134 €

Dosiahnuté výsledky:
Skúmali sme difúziu častíc v kanáloch s nepriepustnými pružnými stenami, ktoré sa menia v čase aj priestore (pozdĺž kanálu). Mapovaním 2D problému na pozdĺžnu súradnicu sme odvodili zovšeobecnenú Fick-Jacobsovu rovnicu, ktorá obsahuje dodatočný efektívny potenciál, usmerňujúci pohyb častíc v prípade asymetrických pohybov steny kanálu. Pohybom stien kanálu je teda tiež možné budiť ratchet (ozubnicový) efekt.

8.) 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:	VEGA SAV: 2843 €

Dosiahnuté výsledky:
Kompozitné materiály, ktoré boli pripravené v predošlých fázach projektu (konkrétne povrchovou modifikáciou častíc karbonizovanej celulózy) boli ďalej hlbšie charakterizované s cieľom získať podrobnejšie informácie najmä o mikroštruktúre a chemickom zložení vyprecipitovaných častíc oxidov kovov.
V rámci medzinárodnej spolupráce boli vybrané materiály, v ktorých bola ukázaná prítomnosť mezopórnej štruktúry, využité na vývoj lakázovej elektródy pre biosenzorické aplikácie.
Súčasne bola skúmaná možnosť využitia mikroporózneho materiálu pripraveného karbonizáciou celulózy ako plniva v procese syntézy iných materiálov, v tejto fáze projektu sa jednalo najmä o polyméry.

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

Zodpovedný riešiteľ:	Vojtech Nádaždy
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0165/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	VEGA SAV: 9294 €

Dosiahnuté výsledky:
V súlade s cieľmi projektu sme skúmali vplyv: i) kryštalinity zmesi P3HT:PCBM na výkon í solárnych článkov, ii) použitia vodivých a nevodivých nanoplnív na narušenie štruktúry polymérnej matrice polyacetylénov a MEH-PPV z hľadiska na zlepšenie svietivosti v porovnaní so svietivosťou konvenčných organických diód emitujúcich svetlo.
Pomocou výpočtov DFT sme určili možné stabilné konfigurácie párov nových organických molekúl TNT-FEC. Tieto simulácie nám umožňujú nájsť rôzne viac a menej stabilné kryštálové štruktúry týchto molekúl.
Ďalej sme rozvinuli našu metódu ER-EIS na charakterizáciu priestorového rozloženia defektných stavov, aby sme lepšie pochopili koncept materiálov odolných voči defektom. Porovnaním povrchovej a objemovej hustoty defektných stavov zo stratového uhla tangens v zakázanom páse získame informáciu o heterogenite elektronickej štruktúry naprieč tenkým filmom. Tento prístup má potenciál pri hľadaní nových materiálov a efektívnych technologických postupov premeny slnečnej energie na elektrickú energiu.

Výsledky boli publikované v 4 CC časopisoch.

10.) 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:	VEGA SAV: 3794 €

Dosiahnuté výsledky:

11.) 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:	VEGA SAV: 11673 €

Dosiahnuté výsledky:
Jeden článok bol publikovaný a jeden zaslaný na publikovanie, dva ďalšie sú v príprave.

12.) 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:	VEGA SAV: 960 €

Dosiahnuté výsledky:

13.) 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 SAV: 5336 €

Dosiahnuté výsledky:

14.) Fyzikálne vlastnosti uväznenej vody v prostredí lipidových dvojvrstiev a vplyv kryoprotektív *(Physical properties of confined water in the environment of lipid bilayers and the influence of cryoprotectants)*

Zodpovedný riešiteľ:	Ondrej Šauša
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0134/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 2952 €

Dosiahnuté výsledky:

V roku 2024 sa dokončievala štúdia ohľadom fázového správania uväznených kvapalín v SBA-15 (cylindrické póry s priemerom 8.5 nm), konkrétne vody a jej binárnych zmesí s dimetylsulfoxidom, formamidom a chloridom sodným. Fázové správanie uväznených zmesí možno popísať pomocou modelu, ktorý kombinuje príspevok klasického poklesu bodu mrznutia zmesí v objemovom stave a príspevok od Gibbs-Thomson efektu, ktorý popisuje ako sa znižuje bod tuhnutia čistej látky (vody) znižovaním rozmeru, v ktorom je látka uväznená. Bolo zistené, že zmesi obsahujúce formamid a DMSO majú bod tuhnutia vyššie ako predpovedá tento model, pokiaľ u NaCl je to naopak. Na to aby sa toto správanie vysvetlilo, bola navrhnutá hypotéza, ktorá hovorí o nehomogénnom rozdelení rozpustených látok (DMSO, formamid, NaCl) naprieč pórmi SBA-15 matrice. Ak predpokladáme preferenčnú interakciu molekúl DMSO a formamidu so stenou pórov, z toho vyplýva, že v centrálnej časti póru, kde sa tvorí ľad, je nižší obsah rozpustených látok oproti ich nominálnej koncentrácii. V prípade NaCl je možné navrhnúť relatívne vylúčenie NaCl z blízkosti povrchu matrice, čo by malo naopak za následok vyšší obsah NaCl v strednej časti póru. Vzhľadom na to, že voda pokrývajúca povrch matrice neparticipuje v kryštalizácii ľadu, je táto hypotéza schopná vysvetliť pozorované deviácie. Molekulárno-dynamické simulácie takýchto systémov jednoznačne potvrdili navrhnutú hypotézu, keď bol pozorovaný výrazne zvýšený výskyt molekúl DMSO a formamidu v tesnej blízkosti povrchu SBA-15, nahrádzajúc časť vody v tzv. delta-vrstve. Naopak ióny Na+ a Cl- síce vykázali určité usporiadanie v blízkosti povrchu SBA-15, avšak ich relatívne množstvo bolo výrazne nižšie ako v prípade DMSO a NaCl. V súčasnosti sa dokončuje Ramanovská analýza týchto systémov, ktorá má šancu experimentálne potvrdiť túto hypotézu, a práca je plánovaná na publikovanie vo vedeckom časopise.

Tiež sme sa venovali simuláciám molekulárnej dynamiky vody, DMSO a modelovej biologickej membrány. Tieto simulácie sa zaoberali vplyvom DMSO na lipidovú membránu v tekutom stave (zodpovedajúce fyziologickým podmienkam) a gélovom stave (tuhšia, usporiadanejšia membrána – relevantné pri nízkych teplotách pri kryoprezervácii) a tiež vplyvom DMSO na interakcie lipidovej membrány s ľadom. Ukázalo sa, že účinok DMSO na lipidovú membránu v tekutom stave pri študovaných koncentráciách (do 10 obj. %) je minimálny. Na druhej strane, v gélovom stave je vplyv DMSO výraznejší, keď bolo pozorované zníženie usporiadania uhlíkových reťazcov lipidových molekúl tvoriacich hydrofóbne jadro lipidovej membrány. Tento účinok priamo zrejme nevysvetľuje jeden z aspektov kryoprotekcie DMSO, avšak jeho dôsledky a to najmä na proteínove-lipidové interakcie môžu mať za následok ovplyvnenie funkcií biologických membrán, čo sa však žiada ďalšie vyšetrenie s využitím komplexnejších modelových systémov. Molekulárno-dynamické simulácie tiež potvrdili hromadenie DMSO v blízkosti lipidovej membrány počas kryštalizácie ľadu, vytvárajúc tak fyzikálnu bariéru medzi ľadom a membránou, čo je konzistentné s interpretáciou experimentálnych dát z časti projektu zaoberajúceho sa lipozómami. Tieto výsledky boli prezentované na niekoľkých konferenciách (CRYO2024, Visegrad symposium on biomolecular interactions 2024) a sú v súčasnosti pripravované na publikáciu vo vedeckom časopise.

Počas roku 2024 vyšli 4 publikácie a niekoľko konferenčných príspevkov.

15.) 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:	VEGA SAV: 2733 €

Dosiahnuté výsledky:
Preskúmali sme vplyv “legovania” bezolovnatých spájok malým množstvom nanoobjektov (uhlíkových nanočastíc a nanorúrok, keramických nanočastíc na báze oxidov kovov) na štruktúru a pevnosť spojov Cu-spájka-Cu. Ukázali sme, že dôsledné pokrytie nanoobjektov tenkými vrstvami kovov (Au, Ni) použitím vlastnej metódy vibračne podporovanej depozície priazdnivo vplýva na mechanické vlastnosti spojov, korelovali sme prítomnosť takýchto nanoobjektov s vývojom mikroštruktúry spojov a ich pevnosti. Detailne sme preskúmali aj vplyv dlhodobej expozície takýchto spojov nízkym teplotám na ich vlastnosti, získali sme významné poznatky pre praktické aplikácie takýchto modifikovaných spájok.

16.) Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov *(Property control of metallic systems by tailoring of structures on atomic scales by internal and external factors)*

Zodpovedný riešiteľ:	Peter Švec
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0144/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.

Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 19828 €

Dosiahnuté výsledky:
Navrhli sme a priebežne optimalizovali zariadenie na stredne rýchle žíhanie tenkých kovových pásov, ktoré sme vo viacerých prípadoch využili pri optimalizácii nových materiálov pripravených rýchlym ochladením taveniny na cielené riadenie výsledných, najmä štruktúrnych, magnetických, magnetomechanických a chemických vlastností.

Ukázali sme, že stredne rýchle (jednotky až desiatky sekúnd) a ultrarýchle (subsekundové) žíhanie je popri energetickej účinnosti v dôsledku krátkej doby žíhania vysokoefektívne na dosiahnutie zníženia rozmerov nanokryštalických zŕn kryštalizujúcich v amorfnej matrici s dôsledkom výrazného zníženia magnetickej koercivity vedúcim k získaniu kvalitných magneticky mäkkých materiálov (materiály na báze Fe-Sn-B, Fe(Co)SnBP a Fe-Cu-B-P-Si. Ukázali sme možnosť optimalizácie procesu nanokryštalizácie z rýchlochladeného amorfného stavu v kombinácii s optimalizáciou legovania nízkym obsahom vhodných prvkov na zabezpečenie nízkej koercivity bez straty magnetizácie v nasýtení, ktorá zostala na úrovni 1.8 T.

Preskúmali sme vývoj koercivity a stability na ultarýchlo žíhaných rýchlochladených vzorkách Fe-Co-B s prídavkom 1 at.% Cu. Žíhaním pri vysokých teplotách pri časoch pod 1 sekundu bolo možné dosiahnúť magnetizáciu v nasýtení na úrovni 1.87 T a koercivity menšie ako 6 A/m. Ukázali sme, že magnetické parametre zostávajú neznížené pri následnom dlhodobom žíhaní pri predpokladaných extrémnych pracovných teplotách (viac ako 200 C po dobu 100 hod), čo úspešne preukázalo výhodnosť vyvinutých metód tepelného spracovania pri výraznom znížení energetickej náročnosti procesu.

17.) Dizajn zložitých kvantových meraní (DESCOM) *(Design of complex quantum measurements (DESCOM))*

Zodpovedný riešiteľ:	Mário Ziman
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0183/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 42555 €

Dosiahnuté výsledky:
V tomto roku publikovanych viac ako 15 publikácii, ktoré uzatvárajú a rozširujú pôvodné úlohy projektu.

Programy: APVV

18.) 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:	APVV: 8624 €

Dosiahnuté výsledky:
V rámci projektu v roku 2024 prebiehali pokročilé bio experimenty – 3D spheroid, ex ovo, in vivo, ktoré vyžadovali kontinuálnu prípravu biokonjugátov MoOx-ABPA-M75. Pri príprave konjugátov sme postupovali podľa protokolu vypracovanej v predchádzajúcej etape riešenia projketu. Rôzne série konjugátov boli charakterizované a ich fyzikalno-chemické vlastnosti kontinuálne porovnavané (Zeta potenciál, veľkosť, absorpčná charakteristika, fototermálny účinok). Bio experimenty ukázali byť mimoriadne úspešné. Vypracovný konjugát je schopný naviazať sa prednostne na rakovinové bunky a po aplikácii 808 nm žiarenia zničiť rakovinové bunky, a to pri všetkých typoch skúmaných modelov.

19.) 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:	APVV: 27780 €

Dosiahnuté výsledky:
Publikácie:
Pozvaná prednáška: I. Timchenko et al., Atomic Data and Nuclear Data Tables 160, 101674 (2024). DOI: 10.1016/j.adt.2024.101674. Publikácia: P. Papadakis et al., Phys. Lett.B 858, 139048 (2024). DOI: 10.1016/j.physletb.2024.139048.

20.) 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:	APVV: 2439 €

Dosiahnuté výsledky:
V projekte sme pokračovali s lokalizáciou FeOx nanočastíc v bunkách pomocou konfokálnej Ramanovej mikroskopie a MoOx nanočastíc pomocou skenovacej optickej mikroskopie blízkeho poľa (sSNOM). Vzorky fixovaných buniek boli pripravené partnerom projektu Institut Curie, Paris. Paralelne sa študovali fyzikálno-chemické vlastnosti nanočastíc a nanokonjugátov. Z tejto spolupráce vzniklo viacero spoločných konferenčných príspevkov na medzinárodných konferenciách RamanFest 24, NANOCON 2024.

21.) 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: 5705 €

Dosiahnuté výsledky:
Cieľom projektu je vyvinúť i) funkčné hydrogély podľa princípu „trójskeho koňa“ so zabudovanými fototermálnymi MoOx-RGD nanočasticovými konjugátmi, ii) overené in vitro a iii) doplnené o najmodernejšie štrukturálne a chemické mapovanie na nano-úrovni. V prvom polroku riešenia projektu sme sa zamerali na vývin stratégie funkcionalizácie pre nestechiometrické fototermálne nanočastice MoOx s RGD peptidmi. Študovali sme podmienky a parametre funkcionalizácie pri ktorých konjugáty sú schopné vyhľadať rakovinové bunky a špecificky sa internalizovať v nádore nad zdravým tkanivom. Zahájili sme prvé experimenty na lokalizáciu nanočastíc MoOx v bunkách pomocou skenovaciej optickej mikroskopie blízkeho poľa (sSNOM) s nano rozlíšením.

22.) 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:	APVV: 51565 €

Dosiahnuté výsledky:
Publikovaných bolo 7 článkov. Ďaľšie sú v príprave.

23.) 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: 3656 €

Dosiahnuté výsledky:
V prvej fáze projektu sme zdokonalili syntézu BaZrS3 vysokoteplotnou sulfurizáciou BaZrO3. Na tento účel sa testovali dva typy tenkých vrstiev. Konkrétne ide o tenké vrstvy nanesené pulzným laserom a tenké vrstvy nanesené rotačným nanášaním. Predbežné výsledky naznačujú, že oboma metódami možno vyrobiť tenké vrstvy BaZrS3 dostatočnej kvality.

24.) 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: 2650 €

Dosiahnuté výsledky:

25.) 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:	APVV: 29041 €

Dosiahnuté výsledky:

26.) 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: 30360 €

Dosiahnuté výsledky:
V roku 2024 sme sa zamerali hlavne na detailné skúmanie nukleácie lítia (Li) na rozhraní medzi tuhým elektrolytom Li6PS5Cl (LPSCl) a prúdovým zberačom na mikrometrovej a nanometrovej škále pomocou konfokálnej Ramanovej mikroskopie (CRM) a skenovacej optickej mikroskopie v blízkom poli (SNOM). Pre obidve použité metódy sme vyvíjali postupy prípravy batériovej cely s geometriou, kde sa fázové rozhranie skúmalo zhora. Pri nukleácii kovového Li sa na mikrometrovej škále rastroval povrch LPSCl a Ramanove spektá sa ukladali ako funkcia polohy pozdĺž rozhrania. Nukleáciu Li sme merali tiež v jednom bode v závislosti od času počas neustálej elektrodepozície Li. V rámci týchto experimentov sme:
- Optimalizovali skladanie batériového článku s reprodukovateľnosťou výsledkov.
- Optimalizovali sme podmienky depozície rôznych prúdových zberačov na sklenené okno a podmienky merania CRM v procese rastrovania povrchu a časového merania v jednom bode.
- Vytvorili sme prototyp Ramanovej cely pre CRM s osobitým dôrazom na prvú elektrodepozíciu a interpretovali získané údaje z hľadiska nukleácie Li.

Výsledky boli publikované v 4 CC časopisoch a 4 zborníkoch z konferencií.

27.) 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:	APVV: 31405 €

Dosiahnuté výsledky:

28.) Anódy pre Li-iónové batérie na báze uhlík-kremíkových kompozitov *(Carbon-silicon based composite anodes for Li-ion batteries)*

Zodpovedný riešiteľ:	Peter Šiffalovič
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0461
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 2675 €

Dosiahnuté výsledky:
V roku 2024 sme využili ALD vrstvy ZnO na stabilizáciu Si/Gr anód. Elektrochemické merania, ako napríklad galvanostatické nabíjanie/vybíjanie pri rôznych C-rýchlostiach a elektrochemická impedančná spektroskopia, sa uskutočnili s použitím pôvodných anód Si/Gr ako aj Si/Gr anód s 5-40 ALD cyklov ZnO v konfigurácii polovičného článku. Anódy s vrstvou ZnO vykazovali lepšiu elektrochemickú výkonnosť ako nepokryté anódy Si/Gr. Ultratenké vrstvy ZnO pasivujú Si/Gr elektródy, pomáhajú pri tvorbe stabilnej vrstvy SEI a uľahčujú transport lítiových iónov cez vrstvu SEI.

29.) 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:	APVV: 6242 €

Dosiahnuté výsledky:
V roku 2024 sme sa zamerali na určenie hĺbkových profilov rôznych prvkov v materiáloch na báze berýlia a prípadných ko-depozitných vrstiev, ktoré sa vytvárajú na stenách fúzneho zariadenia Joint

European Torus (JET). Hĺbkové profily odhadnuté pomocou LIBS sa porovnali s profilmi nameranými pomocou hmotnostnej spektrometrie sekundárnych iónov. V rôznych hĺbkach vrstiev bol predovšetkým získaný vývoj spektrálnych čiar Be, ako aj hlavných plynných prvkov, ako sú Ne, N, O a D, ktoré sú súčasťou vzoriek. Diagnostika LIBS umožnila vykonať pomerne presnú analýzu zistených spektrálnych čiar prvkov na vzorkách.

30.) 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:	APVV: 8413 €

Dosiahnuté výsledky:
V roku 2024 sme zistili, že postmodifikácia môže zvýšiť alebo zhoršiť mechanickú odolnosť a biokompatibilitu mikrokapsúl implantovaných do myších modelov, pričom najlepšie výsledky prekvapivo poskytli polykatióny. Analýzy konfokálnou Ramanovou mikroskopiou (CRM) a konfokálnou laserovou skenovacou mikroskopiou (CLSM) odhalili stabilné vrstvy interpolyelektrolytového komplexu v materskej mikrokapsule, ktoré bránia prístupu PE s vyššou molárnou hmotnosťou do jadra mikrokapsuly. Všetky mikrokapsuly vykazovali záporný povrchový zeta potenciál, čo naznačuje, že postmodifikované PE sa zachýtávajú v membráne mikrokapsuly, čo sa zhoduje s údajmi CLSM.

31.) 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:	APVV: 7477 €

Dosiahnuté výsledky:
V roku 2024 sme skúmali použitie ultratenkých povlakov Al2O3 nanesených pomocou ALD depozície na zlepšenie elektrochemických vlastností LiFePO4 katód v lítiovo-iónových batériách. Katódy potiahnuté 5 ALD cyklami vykazovali výrazne zvýšenú kapacitu pri vysokých rýchlostiach nabíjania/vybíjania v porovnaní s nemodifikovanými vzorkami. Konfigurácie plných článkov s pokrytými LiFePO4 tiež preukázali lepšiu výkonnosť a životnosť cyklov pre katódy pokryté ALD.

Operando XRD merania potvrdili ochranný charakter ALD vrstiev oxidu hlinitého tým, že ukázali reverzibilitu fázového prechodu LiFePO4 na FePO4 počas nabíjania/vybíjania.

32.) 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: 1875 €

Dosiahnuté výsledky:

33.) Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania *(Novel nano / micro-structured metallic materials prepared by unconventional processing routes)*

Zodpovedný riešiteľ:	Peter Švec
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0369
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 15900 €

Dosiahnuté výsledky:
Preskúmali sme vplyv termomagnetického spracovania v silných magnetických poliach na vybraných nanočasticových systémoch typu „core/shell“ pozostávajúcich z kovového kobaltového jadra obaleného vrstvičkou CoO. Nanočastice boli pripravené chemickou cestou (polyol technikou) a následnou kontrolovanou oxidáciou povrchu nanočastíc pri zvýšených teplotách na vzduchu. Podobne boli pripravené aj „core/shell“ nanočastice typu Fe3O4@CoFe2O4. Ich magnetické vlastnosti boli charakterizované pomocou SQUID magnetometrie. Vzorky po tepelnom spracovaní pri 300°C po dobu 90 min. vykazovali výrazný „exchange bias“ efekt, ktorý sa po ich schladení v silnom magnetickom poli (5 T) prejavil pri nízkych teplotách posunom stredu hysteréznych slučiek o 155 Oe oproti nulovej hodnote magnetického poľa. Výsledky magnetických meraní boli podporené simuláciami hysteréznych slučiek pomocou Monte-Carlo techniky a detailnou chemickou, fázovou a štruktúrnou analýzou s atomárnym rozlíšením.
Súbežne s expertimentálno-teoretickou činnosťou a vývojom metód nekonvenčného spracovania materiálov sme sa venovali využitiu prvoprincípových výpočtov na analýzu a predikciu experimentálne pozorovaných javov v aperiodických systémoch, kvázikryštáloch, klatrátoch a systémoch so špeciálnym usporiadaním a konfiguráciami zložiek v objeme alebo na rozhraniach so

špeciálnym ohľadom na chemickú interakciu na rozhraniach vrstiev a s plynným okolím. Pomocou DFT sme preskúmali dekagonálne kváziperiodické usporiadanie tenkých vrstiev Sn na d-Al-Ni-Co na základe experimentálnych pozorovaní pomocou STM a LEEDS s ohľadom na možnú kváziperiodicitu deponovanej tenkej vrstvy Sn. Ukázali sme, že táto sa zachováva plne do hrúbky 1 nm a kváziperiodický motív je detekovateľný až do vzdialenosti 10 nm, kde je už efektívny potenciál substrátu zanedbateľne malý. Pozorovania sa podarilo vysvetliť modelom aproximantov klatrátu a zobecniť ho.

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

Zodpovedný riešiteľ:	Peter Švec
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0124
Organizácia je koordinátorom projektu:	nie
Koordinátor:	MTF STU Trnava
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 18750 €

Dosiahnuté výsledky:
Pórovité kovy a najmä porézne viaczložkové zliatiny bez ohľadu na chemickú aktivitu komponentov môžu byť vyrobené metódou vapor-phase de-alloying (VPD), ktorá je založená na selektívnom odstránení komponentu s vysokým parciálnym tlakom pár (zvyčajne Zn) z prekurzorovej zliatiny. Pre aplikácie elektrokatalyzátorov je žiaduci vývoj poréznych materiálov na báze 3d prechodných kovov (TM), ktoré sú v porovnaní s ušľachtilými kovmi hojné a podstatne lacnejšie.

Pripravili sme pórovité viaczložkové 3d zliatiny prechodných kovov odstránením Zn prostredníctvom VPD z rýchlochladených pások s chemickým zložením TM7Zn93 a TM4Zn96, kde TM predstavovala vysokoentropickú zmes Mn, Fe, Co, Ni a Cu.

Fázové zloženie a mikroštruktúra pások v stave po odliatí a výsledné porézne materiály boli podrobne preskúmané metódami S/TEM-EDS, XRD, SEM a EDXRF. Výsledné pripravené porézne vysokoentropické zliatiny (HEA) mali hubovitú mikroštruktúru s bimodálnou veľkosťou pórov a ich povrchová plocha bola odhadnutá na 2–4 m2/g. Analýza distribúcie veľkosti pórov odhalila ich makro-mezoporéznu štruktúru.

Tvorba tuhého roztoku FCC (priestorová grupa Fm3m) počas VPD bola potvrdená pomocou XRD. Analýza STEM-EDS odhalila existenciu niekoľkých fáz v poréznom HEA. Identifikovali sme nanorozmerovú elementárnu/fázovú separáciu v oblasti FCC bohatú na Co a Cu s koherentnými rozhraniami naprieč jednotlivými kryštalickými zrnami.

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

Zodpovedný riešiteľ:	Peter Švec
Trvanie projektu:	1.7.2024 / 31.12.2027

Evidenčné číslo projektu:	APVV-23-0281
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 11160 €

Dosiahnuté výsledky:
Rozvinuli sme metodiku selekcie zložení a prípravy vysokoentropických zliatin (HEA) s využitím širokej škály ochladzovacích rýchlosti roztavenej zliatiny. Úpravou technológií prípravy bolo možné získať kovové systémy HEA rýchlym ochladením taveniny, odlievaním do kónickej formy a podtlakovým liatím. Takto bolo možné získať sériu systémov na báze FeNiCoAlMn s meniacim sa obsahom Al/Mn a so substitúciou časti hlavných prvkov dodatočným dolegovaním šiestym prvkom, menovite Cr, Cu alebo V. Ukázali sme, že je možné získať monofázové viaczložkové zliatiny v širšom koncentračnom intervale použitých prvkov a potvrdiť tak počiatočný predpoklad o zachovaní vysokej konfiguračnej entropie systémov.

Pomocou S/TEM-EDS sme identifikovali prítomnosť dendritickej štruktúry s nehomogénnym rozdelením Al a Mn na škálach od mikrometrov (pomalé a stredne rýchle ochladzovacie rýchlosti prípravy) po nanometre (rýchle ochladenie taveniny) a jej vývoj v závislosti od teploty. Korelovali sme teplotnú závislosť magnetizácie a parametrov hysterézných sľučiek s vývojom mikroštruktúry v týchto monofázových materiáloch.

36.) 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:	APVV: 11940 €

Dosiahnuté výsledky:
Zamerali sme sa na detailnú analýzu entropie previazania v jazyku tenzorových sietí. Zostrojili dve ekvivalentné reprezentácie štatistickej sumy: váhovanú a vertexovú. Kým vertexová reprezentácia je štandardom pri formulácii tenzorových sietí, tá váhovaná nie veľmi rozšírená. V oboch reprezentáciách ostávajú identické stredné hodnoty pozorovateľných veličín okrem entropie kvantového previazania. Tá je v prípade vertexovej reprezentácie menšia až na prípad, keď je hľadaný stav separabilný a entropia previazania je nulová. Tento neinuitivný výsledok sme spísali do dvoch rukopisov. Prvý z nich je vo finálnom štádiu recenzného konania vo Phys. Rev. E [arXiv:2406.03426].

Zároveň sme vytvorili nový algoritmus na konštrukciu tenzorovej siete v hyperbolickom priestore, ktorá nebola doposiaľ navrhnutá. Aj na nej pozorujeme fenomén slabého kvantového previazania

vertexovej reprezentácie, ako to je v euklidovskom priestore. Vytvorili sme aloritmus pre vertexovú reprezentáciu na 3D euklidovskej aj hyperbolickej mriežke. Študovali sme tiež účinky teórie efektívneho poľa so silnou väzbou pre asymetricky nabité platne iba s tzv. counterions, štrukturálne prechody v interagujúcich mriežkových systémoch a efektívnu interakciu medzi nábojmi ponorenými do 2D želé.

37.) 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:	Agentúra pre výskum a vývoj: 34019 €

Dosiahnuté výsledky:
Boli realizované dva experimenty v celkovom trvaní 21 dní zväzku. Experimenty prebehli na Univerzite v Jyväskylä vo Fínsku. Cieľom prvého experimentu bolo štúdium izomérických prechodov v izotope 181Au, cieľom druhého bolo meranie dôb života vzbudených stavov v izotope 179Au. Boli analyzované dáta z experimentu M20: izomérne prechody v 179Au a prechody v 179Pt. Celkovo bolo publikovaných 7 pôvodných vedeckých publikácií, bola obhájená 1 PhD. práca, jedna doktorská dizertácia (DrSc.), celkovo sa školili 3 doktorandky, boli podané 2 projekty do medzinárodnej súťaže: ERC Advanced Grant and MSC4U (Maria Sklodowska Curie for Ukraine - von Humboldt Insititute). Oba projekty postúpili do druhého kola hodnotenia a výsledok v súčasnosti nie je známy.

Programy: SASPRO

38.) 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:	SAV: 62832 €

Dosiahnuté výsledky:

39.) 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:	SAV: 58032 €

Dosiahnuté výsledky:

Programy: DoktoGrant

40.) Sequential decomposition and implementation of complex quantum measurements *(Sequential decomposition and implementation of complex quantum measurements)*

Zodpovedný riešiteľ:	Soham Sau
Trvanie projektu:	1.1.2024 / 31.12.2024
Evidenčné číslo projektu:	APP0482
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	DoktoGrant: 2000 €

Dosiahnuté výsledky:
Študent sa aktívne zúčastnil na konferencii a pripravil materiál pre publikáciu.

41.) Vplyv povrchových modifikácii na vlastnosti a bunkové interakcie fototermálnych nanočastíc MoOx

Zodpovedný riešiteľ:	Daniel Truchan
Trvanie projektu:	1.1.2024 / 31.12.2024
Evidenčné číslo projektu:	APP0492
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	DoktoGrant: 2000 €

Dosiahnuté výsledky:

Programy: Ministerstvo školstva, vedy, výskumu a športu

42.) 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:	Ministerstvo školstva, výskumu, vývoja a mládeže SR: 110000 €

Dosiahnuté výsledky:
Bol vybudovaný nový detekčný systém spektrometra TATRA pre detekciu konverzných elektrónov s vysokým rozlíšením.

Programy: IMPULZ

43.) 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:	SAV: 122236 €

Dosiahnuté výsledky:
Zorganizoval sa jeden workshop a vyšlo sedem publikácií:
- Magnetotransport and Spin-Relaxation Signatures of the Radial Rashba and Dresselhaus Spin-Orbit Coupling in Proximitized Graphene
- Superconducting Diode Effect in Quantum Spin Hall Insulator-based Josephson Junctions
- Detecting the spread of valence band Wannier functions by optical sum rules
- Swapping exchange and spin-orbit induced correlated phases in proximitized Bernal bilayer graphene
- Dirac Landau levels for surfaces with constant negative curvature
- Link between supercurrent diode and anomalous Josephson effect revealed by gate-controlled interferometry
- Emergent Correlated Phases in Rhombohedral Trilayer Graphene Induced by Proximity Spin-Orbit and Exchange Coupling.

44.) 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:	SAV: 32750 €

Dosiahnuté výsledky:
Jedna publikácia akceptovaná.

Programy: Plán obnovy EÚ

45.) 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:	VAIA: 37077 €

Dosiahnuté výsledky:

46.) 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:	VAIA: 37077 €

Dosiahnuté výsledky:

47.) 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:	VAIA: 25361 €

Dosiahnuté výsledky:
V roku 2024 sa projekt len rozbiehal, pripravuje sa zaslanie dvoch publikácií.

48.) 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:	VAIA: 57840 €

Dosiahnuté výsledky:

49.) 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 koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VAIA: 47280 €

Dosiahnuté výsledky:

50.) 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:	VAIA: 47552 €

Dosiahnuté výsledky:
Práce začali podľa plánu.

51.) 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:	VAIA: 33084 €

Dosiahnuté výsledky:
Študenti získali potrebné kredity a pracujú na výskumných úlohách pod vedením školiteľov.

Príloha A-3

Publikačná činnosť organizácie

Príloha je generovaná z ARL.

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

ABC01 BODIK, Michal - ŠIFFALOVIČ, Peter. Langmuir films—a universal method for fabricating organized monolayers from nanomaterials. In Materials Nanoarchitectonics : From Integrated Molecular Systems to Advanced Devices. 1. vyd. - Amsterdam : Elsevier, 2024, pp. 255-279. ISBN 978-0-323-99472-9. Dostupné na: https://doi.org/10.1016/B978-0-323-99472-9.00003-1

ABC02 LUBY, Štefan**. Perspective of Nanomaterials and Nanomedicine Procedures in Molecular Hydrogen Therapy. In Molecular Hydrogen in Health and Disease. - Cham : Springer, 2024, pp. 435-449. ISBN 978-3-031-47374-6. Dostupné na: https://doi.org/10.1007/978-3-031-47375-3_25 (VEGA č. 2/0142/23 : Analýza mechanizmu detekcie chemoodporových nanoštruktúrovaných senzorov na báze oxidov kovov)

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01 ADACHI, Yuuki - TURANSKÝ, Robert - BRNDIAR, Ján - TOKÁR, Kamil - ZHU, Qiang - WEN, Huan Fei - SUGAWARA, Yasuhiro - ŠTICH, Ivan - LI, Yanjun**. Mechanocatalysis of CO to CO2 on TiO2 surface controlled at atomic scale. In Nano Research, 2024, vol. 17, no. 7, p. 5826-5834. (2023: 9.5 - IF, Q1 - JCR, 2.539 - SJR, Q1 - SJR). ISSN 1998-0124. Dostupné na: https://doi.org/10.1007/s12274-024-6539-z

ADCA02 AFANAS'YEV, S. V. - ANISIMOV, Yu. S. - BASKOV, V. A. - DRYABLOV, D. K. - DUBINCHIK, B. V. - GMUCA, Štefan - KLIMAN, Ján - KOLESNIKOV, R. Yu. - KRECHETOV, Yu. F. - KUTINOVA, O. V. - KUZNETSOV, A. S. - L'VOV, A. I. - MALAKHOV, A. I. - MATOUŠEK, Vladislav - POLYANSKII, V. V. - SAKULIN, D. G. - SIDORIN, S. S. - SMIRNOV, V. A. - SUKHOV, E. V. - USTINOV, V. V. - VARTIK, V. - VOCAL, S. Three-Arm Spectrometer Scan-3 on Nuclotron Internal Targets. In Physics of Particles and Nuclei, 2024, vol. 55, no. 4, p. 1119-1123. (2023: 0.6 - IF, Q4 - JCR, 0.26 - SJR, Q3 - SJR). ISSN 1063-7796. Dostupné na: https://doi.org/10.1134/S1063779624700813

ADCA03 ALAM, Shahidul** - ALDOSARI, Haya - PETOUKHOFF, Christopher E. - VÁRY, Tomáš - ALTHOBAITI, Wejdan - ALQURASHI, Maryam - TANG, Hua - KHAN, Jafar I. - NÁDAŽDY, Vojtech - MÜLLER-BUSCHBAUM, Peter - WELCH, Gregory C. - LAQUAI, Frédéric. Thermally-Induced Degradation in PM6:Y6-Based

Bulk Heterojunction Organic Solar Cells. In Advanced Functional Materials, 2024, vol. 34, art. no. 2308076. (2023: 18.5 - IF, Q1 - JCR, 5.496 - SJR, Q1 - SJR). ISSN 1616-301X. Dostupné na: https://doi.org/10.1002/adfm.202308076 (VEGA č. 2/0165/22 : Hľadanie optimálnych štruktúrnych a elektronických vlastností organických polovodičových vrstiev)

ADCA04 ALAM, Shahidul - PETOUKHOFF, Christopher E - JURADO, José P - ALDOSARI, Haya - JIANG, Xinyu - VÁRY, Tomáš - NASSER, Hamza Al - DAHMAN, Amr - ALTHOBAITI, Wejdan - LOPEZ, Sandra P Gonzalez - ALSUFYANI, Wejdan - MÜLLER-BUSCHBAUM, Peter - NÁDAŽDY, Vojtech - HOPPE, Harald - LAQUAI, Frédéric. Influence of thermal annealing on microstructure, energetic landscape and device performance of P3HT:PCBM-based organic solar cells. In Journal of Physics: Energy, 2024, vol. 6, no. 2, art. no. 025013. (2023: 7.0 - IF, Q1 - JCR, 1.661 - SJR, Q1 - SJR). ISSN 2515-7655. Dostupné na: https://doi.org/10.1088/2515-7655/ad2498 (VEGA č. 2/0165/22 : Hľadanie optimálnych štruktúrnych a elektronických vlastností organických polovodičových vrstiev)

ADCA05 AYYANUSAMY, Poongodi - THARANI. D, Swathi - ALPHONSE, Ruby - MINAKSHI, Manickam - SIVASUBRAMANIAN, R. Synthesis of Amorphous Nickel-Cobalt Hydroxides for Ni-Zn Batteries. In Chemistry -A European Journal, 2024, vol. 30, no. 59, art. no. e202402325. (2023: 3.9 - IF, Q2 - JCR, 1.058 - SJR, Q1 - SJR). ISSN 0947-6539. Dostupné na: https://doi.org/10.1002/chem.202402325

ADCA06 BALOG, Martin** - KRÍŽIK, Peter - ŠKOLÁKOVÁ, Andrea - ŠVEC, Peter Jr. - KUBÁSEK, Jiří - PINC, Jan - DE CASTRO, Moara Marques - FIGUEIREDO, Roberto. Hall-Petch strengthening in ultrafine-grained Zn with stabilized boundaries. In Journal of Materials Research and Technology-JMR&T, 2024, vol. 33, p. 7458-7468. (2023: 6.2 - IF, Q1 - JCR, 1.091 - SJR, Q1 - SJR). ISSN 2238-7854. Dostupné na: https://doi.org/10.1016/j.jmrt.2024.11.132 (09I03-03-V04-00718 : Nové biologicky vstrebateľné kompozity na báze Zn s vlastnosťami optimalizovanými pre implantológiu. APVV-20-0417 : Vývoj unikátneho TiMg kompozitného zubného implantátu. VEGA č. 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov. APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania. ITMS2014+: 313021T081 : Vybudovanie Centra pre využitie pokročilých materiálov Slovenskej akadémie vied)

ADCA07 BÉTERMIN, Laurent - ŠAMAJ, Ladislav - TRAVĚNEC, Igor. Structural transitions in interacting lattice systems. In Analysis and Mathematical Physics, 2024, vol. 14, no. 2, art. no. 27. (2023: 1.4 - IF, Q1 - JCR, 0.774 - SJR, Q1 - SJR). ISSN 1664-2368. Dostupné na: https://doi.org/10.1007/s13324-024-00888-0 (APVV-20-0150 : Perspektívne elektrónové spinové systémy pre budúce kvantové technológie. VEGA č. 2/0089/24 : Efektívne interakcie v nízkoteplotnej termodynamike coulombovských systémov)

ADCA08 BHAKUN, Pramod - KRAJČÍ, Marián** - BARMAN, Sudipta Roy. Quasiperiodic gallium adlayer on i-Al-Pd-Mn. In Physical Review B, 2024, vol. 109, no. 4, art. no. 045427. (2023: 3.2 - IF, Q2 - JCR, 1.345 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: https://doi.org/10.1103/PhysRevB.109.045427 (VEGA č. 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov. APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania)

ADCA09 BIRAL, Elias J P - MÓLLER, Natália Salomé - PELSTER, Axel - DOS SANTOS, F Ednilson A. Bose-Einstein condensates and the thin-shell limit in anisotropic bubble traps. In New Journal of Physics, 2024, vol.26, no. 1, art. no. 013035. (2023: 2.8 - IF,

Q2 - JCR, 1.09 - SJR, Q1 - SJR). ISSN 1367-2630. Dostupné na: https://doi.org/10.1088/1367-2630/ad1a29 (APVV-18-0518 : Optimalizačné metódy pre kvantové technológie. VEGA č. 2/0156/22 : Kvantové simulácie a modelovanie interakčých sietí (QuaSiModo))

ADCA10 BUTVINOVÁ, Beata** - ŠVEC, Peter - GEJDOŠ JANOTOVÁ, Irena - DIAS, Leonardo Viana - JANIČKOVIČ, Dušan - MAŤKO, Igor. Magnetic properties and structure of short-term annealed FeCuBPSi nanocrystalline alloys. In Journal of Magnetism and Magnetic Materials, 2024, vol. 590, art. no. 171662. (2023: 2.5 - IF, Q3 - JCR, 0.522 - SJR, Q2 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: https://doi.org/10.1016/j.jmmm.2023.171662 (VEGA č. 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov. APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania)

ADCA11 CÁRDENAS-CASTILLO, Luis F. - ZHANG, Shuai - FREIRE JR., Fernando L. - KOCHAN, Denis - CHEN, Wei. Detecting the spread of valence band Wannier functions by optical sum rules. In Physical Review B, 2024, vol. 110, no. 7, art. no. 075203. (2023: 3.2 - IF, Q2 - JCR, 1.345 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: https://doi.org/10.1103/PhysRevB.110.075203

ADCA12 CVITKOVICH, Lukas - STAŇO, Peter - WILHELMER, Christoph - WALDHÖR, Dominic - LOSS, Daniel - NIQUET, Yann-Michel - GRASSER, Tibor. Coherence limit due to hyperfine interaction with nuclei in the barrier material of Si spin qubits. In Physical Review Applied, 2024, vol. 22, no. 6, art. no. 064089. (2023: 3.8 - IF, Q2 - JCR, 1.335 - SJR, Q1 - SJR). ISSN 2331-7019. Dostupné na: https://doi.org/10.1103/PhysRevApplied.22.064089

ADCA13 DIXIT, Aparna - ABRAHAM, Jisha Annie - MANZOOR, Mumtaz - ALTAF, Mohammad - KUMAR, Yedluri Anil - SHARMA, Ramesh. A comprehensive DFT analysis of the physical, optoelectronic and thermoelectric attributes of Ba2lnNbO6 double perovskites for eco-friendly technologies. In Materials Science and Engineering B - Solid-State Materials for Advanced Technology, 2024, vol. 307, no. 11, art. no. 117530. (2023: 3.9 - IF, Q2 - JCR, 0.647 - SJR, Q2 - SJR). ISSN 0921-5107. Dostupné na: https://doi.org/10.1016/j.mseb.2024.117530 (VEGA č. 2/0070/21 : Nízko-dimenzionálne materiály- manipulácia, funkcionalizácia a bioaplikácie: LOW-D-MATTER. APVV-21-0272 : Štúdium elektrónových vlastností 2D materiálov ultra presnými metódami kvantového Monte Carla)

ADCA14 DO, Hung Manh - LE, Thi Hong Phong - TRAN, Dang Thanh - NGUYEN, Thi Ngoc Anh - ŠKORVÁNEK, Ivan** - KOVÁČ, Jozef - ŠVEC, Peter Jr. - PHAN, Manh Huong. Magnetic interaction effects in Fe3O4@CoFe2O4 core/shell nanoparticles. In Journal of Science: Advanced Materials and Devices, 2024, vol. 9, art. no. 100658. (2023: 6.7 - IF, Q1 - JCR, 1.2 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 2468-2179. Dostupné na: https://doi.org/10.1016/j.jsamd.2023.100658 (APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania)

ADCA15 DOLATKHAH, Hazhir** - CZERWINSKI, Artur - ALI, Asad - AL-KUWARI, Saif - HADDADI, Saeed. Tripartite measurement uncertainty in Schwarzschild space-time. In European Physical Journal C, 2024, vol. 84, no. 11, art. no. 1162. (2023: 4.2 - IF, Q2 - JCR, 1.451 - SJR, Q1 - SJR). ISSN 1434-6044. Dostupné na: https://doi.org/10.1140/epjc/s10052-024-13554-3 (VEGA č. 2/0183/21 : Dizajn zložitých kvantových meraní (DESCOM))

ADCA16 DUBNIČKA, Stanislav - DUBNIČKOVÁ, Anna Zuzana - IVANOV, Mikhail A. -

LIPTAJ, Andrej** - TYULEMISSOVA, Akmaral - TYULEMISSO, Zhomart. Analyzing leptonic decays of heavy quarkonia in the covariant confined quark model. In Physical Review D, 2024, vol. 110, no. 5, art. no. 056030. (2023: 4.6 - IF, Q1 - JCR, 1.587 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: https://doi.org/10.1103/PhysRevD.110.056030 (VEGA č. 2/0105/21 : Využitie SU(3) symetrie a analytičnosti na nové teoretické vyhodnotenie g-2 anomálie, predpovedanie správania sa hyperónových elektromagnetických formfaktorov a vyhodnotenie vybraných rozpadov hadrónov)

ADCA17 FUJITA, Nobuhisa - MIHALKOVIČ, Marek** - HENLEY, Christopher L. Canonical-cell tilings and their atomic decorations. In Israel Journal of Chemistry, 2024, vol. 64, no. 10-11, art. no. e202300130. (2023: 2.3 - IF, Q3 - JCR, 0.987 - SJR, Q1 - SJR). ISSN 0021-2148. Dostupné na: https://doi.org/10.1002/ijch.202300130 (APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania. APVV-20-0124 : Nové zliatiny s viacerými základnými prvkami – dizajn, charakterizácia a vlastnosti. VEGA č. 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov)

ADCA18 FÜRST, Maximilian - KOCHAN, Denis - DUSA, Ioachim-Gheorghe - GORINI, Cosimo - RICHTER, Klaus. Dirac Landau levels for surfaces with constant negative curvature. In Physical Review B, 2024, vol. 109, no. 19, art. no. 195433. (2023: 3.2 - IF, Q2 - JCR, 1.345 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: https://doi.org/10.1103/PhysRevB.109.195433 (VEGA č. 2/0156/22 : Kvantové simulácie a modelovanie interakčých sietí (QuaSiModo))

ADCA19 GHASEMI, Bita - ŠEVČÍK, Jakub - TOUŠKOVÁ, Jana - TOUŠEK, Jiří - KLOSSE, Patricie - NÁDAŽDY, Vojtech - VÉGSÖ, Karol - ŠIFFALOVIČ, Peter - HANULÍKOVÁ, Barbora - URBÁNEK, Michal - KUŘITKA, Ivo - URBÁNEK, Pavel. Trade-off between high performance and long life due to nanofiller effects in polymer LEDs: MEH-PPV/Al2O3 nanocomposite study. In Applied Surface Science, 2024, vol. 657, no.15, art. no. 159807. (2023: 6.3 - IF, Q1 - JCR, 1.21 - SJR, Q1 - SJR). ISSN 0169-4332. Dostupné na: https://doi.org/10.1016/j.apsusc.2024.159807 (VEGA č. 2/0165/22 : Hľadanie optimálnych štruktúrnych a elektronických vlastností organických polovodičových vrstiev. APVV-22-0132 : Bezanódové tuholátkové lítiové batérie)

ADCA20 GUESNAY, Quentin - SAHLI, Florent - ARTUK, Kerem - TURKAY, Deniz - KUBA, Austin G. - MRKÝVKOVÁ, Naďa, Tesařová - VÉGSÖ, Karol - ŠIFFALOVIČ, Peter - SCHREIBER, Frank - LAI, Huagui - FU, Fan - LEDINSKÝ, Martin - FÜRST, Nicolas - SCHAFFLÜTZEL, Aymeric - BUCHER, Cédric - JEANGROS, Quentin - BALLIF, Christophe - WOLFF, Christian M. Pizza Oven Processing of Organohalide Perovskites (POPOP): A Simple, Versatile and Efficient Vapor Deposition Method. In Advanced Energy Materials, 2024, vol. 14, no. 10, art. no. 2303423. (2023: 24.4 - IF, Q1 - JCR, 8.748 - SJR, Q1 - SJR). ISSN 1614-6832. Dostupné na: https://doi.org/10.1002/aenm.202303423 (APVV-21-0297 : Pokročilé perovskitové solárne články s optimalizovanou pasiváciou a štruktúrou)

ADCA21 HASSAN, Haseebul - ROMMAN, Ume - IQBAL, M. Waqas - AFZAL, Amir Muhammad - YASEEN, Tahmina - SUNNY, Muhammad Arslan - MOHAMMAD, Saikh - ALOTAIBI, Nouf H. - MANZOOR, Mumtaz. “Synergistic hybridization of Mn-MOF@rGO and Ti3C2 for high-performance supercapattery devices and hydrogen evolution reaction”. In Materials Chemistry and Physics, 2024, vol. 327, no. 12, art. no. 129914. (2023: 4.3 - IF, Q2 - JCR, 0.769 - SJR, Q1 - SJR). ISSN 0254-0584. Dostupné na: https://doi.org/10.1016/j.matchemphys.2024.129914

ADCA22 HEINOSAARI, Teiko - LEPPÄJÄRVI, Leevi - PLÁVALA, Martin. Encoding and decoding of information in general probabilistic theories. In International Journal of Quantum Information, 2024, vol. 22, no. 5, . art. no. 2440007. (2023: 0.7 - IF, Q3 - JCR, 0.25 - SJR, Q3 - SJR). ISSN 0219-7499. Dostupné na: https://doi.org/10.1142/S0219749924400070 (APVV-22-0570 : Navrhovanie kvantových štruktúr vyššieho rádu. VEGA č. 2/0183/21 : Dizajn zložitých kvantových meraní (DESCOM))

ADCA23 HEINOSAARI, Teiko - KERPPO, Oskari - LEPPÄJÄRVI, Leevi** - PLÁVALA, Martin. Simple Information Processing Tasks with Unbounded Quantum Advantage. In Physical Review A, 2024, vol. 109, no. 3, art. no. 032627. (2023: 2.6 - IF, Q2 - JCR, 1.081 - SJR, Q1 - SJR). ISSN 1050-2947. Dostupné na: https://doi.org/10.1103/PhysRevA.109.032627 (VEGA č. 2/0183/21 : Dizajn zložitých kvantových meraní (DESCOM). APVV-22-0570 : Navrhovanie kvantových štruktúr vyššieho rádu)

ADCA24 HRDÁ, Jana** - MOŠKO, Martin - PÍŠ, I. - VOJTEKOVÁ, Tatiana - PRIBUSOVÁ SLUŠNÁ, Lenka - HUTÁR, Peter - PRECNER, Marián - DOBROČKA, Edmund - ŠPANKOVÁ, Marianna - HULMAN, Martin - CHROMIK, Štefan - ŠIFFALOVIČ, Peter - BONDINO, F. - SOJKOVÁ, Michaela**. Investigating structural, optical, and electron-transport properties of lithium intercalated few-layer MoS2 films: Unraveling the influence of disorder. In Applied Physics Letters, 2024, vol. 124, no. 12, art. no. 123101. (2023: 3.5 - IF, Q2 - JCR, 0.976 - SJR, Q1 - SJR). ISSN 0003-6951. Dostupné na: https://doi.org/10.1063/5.0191046 (APVV-19-0365 : Metalické 2D dichalkogenidy prechodných kovov: príprava, štúdium vlastností a korelované stavy)

ADCA25 IQBAL, M. Waqas - TEHSEEN, Arzoo - MANZOOR, Mumtaz - ASGHAR, Mazia - SADIQUE, Iqra - WABAIDUR, Saikh Mohammad - TAWFEEK, Ahmed M. - IBAD-UR-REHMAN - ASLAM, Muhammad. Predicting the electronic, optical, and thermometric properties of novel K2LiSbX6 (X = Cl, Br, I) semiconductors: A first-principles study. In Computational and Theoretical Chemistry, 2024, vol. 1238, no. 11, art. no. 114736. (2023: 3 - IF, Q3 - JCR, 0.405 - SJR, Q2 - SJR). ISSN 2210-271X. Dostupné na: https://doi.org/10.1016/j.comptc.2024.114736 (APVV-21-0272 : Štúdium elektrónových vlastností 2D materiálov ultra presnými metódami kvantového Monte Carla. VEGA č. 2/0070/21 : Nízko-dimenzionálne materiály-manipulácia, funkcionalizácia a bioaplikácie: LOW-D-MATTER)

ADCA26 ISMAEL, Islam Mohammed Ahmed - MRLÍK, Miroslav - VYKYDALOVÁ, Anna - HVIZDOŠOVÁ, Adriana, Annušová - HALAHOVETS, Yuriy - MOSNÁČEK, Jaroslav** - DANKO, Martin**. Polyester networks based on Tulipalin A and epsilon-caprolactone and activation of the Thioether groups by incorporation of trialkylsulfonium salts. In Polymers for Advanced Technologies, 2024, vol. 35, no. 4, art.no. e6404, [14] p. (2023: 3.1 - IF, Q2 - JCR, 0.584 - SJR, Q2 - SJR). ISSN 1042-7147. Dostupné na: https://doi.org/10.1002/pat.6404

ADCA27 JAMIL, Muhammad - MANZOOR, Mumtaz** - KUMAR, Abhinav - AGRAWAL, Ashish - ALMEER, Rafa - KUMAR, Yedluri Anil - SHARMA, Ramesh. A DFT theoretical prediction of new half-metallic ferromagnetism, mechanical stability, optoelectronic and thermoelectric properties of ZnCrO3 perovskites for spintronic applications. In Solid State Communications, 2024, vol. 394, no. 11, art. no. 115702. (2023: 2.1 - IF, Q3 - JCR, 0.414 - SJR, Q2 - SJR). ISSN 0038-1098. Dostupné na: https://doi.org/10.1016/j.ssc.2024.115702

ADCA28 KANG, Wun-Hao - BARTH, Michael - COSTA, Andreas - GARCIA-RUIZ, Aitor - MREŃCA-KOLASIŃSKA, Alina - LIU, Ming-Hao - KOCHAN, Denis**. Magnetotransport and Spin-Relaxation Signatures of the Radial Rashba and Dresselhaus Spin-Orbit Coupling in Proximitized Graphene. In Physical Review

Letters, 2024, vol. 133, no. 21, art. no. 216201. (2023: 8.1 - IF, Q1 - JCR, 3.04 - SJR, Q1 - SJR). ISSN 0031-9007. Dostupné na: https://doi.org/10.1103/PhysRevLett.133.216201 (VEGA č. 2/0183/21 : Dizajn zložitých kvantových meraní (DESCOM))

ADCA29 KANITSCHAR, Florian - BERGMAYR-MANN, Alexandra - PIVOLUSKA, Matej** - HUBER, Marcus. Harnessing high-dimensional temporal entanglement using limited interferometric setups. In Physical Review Applied, 2024, vol. 22, no. 5, art. no. 054054. (2023: 3.8 - IF, Q2 - JCR, 1.335 - SJR, Q1 - SJR). ISSN 2331-7019. Dostupné na: https://doi.org/10.1103/PhysRevApplied.22.054054

ADCA30 KAVETSKYY, Taras** - SMUTOK, Oleh - GOZDZIUK-GONTARZ, Magdalena - ZGARDZIŃSKA, Bozena - KUKHAZH, Yuliia - ZUBRYTSKA, Khrystyna - HOIVANOVYCH, Nataliia - ŠAUŠA, Ondrej - DEMKIV, Olha - STASYUK, Nataliya - GONCHAR, Mykhailo - OSTRAUSKAITE, Jolita - KIV, Arnold - KATZ, Evgeny. Impact of chemical composition of soybean oil and vanillin-based photocross-linked polymers on parameters of electrochemical biosensors. In Microchemical Journal, 2024, vol. 201, no. 11, art. no. 110618. (2023: 4.9 - IF, Q1 - JCR, 0.742 - SJR, Q1 - SJR). ISSN 0026-265X. Dostupné na: https://doi.org/10.1016/j.microc.2024.110618 (APVV-21-0335 : Zmeny mikroštruktúry a fyzikálnych vlastností zosieťovaných polymérov v objeme a v uväznených podmienkach makro- a mezopórov. VEGA č. 2/0134/21 : Fyzikálne vlastnosti uväznenej vody v prostredí lipidových dvojvrstiev a vplyv kryoprotektív)

ADCA31 KERN, S. - NEILINGER, Pavol - POLÁČKOVÁ, M. - BARÁNEK, M. - PLECENIK, T. - ROCH, T. - GRAJCAR, Miroslav. Optical and transport properties of NbN thin films revisited. In Physical Review B, 2024, vol. 110, no. 24, art. no. 245131. (2023: 3.2 - IF, Q2 - JCR, 1.345 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: https://doi.org/10.1103/PhysRevB.110.245131

ADCA32 KHERA, Ejaz Ahmad - NAZIR, Abrar - MANZOOR, Mumtaz - AYUB, Muzna - HUSSAIN, Fayyaz - AL-ASBAHI, Bandar Ali - SHARMA, Ramesh. First principles exploration of structural stability, optoelectronic and thermoelectric properties of BaXO3 (X = Hf, Ti, V) for solar cell applications. In Materials Today Communications, 2024, vol. 39, no. 10, art. no. 108629. (2023: 3.7 - IF, Q2 - JCR, 0.671 - SJR, Q2 - SJR). ISSN 2352-4928. Dostupné na: https://doi.org/10.1016/j.mtcomm.2024.108629

ADCA33 KLBIK, Ivan**. Is post-hypertonic lysis of human red blood cells caused by excessive cell volume regulation? In Cryobiology, 2024, vol. 114, art. no. 104795. (2023: 2.3 - IF, Q2 - JCR, 0.551 - SJR, Q2 - SJR). ISSN 0011-2240. Dostupné na: https://doi.org/10.1016/j.cryobiol.2023.104795 (APVV-21-0335 : Zmeny mikroštruktúry a fyzikálnych vlastností zosieťovaných polymérov v objeme a v uväznených podmienkach makro- a mezopórov. VEGA č. 2/0134/21 : Fyzikálne vlastnosti uväznenej vody v prostredí lipidových dvojvrstiev a vplyv kryoprotektív)

ADCA34 KROH, Daniel - ATHANASOPOULOS, Stavros - NÁDAŽDY, Vojtech - KAHLE, Frank-Julian - BÄSSLER, Heinz - KÖHLER, Anna. An Impedance Study of the Density of States Distribution in Blends of PM6:Y6 in Relation to Barrierless Dissociation of CT States. In Advanced Functional Materials, 2024, vol. 34, no. 50, art. no. 2302520. (2023: 18.5 - IF, Q1 - JCR, 5.496 - SJR, Q1 - SJR). ISSN 1616-301X. Dostupné na: https://doi.org/10.1002/adfm.202302520 (VEGA č. 2/0165/22 : Hľadanie optimálnych štruktúrnych a elektronických vlastností organických polovodičových vrstiev)

ADCA35 KUMAR, Vinay - KUMAR, Deepak - CHAVAN, Rohit D. - KUMAR, Kodali Phani - YADAGIRI, Bommaramoni - ANS, Muhammad - KRUSZYNSKA, Joanna - MAHAPATRA, Apurba - NAWROCKI, Jan - NIKIFOROW, Kostiantyn -

MRKÝVKOVÁ, Naďa, Tesařová - ŠIFFALOVIČ, Peter - YADAV, Pankaj - AKIN, Seckin - SINGH, Surya Prakash - PROCHOWICZ, Daniel. Molecular modification of spiro[fluorene-9,9´-xanthene]-based dopant-free hole transporting materials for perovskite solar cells. In Journal of Materials Chemistry A, 2024, vol. 12, no. 14, p. 8370-8380. (2023: 10.7 - IF, Q1 - JCR, 2.804 - SJR, Q1 - SJR). ISSN 2050-7488. Dostupné na: https://doi.org/10.1039/d3ta07851e (APVV-21-0297 : Pokročilé perovskitové solárne články s optimalizovanou pasiváciou a štruktúrou)

ADCA36 KUMARI, Anjali - DIXIT, Aparna - ABRAHAM, Jisha Annie - MANZOOR, Mumtaz - KUMAR, Abhinav - PARVEZ, Mohammad Khalid - KUMAR, Yedluri Anil - MISHRA, Abhishek Kumar - SHARMA, Ramesh. Tuning optoelectronic and thermoelectric attributes of Na2GeX6 (X = Br, Cl) halide double perovskites for high-efficiency solar cells applications. In Materials Science and Engineering B - Solid-State Materials for Advanced Technology, 2024, vol. 310, no. 11, art. no. 117761. (2023: 3.9 - IF, Q2 - JCR, 0.647 - SJR, Q2 - SJR). ISSN 0921-5107. Dostupné na: https://doi.org/10.1016/j.mseb.2024.117761

ADCA37 KUMARI, Anjali - ABRAHAM, Jisha Annie - MANZOOR, Mumtaz - MISHRA, Abhishek Kumar - GHFAR, Ayman A. - KUMAR, Yedluri Anil - SHARMA, Ramesh. Exploring the physical properties of novel double perovskites A2InAsO6 (A= Sr, Ba) for renewable energy applications: Ab-initio calculations. In Solid State Communications, 2024, vol. 392, no. 11, art. no. 115654. (2023: 2.1 - IF, Q3 - JCR, 0.414 - SJR, Q2 - SJR). ISSN 0038-1098. Dostupné na: https://doi.org/10.1016/j.ssc.2024.115654

ADCA38 KUMBHAKAR, Jaidev - ABRAHAM, Jisha Annie - SRIVASTAVA, Anshuman - MEENA, K. L. - MANZOOR, Mumtaz - GHFAR, Ayman A. - SHARMA, Ramesh. Synergistic modulation of SLME and thermal transport toward promising p-type lead-free halide semiconductors In2TiX6 (X = Br, I) via first principles analysis. In International Journal of Quantum Chemistry, 2024, vol. 124, no. 11, art. no. e27424. (2023: 2.3 - IF, Q2 - JCR, 0.393 - SJR, Q3 - SJR). ISSN 0020-7608. Dostupné na: https://doi.org/10.1002/qua.27424

ADCA39 KUNCA, Branislav** - MARCIN, Jozef - ŠVEC, Peter - ŠKORVÁNEK, Ivan. Thermal stability and magnetic properties of the nanocrystalline (Fe64Co21B15)99Cu1 high-Bs alloy at elevated temperatures. In Journal of Magnetism and Magnetic Materials, 2024, vol. 591, art. no. 171679. (2023: 2.5 - IF, Q3 - JCR, 0.522 - SJR, Q2 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: https://doi.org/10.1016/j.jmmm.2023.171679 (APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania)

ADCA40 LEPPÄJÄRVI, Leevi** - SEDLÁK, Michal**. Incompatibility of quantum instruments. In Quantum : the open journal for quantum science, 2024, vol. 8, art. no. 1246. (2023: 5.1 - IF, Q1 - JCR, 2.562 - SJR, Q1 - SJR). ISSN 2521-327X. Dostupné na: https://doi.org/10.22331/q-2024-02-12-1246 (APVV-22-0570 : Navrhovanie kvantových štruktúr vyššieho rádu. VEGA č. 2/0183/21 : Dizajn zložitých kvantových meraní (DESCOM))

ADCA41 LEPPÄJÄRVI, Leevi** - NECHITA, Ion - SENGUPTA, Ritabrata. Generating random Gaussian states. In Journal of Mathematical Physics, 2024, vol. 68, no. 8, art. no. 082201. (2023: 1.2 - IF, Q3 - JCR, 0.569 - SJR, Q2 - SJR). ISSN 0022-2488. Dostupné na: https://doi.org/10.1063/5.0202147 (APVV-22-0570 : Navrhovanie kvantových štruktúr vyššieho rádu. VEGA č. 2/0183/21 : Dizajn zložitých kvantových meraní (DESCOM))

ADCA42 LING, JinKiong* - CUZZUPE, Daniele T.* - DIN, Muhammad Faraz Ud - STEPURA, Anastasiia - BURGARD, Tom - TEMITMIE, Yekitwork Abebe -

MAJKOVÁ, Eva - OMASTOVÁ, Mária - JOSE, Rajan - SCHMIDT-MENDE, Lukas** - FAKHARUDDIN, Azhar. MXene-embedded PEDOT:PSS hole-transport material for lead-free perovskite solar cells. In ACS Applied Energy Materials, 2024, vol. 7, no. 17, p. 7152-7158. (2023: 5.4 - IF, Q2 - JCR, 1.467 - SJR, Q1 - SJR). ISSN 2574-0962. Dostupné na: https://doi.org/10.1021/acsaem.3c02928 (APVV-19-0465 : Hybridné nízkorozmerné vrstevnaté materiály s novými funkciami)

ADCA43 LIPTAJ, Andrej**. Round-Off Error Suppression by Statistical Averaging. In Axioms, 2024, vol. 13, no. 9, art. no. 615, [24] p. (2023: 1.9 - IF, Q1 - JCR). ISSN 2075-1680. Dostupné na: https://doi.org/10.3390/axioms13090615

ADCA44 LIPTAJ, Andrej**. General Approach to Function Approximation. In Mathematics, 2024, vol. 12, no. 23, art. no. 3702, [30] p. (2023: 2.3 - IF, Q1 - JCR, 0.475 - SJR, Q2 - SJR). ISSN 2227-7390. Dostupné na: https://doi.org/10.3390/math12233702 (VEGA č. 2/0105/21 : Využitie SU(3) symetrie a analytičnosti na nové teoretické vyhodnotenie g-2 anomálie, predpovedanie správania sa hyperónových elektromagnetických formfaktorov a vyhodnotenie vybraných rozpadov hadrónov)

ADCA45 LIU, Min - ZHENG, Daming - ZHU, Tao - VÉGSÖ, Karol - ŠIFFALOVIČ, Peter - PAUPORTÉ, Thierry. 2D Halide Perovskite Phase Formation Dynamics and Their Regulation by Co-Additives for Efficient Solar Cells. In Advanced Materials Interfaces, 2024, vol. 11, no. 6, art. no. 2300773. (2023: 4.3 - IF, Q2 - JCR, 1.194 - SJR, Q1 - SJR). ISSN 2196-7350. Dostupné na: https://doi.org/10.1002/admi.202300773 (APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou. APVV-21-0297 : Pokročilé perovskitové solárne články s optimalizovanou pasiváciou a štruktúrou)

ADCA46 MAHAPATRA, Apurba - ANILKUMAR, Vishnu - KRUSZYNSKA, Joanna - MRKÝVKOVÁ, Naďa, Tesařová - ŠIFFALOVIČ, Peter - YADAV, Pankaj - PROCHOWICZ, Daniel. Ionic liquid-assisted growth of high-quality methylammonium lead bromide single crystals for photodetection applications. In Journal of Materials Chemistry C, 2024, vol. 12, no. 8, p. 2953-2960. (2023: 5.7 - IF, Q1 - JCR, 1.358 - SJR, Q1 - SJR). ISSN 2050-7526. Dostupné na: https://doi.org/10.1039/d3tc04511k (APVV-21-0297 : Pokročilé perovskitové solárne články s optimalizovanou pasiváciou a štruktúrou)

ADCA47 MANZOOR, Mumtaz - KUMAR, Kamal - MISHRA, Abhishek Kumar - AL-ASBAHI, Bandar Ali - SHARMA, Ramesh. Effect of strain on opto-electronic and thermoelectric properties of 2D SiH monolayer for solar cell and renewable energy applications: A first-principles study. In Solid State Communications, 2024, vol. 386, no. 11, art. no. 115527. (2023: 2.1 - IF, Q3 - JCR, 0.414 - SJR, Q2 - SJR). ISSN 0038-1098. Dostupné na: https://doi.org/10.1016/j.ssc.2024.115527 (APVV-21-0272 : Štúdium elektrónových vlastností 2D materiálov ultra presnými metódami kvantového Monte Carla. VEGA č. 2/0070/21 : Nízko-dimenzionálne materiály-manipulácia, funkcionalizácia a bioaplikácie: LOW-D-MATTER)

ADCA48 MANZOOR, Mumtaz - HUSSAIN, Mukhtiar - ASLAM, Muhammad - BUNTOV, Evgeny - SHARMA, Ramesh - ALSHOMRANY, Ali S. - SFINA, N. Tailoring the physical, optoelectronic and transport properties of novel lead-free Sodium perovskites Na2TeX6 (X = Cl, Br, I) using DFT computation for photovoltaic and thermal devices. In Chinese Journal of Physics, 2024, vol. 89, p. 1333-1346. (2023: 4.6 - IF, Q1 - JCR, 0.637 - SJR, Q2 - SJR). ISSN 0577-9073. Dostupné na: https://doi.org/10.1016/j.cjph.2024.02.027

ADCA49 MANZOOR, Mumtaz - BEHERA, Debidatta - SHARMA, Ramesh - MOAYAD, A.J.A. - AL-KAHTANI, Abdullah A. - KUMAR, Yedluri Anil. Comprehensive first principles to investigate optoelectronic and transport phenomenon of lead-free double perovskites Ba2AsBO6 (B= Nb, Ta) compounds. In Heliyon, 2024, vol. 10, no. 9, art. no. e30109. (2023: 3.4 - IF, Q1 - JCR, 0.617 - SJR, Q1 - SJR). ISSN 2405-

8440. Dostupné na: https://doi.org/10.1016/j.heliyon.2024.e30109 (VEGA č. 2/0070/21 : Nízko-dimenzionálne materiály- manipulácia, funkcionalizácia a bioaplikácie: LOW-D-MATTER. APVV-21-0272 : Štúdium elektrónových vlastností 2D materiálov ultra presnými metódami kvantového Monte Carla)

ADCA50 MANZOOR, Mumtaz - ABRAHAM, Jisha Annie - ALTAF, Mohammad - KUMAR, Yedluri Anil - SHARMA, Ramesh. Ab-initio perspective on physical properties of novel anti-perovskites A3SnS (A = Ca, Sr) for photovoltaic and renewable energy technologies. In Polyhedron, 2024, vol. 255, no. 11, art. no. 117132. (2023: 2.4 - IF, Q2 - JCR, 0.379 - SJR, Q3 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 0277-5387. Dostupné na: https://doi.org/10.1016/j.poly.2024.117132

ADCA51 MANZOOR, Mumtaz - DIXIT, Aparna - IQBAL, Muhammad Waqas - SADIQUE, Iqra - ALOTAIBI, Nouf H. - MOHAMMAD, Saikh - SHARMA, Ramesh - REHMAN, Ibad Ur - ISMAYILOVA, N.A. Explored the potential of Rb2SeX6 (X= Cl, Br) double perovskites for energy harvesting devices: A DFT study. In Materials Science and Engineering B - Solid-State Materials for Advanced Technology, 2024, vol.310, no. 11, art. no. 117710. (2023: 3.9 - IF, Q2 - JCR, 0.647 - SJR, Q2 - SJR). ISSN 0921-5107. Dostupné na: https://doi.org/10.1016/j.mseb.2024.117710 (APVV-21-0272 : Štúdium elektrónových vlastností 2D materiálov ultra presnými metódami kvantového Monte Carla. VEGA č. 2/0070/21 : Nízko-dimenzionálne materiály- manipulácia, funkcionalizácia a bioaplikácie: LOW-D-MATTER)

ADCA52 MANZOOR, Mumtaz** - IQBAL, Muhammad Waqas - SADIQUE, Iqra - WABAIDUR, Saikh Mohammad - AL-AMMAR, Essam A. - ŠTICH, Ivan - SHARMA, Ramesh - ANSARI, Mohd Zahid. A DFT study: Tailoring Opto-Electronic and Thermoelectric Performance of K2SeX6 (X = Cl, Br) Double Perovskites for Solar Cell Advancements. In Chinese Journal of Physics, 2024, vol. 89, p. 278-289. (2023: 4.6 - IF, Q1 - JCR, 0.637 - SJR, Q2 - SJR). ISSN 0577-9073. Dostupné na: https://doi.org/10.1016/j.cjph.2023.09.016 (APVV-21-0272 : Štúdium elektrónových vlastností 2D materiálov ultra presnými metódami kvantového Monte Carla. VEGA č. 2/0070/21 : Nízko-dimenzionálne materiály- manipulácia, funkcionalizácia a bioaplikácie: LOW-D-MATTER)

ADCA53 MEINDLHUMER, M. - GRAU, J. - STERNSCHULTE, H. - HALAHOVETS, Yuriy - ŠIFFALOVIČ, Peter - BURGHAMMER, M. - STEINMÜLLER-NETHL, D. - KECKES, J. Multimethod cross-sectional characterization approaching the limits of diamond monophase multilayers. In Materials Characterization, 2024, vol. 212, no. 11, art. no. 113973. (2023: 4.8 - IF, Q1 - JCR, 1.137 - SJR, Q1 - SJR). ISSN 1044-5803. Dostupné na: https://doi.org/10.1016/j.matchar.2024.113973

ADCA54 MIČKY, Simon** - ŠIMON, Erik - TODT, Juraj - VÉGSÖ, Karol - NÁDAŽDY, Vojtech - KRÍŽIK, Peter - MAJKOVÁ, Eva - KECKES, Jozef - LI, Ju - ŠIFFALOVIČ, Peter**. Operando Spatial and Temporal Tracking of Axial Stresses and Interfaces in Solid-state Batteries. In Small, 2024, vol. 20, art. no. 2307837. (2023: 13 - IF, Q1 - JCR, 3.348 - SJR, Q1 - SJR). ISSN 1613-6810. Dostupné na: https://doi.org/10.1002/smll.202307837 (APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou. APVV-19-0461 : Anódy pre Li-iónové batérie na báze uhlík-kremíkových kompozitov)

ADCA55 MOHAMMAD, Ijaz Ahamed - PIVOLUSKA, Matej - PLESCH, Martin**. Meta-optimization of resources on quantum computers. In Scientific Reports, 2024, vol. 14, no. 1, art. no. 10312. (2023: 3.8 - IF, Q1 - JCR, 0.9 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-024-59618-y

ADCA56 MOHANTY, Sanuja D. - PATRO, Ram N. - BISWAL, Pradyut K. - PRADHAN, Biswajit - SAZIM, Sheik**. Trade-off between Bagging and Boosting for quantum

separability-entanglement classification. In Quantum Information Processing, 2024, vol. 23, no. 7, art. no. 273. (2023: 2.2 - IF, Q1 - JCR, 0.541 - SJR, Q2 - SJR). ISSN 1570-0755. Dostupné na: https://doi.org/10.1007/s11128-024-04469-9 (APVV-22-0570 : Navrhovanie kvantových štruktúr vyššieho rádu. VEGA č. 2/0183/21 : Dizajn zložitých kvantových meraní (DESCOM))

ADCA57 MÓLLER, Natália Salomé - SAHDO, Bruna - YOKOMIZ, Nelson. Gravitational quantum switch on a superposition of spherical shells. In Quantum : the open journal for quantum science, 2024, vol. 8, art. no. 1248. (2023: 5.1 - IF, Q1 - JCR, 2.562 - SJR, Q1 - SJR). ISSN 2521-327X. Dostupné na: https://doi.org/10.22331/q-2024-02-12-1248 (APVV-22-0570 : Navrhovanie kvantových štruktúr vyššieho rádu. VEGA č. 2/0183/21 : Dizajn zložitých kvantových meraní (DESCOM))

ADCA58 NAUGHTON-DUSZOVÁ, Annamária** - MEDVEĎ, Dávid - ĎAKOVÁ, Lenka - KOVALČÍKOVÁ, Alexandra - ŠVEC, Peter Jr. - TATARKO, Peter - ÜNSAL, Hakan - HVIZDOŠ, Pavol - ŠAJGALÍK, Pavol - DUSZA, Ján. Dual-phase high-entropy carbide/boride ceramics with excellent tribological properties. In Journal of the European Ceramic Society, 2024, vol. 44, p. 5391-5400. (2023: 5.8 - IF, Q1 - JCR, 1.198 - SJR, Q1 - SJR). ISSN 0955-2219. Dostupné na: https://doi.org/10.1016/j.jeurceramsoc.2023.12.081 (Horizont 2020 Marie Curie Skłodowska COFUND č. 945478 : SASPRO 2 č. 1384/03/01 Meranie a modelovanie svetelného znečistenia. VEGA 2/0118/20 : Vysokoteplotné vlastnosti boridových MeB2 (Me=Ti, Zr, Hf) keramických kompozitných materiálov. VEGA 2/0174/21 : Nanomechanické skúšanie a deformovateľnosť vysokoentropických ultra vysokoteplotných keramických materiálov. VEGA č. 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov. APVV-17-0328 : Vývoj žiaruvzdorných pyrochlórnych fáz pre vysokoteplotné aplikácie neoxidovej keramiky. APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania. APVV-19-0497 : Nové vysokoentropické keramické materiály pre pokročilé aplikácie. APVV-20-0124 : Nové zliatiny s viacerými základnými prvkami – dizajn, charakterizácia a vlastnosti. APVV-21-0402 : Vývoj nových keramických materiálov komplexného zloženia pre extrémne aplikácie)

ADCA59 NAUGHTON-DUSZOVÁ, Annamária** - MEDVEĎ, Dávid - ĎAKOVÁ, Lenka - KOVALČÍKOVÁ, Alexandra - ŠVEC, Peter Jr. - TATARKO, Peter - ÜNSAL, Hakan - HVIZDOŠ, Pavol - ŠAJGALÍK, Pavol - DUSZA, Ján. Wear characteristics of dual-phase high-entropy ceramics: Influence of the testing method. In International Journal of Applied Ceramic Technology, 2024, vol. 21, p. 2678-2689. (2023: 1.8 - IF, Q2 - JCR, 0.387 - SJR, Q3 - SJR). ISSN 1546-542X. Dostupné na: https://doi.org/10.1111/ijac.14651 (Horizont 2020 Marie Curie Skłodowska COFUND č. 945478 : SASPRO 2 č. 1384/03/01 Meranie a modelovanie svetelného znečistenia. VEGA 2/0174/21 : Nanomechanické skúšanie a deformovateľnosť vysokoentropických ultra vysokoteplotných keramických materiálov. VEGA č. 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov. APVV-19-0497 : Nové vysokoentropické keramické materiály pre pokročilé aplikácie. APVV-20-0124 : Nové zliatiny s viacerými základnými prvkami – dizajn, charakterizácia a vlastnosti. APVV-21-0402 : Vývoj nových keramických materiálov komplexného zloženia pre extrémne aplikácie. M-ERA.NET 3/2021/295/DuplexCER H2020 : High Performance duplex ceramics for efficient machining of nickel supealloys)

ADCA60 NAZIR, Abrar - KHERA, Ejaz Ahmad - MANZOOR, Mumtaz - AL-ASBAHI, Bandar Ali - KUMAR, Yedluri Anil - SHARMA, Ramesh. A density functional theory study of the structural, mechanical, optoelectronics and thermoelectric properties of InGeX3 (X = F, Cl) perovskites. In Polyhedron, 2024, vol. 257, no. 11,

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ADCA61 NAZIR, Abrar - KHERA, Ejaz Ahmad - MANZOOR, Mumtaz - AL-ASBAHI, Bandar Ali - SHARMA, Ramesh. Tunable opto-electronic and thermoelectric response of alkali based half-Heusler semiconductors AMgN (A = Rb, Cs) for sustainable energy: A computational approach. In Materials Science and Engineering B - Solid-State Materials for Advanced Technology, 2024, vol. 303, art. no. 117338. (2023: 3.9 - IF, Q2 - JCR, 0.647 - SJR, Q2 - SJR). ISSN 0921-5107. Dostupné na: https://doi.org/10.1016/j.mseb.2024.117338

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ADCA63 NAZIR, Abrar - KHERA, Ejaz Ahmad - MANZOOR, Mumtaz - ALTHUBEITI, Khaled - OTAIBI, Sattam Al - SOLIYEVA, Mukhlisa - ELBOUGHDIRI, Noureddine - ULLAH, Hamid - SHARMA, Ramesh. DFT insights for thermoelectric characteristics of Sr3AsI3 for energy harvesting applications by TB-mBJ studies. In Inorganic Chemistry Communications, 2024, vol. 169, no. 11, art. no. 113112. (2023: 4.4 - IF, Q1 - JCR, 0.642 - SJR, Q1 - SJR). ISSN 1387-7003. Dostupné na: https://doi.org/10.1016/j.inoche.2024.113112

ADCA64 NESTERENKO, V. O. - MARDYBAN, M. A. - REINHARD, P.-G. - REPKO, Anton - KVASIL, J. Moments of inertia in light deformed nuclei: Pairing and mean-field impacts. In International Journal of Modern Physics E, 2024, vol. 33, no. 5, art. no. 2450021. (2023: 1 - IF, Q4 - JCR, 0.323 - SJR, Q3 - SJR). ISSN 0218-3013. Dostupné na: https://doi.org/10.1142/S0218301324500216 (APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier. VEGA č. 2/0175/24 : Tvarová koexistencia v atómových jadrách)

ADCA65 NESTERENKO, V. O. - VISHNEVSKIY, P. I. - REINHARD, P.-G. - REPKO, Anton - KVASIL, J. Microscopic analysis of dipole electric and magnetic strengths in 156 Gd. In European Physical Journal A, 2024, vol. 60, no. 2, art. no. 28. (2023: 2.6 - IF, Q2 - JCR, 0.931 - SJR, Q1 - SJR). ISSN 1434-6001. Dostupné na: https://doi.org/10.1140/epja/s10050-024-01251-4 (APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier. VEGA č. 2/0067/21 : Jadrová štruktúra v okolí uzavretých protónových vrstiev)

ADCA66 PAPADAKIS, P.** - PAKARINEN, J.** - BRISCOE, A.D. - COX, D.M. - JULIN, R. - AURANEN, K. - GRAHN, T. - GREENLEES, P.T. - HADYŃSKA-KLEK, K. - HERZÁŇ, Andrej - HERZBERG, R.-D. - JAKOBSSON, U. - JUUTINEN, S. - KONKI, J. - LEINO, M. - MISTRY, A. - O';DONNELL, D. - PEURA, P. - RAHKILA, P. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - SCHOLEY, C. - STOLTZE, S. - SORRI, J. - UUSITALO, J. - WRZOSEK-LIPSKA, K. Direct observation of E0 transitions in 188Pb through in-beam spectroscopy. In Physics Letters B : Nuclear, Elementary Particle and High-Energy Physics, 2024,

vol. 858, no. 13, art. no. 139048. (2023: 4.3 - IF, Q1 - JCR, 1.593 - SJR, Q1 - SJR). ISSN 0370-2693. Dostupné na: https://doi.org/10.1016/j.physletb.2024.139048 (APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier. APVV-22-0304 : Neutrónová defektoskopia perspektívnych tepelných výmenníkov. VEGA č. 2/0175/24 : Tvarová koexistencia v atómových jadrách)

ADCA67 PETŘKOVSKÝ, Lukáš - KUŘITKA, Ivo - ZEDNÍK, Jiří - VOHLÍDAL, Jiří - NÁDAŽDY, Vojtech - ŠEVČÍK, Jakub - ŠKODA, David - GHASEMI, Bita - URBÁNEK, Michal - HANULÍKOVÁ, Barbora - URBÁNEK, Pavel. Revival of Polyacetylenes in Electronics: Green Light Emitting Diodes. In Macromolecules, 2024, vol. 57, no. 16, p. 7808-7819. (2023: 5.1 - IF, Q1 - JCR, 1.401 - SJR, Q1 - SJR). ISSN 0024-9297. Dostupné na: https://doi.org/10.1021/acs.macromol.4c00862 (VEGA č. 2/0165/22 : Hľadanie optimálnych štruktúrnych a elektronických vlastností organických polovodičových vrstiev)

ADCA68 PHONG, L.T.H. - MANH, D.H.** - TRAN, Dang Thanh - BACH, Ta Ngoc - KY, V.H. - ŠKORVÁNEK, Ivan - KOVÁČ, Jozef - ŠVEC, Peter Jr. - PHAN, The Long - PHAN, Manh Huong. Contrasting shell thickness-dependent magnetic behaviors of CoFe2O4@Fe3O4 and Fe3O4@CoFe2O4 core/shell nanoparticles. In Journal of Alloys and Compounds, 2024, vol. 1005, art. no. 176138. (2023: 5.8 - IF, Q1 - JCR, 0.715 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: https://doi.org/10.1016/j.jallcom.2024.176138 (APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania. VEGA č. 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov)

ADCA69 PICA, Giovanni - MONTECUCCO, Riccardo - ZANETTA, Andrea - ORANSKAIA, Aleksandra - FAINI, Fabiola - PANCINI, Lorenzo - MRKÝVKOVÁ, Naďa, Tesařová - ŠIFFALOVIČ, Peter - DALLY, Pia - PIROTA, Valentina - LEDINSKY, Martin - DE BASTIANI, Michele - DE WOLF, Stefaan - DORIA, Filippo - SCHWINGENSCHLÖGL, Udo - GRANCINI, Giulia. Unraveling Bulk versus Surface Passivation Effects in Highly Efficient p-i-n Perovskite Solar Cells Using Thiophene-Based Cations. In Solar RRL, 2024, vol. 8, no. 9, art. no. 2300681. (2023: 6 - IF, Q1 - JCR, 1.783 - SJR, Q1 - SJR). ISSN 2367-198X. Dostupné na: https://doi.org/10.1002/solr.202300681 (APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou. APVV-21-0297 : Pokročilé perovskitové solárne články s optimalizovanou pasiváciou a štruktúrou. SK-AT-20-0006 : Molekulárne nanoštruktúry na dvojdimenzionálnych subsrátov)

ADCA70 PINČÁK, Richard** - PIGAZZINI, Alexander - JAFARI, Saeid - KORKMAZ, Ozge - OZEL, Cenap - BARTOŠ, Erik. A possible interpretation of financial markets affected by dark volatility. In Communications in analysis and geometry, 2023, vol. 15, no. 2, p. 91-110. (2022: 0.7 - IF, Q3 - JCR, 0.618 - SJR, Q2 - SJR). ISSN 1019-8385. Dostupné na: https://doi.org/10.3934/cam.2023006

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ADCA72 PLEVACHUK, Yuriy - POVERZHUK, V. - ŠVEC, Peter - ŠVEC, Peter Jr. - GEJDOŠ JANOTOVÁ, Irena - JANIČKOVIČ, Dušan - RUD, A. Electrical

Resistivity of Lead-Free Solders Reinforced by Carbon Nanospheres. In International Journal of Thermophysics, 2024, vol. 45, no. 3, art. no. 31. (2023: 2.5 - IF, Q2 - JCR, 0.438 - SJR, Q2 - SJR). ISSN 0195-928X. Dostupné na: https://doi.org/10.1007/s10765-023-03326-8 (VEGA č. 1/0389/22 : Analýza tvorby mikroštruktúry a jej vplyv na vybrané vlastnosti bezolovnatých spájok. VEGA č. 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov)

ADCA73 PLEVACHUK, Yuriy - POVERZHUK, Viktor - ŠVEC, Peter - ŠVEC, Peter Jr. - OROVČÍK, Ľubomír - BAJANA, Otto. Effect of Au-deposited ceramic nanoparticles on SAC305/Cu solder joints. In Journal of Materials Science: Materials in Electronics, 2024, vol. 35, no. 34, art. no. 2182. (2023: 2.8 - IF, Q2 - JCR, 0.512 - SJR, Q2 - SJR). ISSN 0957-4522. Dostupné na: https://doi.org/10.1007/s10854-024-13943-0

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ADCA75 RAGINI, Nidhin Sudarsanan - SAZIM, Sheik. Higher-order incompatibility improves distinguishability of causal quantum networks. In New Journal of Physics, 2024, vol. 26, no. 12, art. no. 123003. (2023: 2.8 - IF, Q2 - JCR, 1.09 - SJR, Q1 - SJR). ISSN 1367-2630. Dostupné na: https://doi.org/10.1088/1367-2630/ad93f6 (VEGA č. 2/0183/21 : Dizajn zložitých kvantových meraní (DESCOM). APVV-22-0570 : Navrhovanie kvantových štruktúr vyššieho rádu. APVV-22-0570 : Navrhovanie kvantových štruktúr vyššieho rádu)

ADCA76 REINHARDT, S. - ASCHERL, T. - COSTA, A. - BERGER, J. - GRONIN, S. - GARDNER, G.C. - LINDEMANN, T. - MANFRA, M.J. - FABIAN, J. - KOCHAN, Denis - STRUNK, C. - PARADISO, N. Link between supercurrent diode and anomalous Josephson effect revealed by gate-controlled interferometry. In Nature Communications, 2024, vol. 15, no. 1, art. no. 4413. (2023: 14.7 - IF, Q1 - JCR, 4.887 - SJR, Q1 - SJR). ISSN 2041-1723. Dostupné na: https://doi.org/10.1038/s41467-024-48741-z

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ADCA79 ROIK, Nadiia V. - BELYAKOVA, Lyudmila O. - ISCHENKO, Mykola V. - ŠVEC, Peter Jr. - ROIK, Oleksandr S. Synthesis, hydrolytic stability, and phase transformation of (Co, Co/Zn, Zn)-ZIFs with cuboid morphology of particles. In Microporous and Mesoporous Materials, 2024, vol. 376, no. 11, art. no. 113186. (2023: 4.8 - IF, Q1 - JCR, 0.941 - SJR, Q1 - SJR). ISSN 1387-1811. Dostupné na: https://doi.org/10.1016/j.micromeso.2024.113186

ADCA80 SAHOO, Prangya Parimita** - GÜNEREN, Alper - HUDEC, Boris - MIKOLÁŠEK, M. - NADA, Ahmed A. - PRECNEROVÁ, Magdaléna - MIČUŠÍK, Matej - LENČÉŠ, Zoltán - NÁDAŽDY, Peter - FRÖHLICH, Karol. Stabilization of the

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ADCA81 SALEHTASH, Farnoush - HVIZDOŠOVÁ, Adriana, Annušová - STEPURA, Anastasiia - SOYKA, Yaryna - HALAHOVETS, Yuriy - HOFBAUEROVÁ, Monika, Benkovičová - MIČUŠÍK, Matej - KOTLÁR, Mário - NÁDAŽDY, Peter - ALBRYCHT, Pawel - ŠIFFALOVIČ, Peter - JERGEL, Matej - OMASTOVÁ, Mária - MAJKOVÁ, Eva**. SERS performance of Ti3C2Tx MXene-based substrates correlates with surface morphology. In Materials, 2024, vol. 17, no. 6, 1385, [15] p. (2023: 3.1 - IF, Q1 - JCR, 0.565 - SJR, Q2 - SJR). ISSN 1996-1944. Dostupné na: https://doi.org/10.3390/ma17061385 (APVV-20-0485 : Využitie nanomedicíny v boji proti rakovine pankreasu prostredníctvom zacielenia nádorovo-asociovanej karbonickej anhydrázy IX. APVV-19-0465 : Hybridné nízkorozmerné vrstevnaté materiály s novými funkciami. VEGA č. 2/0046/21 : Vplyv zabudovania MXénov do perovskitových solárnych článkov)

ADCA82 SCALA, Giovanni - GHOREISHI, Seyed Arash - PAWŁOWSKI, Marcin. Advantages of quantum communication revealed by the reexamination of hyperbit theory limitations. In Physical Review A, 2024, vol. 109, no. 2, art. no. 022230. (2023: 2.6 - IF, Q2 - JCR, 1.081 - SJR, Q1 - SJR). ISSN 1050-2947. Dostupné na: https://doi.org/10.1103/PhysRevA.109.022230 (VEGA č. 2/0183/21 : Dizajn zložitých kvantových meraní (DESCOM))

ADCA83 SHARMA, Gautam - GHOSH, Sibasish - SAZIM, Sheik**. Bloch sphere analog of qudits using Heisenberg-Weyl Operators. In Physica Scripta, 2024, vol. 99, no. 4, art. no. 045105. (2023: 2.6 - IF, Q2 - JCR, 0.415 - SJR, Q2 - SJR). ISSN 0031-8949. Dostupné na: https://doi.org/10.1088/1402-4896/ad2ccf (APVV-22-0570 : Navrhovanie kvantových štruktúr vyššieho rádu. VEGA č. 2/0183/21 : Dizajn zložitých kvantových meraní (DESCOM))

ADCA84 SHARMA, Ramesh - MANZOOR, Mumtaz** - ANSAR, Sabah - ASLAM, Muhammad - KASHCHENKO, Nadezhda. Screening on optoelectronic and thermoelectric response of novel Zintl phase CaMg2Pn2 (Pn = P, As) for renewable energy applications: A first principles method. In Solid State Communications, 2024, vol. 391, no. 11, art. no. 115633. (2023: 2.1 - IF, Q3 - JCR, 0.414 - SJR, Q2 - SJR). ISSN 0038-1098. Dostupné na: https://doi.org/10.1016/j.ssc.2024.115633

ADCA85 SHARMA, Ramesh - MANZOOR, Mumtaz - ANSAR, Sabah - KUMAR, Yedluri Anil - SRIVASTAVA, Vipul. A computational approach to study optoelectronic thermoelectric behavior of ternary zinc Aluminates ZnAl2X4 (X =S, Se, Te) for low-cost energy technologies. In Solid State Communications, 2024, vol. 394, no. 11, art. no. 115674. (2023: 2.1 - IF, Q3 - JCR, 0.414 - SJR, Q2 - SJR). ISSN 0038-1098. Dostupné na: https://doi.org/10.1016/j.ssc.2024.115674 (APVV-21-0272 : Štúdium elektrónových vlastností 2D materiálov ultra presnými metódami kvantového Monte Carla. VEGA č. 2/0070/21 : Nízko-dimenzionálne materiály- manipulácia, funkcionalizácia a bioaplikácie: LOW-D-MATTER)

ADCA86 SCHARF, Benedikt - KOCHAN, Denis** - MATOS-ABIAGUE, Alex. Superconducting Diode Effect in Quantum Spin Hall Insulator-based Josephson Junctions. In Physical Review B, 2024, vol. 110, no. 13, art. no. 134511. (2023: 3.2 - IF, Q2 - JCR, 1.345 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: https://doi.org/10.1103/PhysRevB.110.134511 (VEGA č. 2/0156/22 : Kvantové simulácie a modelovanie interakčých sietí (QuaSiModo))

ADCA87 SINGH, Sushil Kumar - ABRAHAM, Jisha Annie - SRIVASTAVA, Anshuman -

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ADCA88 ŠAGÁTOVÁ, Alexandra - KOTRLE, Kamil - BRACHŇAKOVÁ, Barbora - HAVLÍČEK, Lubomír - NEMEC, Ivan - HERCHEL, Radovan - HOFBAUEROVÁ, Monika, Benkovičová - HALAHOVETS, Yuriy - ŠIFFALOVIČ, Peter - ČIŽMÁR, Erik - FELLNER, Ondřej F. - ŠALITROŠ, Ivan. Above room temperature spin crossover in mononuclear iron(II) complexes featuring pyridyl-benzimidazole bidentate ligands adorned with aliphatic chains. In Dalton Transactions, 2024, vol. 53, no. 33, p. 14037-14045. (2023: 3.5 - IF, Q2 - JCR, 0.697 - SJR, Q1 - SJR). ISSN 1477-9226. Dostupné na: https://doi.org/10.1039/d4dt01338g (APVV-19-0087 : Bioaktívne komplexy prechodných kovov s magnetickou bistabilitou. APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou)

ADCA89 ŠAMAJ, Ladislav**. Effective interaction between guest charges immersed in 2D jellium. In Journal of Physics A: Mathematical and Theoretical, 2024, vol. 57, no. 10, art. no. 105001, [25 pp]. (2023: 2 - IF, Q2 - JCR, 0.769 - SJR, Q1 - SJR). ISSN 1751-8113. Dostupné na: https://doi.org/10.1088/1751-8121/ad24c9 (VEGA č. 2/0092/21 : Štatistická mechanika klasických coulombovských systémov. VEGA č. 2/0089/24 : Efektívne interakcie v nízkoteplotnej termodynamike coulombovských systémov. APVV-20-0150 : Perspektívne elektrónové spinové systémy pre budúce kvantové technológie)

ADCA90 ŠAMAJ, Ladislav - TRIZAC, Emmanuel - TRULSSON, Martin. Strong-coupling effective-field theory for asymmetrically charged plates with counterions only. In Physical Review E, 2024, vol. 110, no. 1, art. no. 014609. (2023: 2.2 - IF, Q1 - JCR, 0.805 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: https://doi.org/10.1103/PhysRevE.110.014609 (APVV-20-0150 : Perspektívne elektrónové spinové systémy pre budúce kvantové technológie. VEGA č. 2/0089/24 : Efektívne interakcie v nízkoteplotnej termodynamike coulombovských systémov)

ADCA91 TIGHEZZA, AmmarM. - SAJID, Muhammad - NAWAZ, Muhammad - MANZOOR, Mumtaz - JAMIL, Muhammad - NAZAR, Mubashir - MASOOD, Muhammad Kashif - REHMAN, Javed. Study of optoelectronic and thermoelectric properties of K2XSbCl6 (X= In, Au) double perovskites for energy conversion devices: A DFT insight. In Physica B: Condensed Matter, 2024, vol. 691, art. no. 416371. (2023: 2.8 - IF, Q2 - JCR, 0.492 - SJR, Q2 - SJR). ISSN 0921-4526. Dostupné na: https://doi.org/10.1016/j.physb.2024.416371

ADCA92 TIMCHENKO PRIHODKO, Iryna** - DEIEV, O.S. - OLEJNIK, S.M. - POTIN, S.M. - KUSHNIR, V.A. - MYTROCHENKO, V.V. - PEREZHOGIN, S.A. - HERZÁŇ, Andrej. Photoproduction of the 55-57Co Co nuclei on nat Ni at the bremsstrahlung end-point energy of 35-94 MeV. In Atomic Data and Nuclear Data Tables, 2024, vol. 160, no. 10, art. no. 101674. (2023: 2.7 - IF, Q2 - JCR, 0.488 - SJR, Q2 - SJR). ISSN 0092-640X. Dostupné na: https://doi.org/10.1016/j.adt.2024.101674 (APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier. VEGA č. 2/0175/24 : Tvarová koexistencia v atómových jadrách)

ADCA93 TIWARI, Rupali - BOHÁČ, Vlastimil - HRČKA, Richard - MA, Anton Yi - GUSTAVSSON, Mattias K. - TODARO, Luigi - ANTOV, Peter - KRISTAK, Lubos**. Advancing sustainable practices: Transient plane source methodology for analyzing thermophysical properties and enhancement wood as a thermal insulator.

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ADCA95 TURUTANOV, O. G. - SIVAKOV, A. G. - LEHA, A. A. - POKHILA, A. S. - KOLINKO, A. E. - GRAJCAR, Miroslav. Some aspects of resistive-to-normal state transition by direct and microwave currents in superconducting thin films with phase slip lines. In Low Temperature Physics, 2024, vol. 50, no. 4, p. 289-298. (2023: 0.6 - IF, Q4 - JCR, 0.225 - SJR, Q3 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 1063-777X. Dostupné na: https://doi.org/10.1063/10.0025294

ADCA96 TURUTANOV, O. G. - KOROLEV, A. M. - SHNYRKOV, V. I. - SHAPOVALOV, A. P. - BARÁNEK, M. - KERN, S. - LYAKHNO, V. Yu. - NEILINGER, Pavol - GRAJCAR, Miroslav. Design of deeply cooled ultra-low dissipation amplifier and measuring cell for quantum measurements with a microwave single-photon counter. In Low Temperature Physics, 2024, vol. 50, no. 1, p. 82-88. (2023: 0.6 - IF, Q4 - JCR, 0.225 - SJR, Q3 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 1063-777X. Dostupné na: https://doi.org/10.1063/10.0023896

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ADCA98 VESELSKÝ, M. - RUBOVIČ, P. - PETOUSIS, V. - DA LUZ, H. Natal - BURIAN, P. - MÁNEK, P. - MEDUNA, L. - SMOLYANSKIY, P. - RAABE, R. - CAMAIANI, A. - KLIMO, J. - POLESHCHUK, O. - YOUSSEF, A. - CEULEMANS, A. - LATIF, M. - JANDEL, M. - BÍROVÁ, Monika - HERZÁŇ, Andrej - ŠPAČEK, Andrej - VENHART, Martin - PELLEGRITI, M. G. - ANDREYEV, A. N. - PAGE, C. - SOULIOTIS, G. A. - LICA, R. Determination of fission barrier height of 210Fr and 210Ra via neutron measurement. In Physical Review C, 2024, vol. 109, no.1, art. no. 014618. (2023: 3.2 - IF, Q2 - JCR, 1.223 - SJR, Q1 - SJR). ISSN 2469-9985. Dostupné na: https://doi.org/10.1103/PhysRevC.109.014618 (APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier. VEGA č. 2/0067/21 : Jadrová štruktúra v okolí uzavretých protónových vrstiev)

ADCA99 VON NEUMANN-COSEL, P. - NESTERENKO, V. O. - BRANDHERM, I. - VISHNEVSKIY, P. I. - REINHARD, P. -G. - KVASIL, J. - MATSUBARA, H. - REPKO, Anton - RICHTER, A. - SCHECK, M. - TAMII, A. Candidate toroidal electric dipole mode in the spherical nucleus 58Ni. In Physical Review Letters, 2024, vol. 133, no. 23, art. no. 232502. (2023: 8.1 - IF, Q1 - JCR, 3.04 - SJR, Q1 - SJR). ISSN 0031-9007. Dostupné na: https://doi.org/10.1103/PhysRevLett.133.232502 (APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier. VEGA č. 2/0175/24 : Tvarová koexistencia v atómových jadrách)

ADCA100 WAGNER, Jakub - CHAVAN, Rohit D. - KRUSZYŃSKA, Joanna - ANS, Muhammad - MAHAPATRA, Apurba - MRKÝVKOVÁ, Naďa, Tesařová -

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ADCA101 WANG, Tao - ZHENG, Daming - VÉGSÖ, Karol - BAILLARD, Guillaume - NÁDAŽDY, Peter - MRKÝVKOVÁ, Naďa, Tesařová - ŠIFFALOVIČ, Peter - CHEN, Yimu - COOLEN, Laurent - PAUPORTÉ, Thierry - FENG, Fu. A dual strategy to enhance the photoelectric performance of Perovskite-Based photodetectors for potential applications in optical communications. In Chemical Engineering Journal, 2024, vol. 488, no. 15, art. no. 151068. (2023: 13.3 - IF, Q1 - JCR, 2.852 - SJR, Q1 - SJR). ISSN 1385-8947. Dostupné na: https://doi.org/10.1016/j.cej.2024.151068

ADCA102 WANG, Yi-Ming** - KÁLOSI, Anna - HALAHOVETS, Yuriy - BENEŠ, T. - DE LOS SANTOS PEREIRA, A. - POP-GEORGIEVSKI, O. Solvent effects on surface-grafted and solution-born poly[N-(2-hydroxypropyl)methacrylamide] during surface-initiated RAFT polymerization. In Polymer Chemistry, 2024, vol. 15, p. 2070-2080. (2023: 4.1 - IF, Q2 - JCR, 0.969 - SJR, Q1 - SJR). ISSN 1759-9954. Dostupné na: https://doi.org/10.1039/d4py00177j

ADCA103 WIDOM, Micheal - MIHALKOVIČ, Marek. Quasicrystal Structure Prediction: A Review. In Israel Journal of Chemistry, 2024, vol. 64, no. 10-11, art. no. e202300122. (2023: 2.3 - IF, Q3 - JCR, 0.987 - SJR, Q1 - SJR). ISSN 0021-2148. Dostupné na: https://doi.org/10.1002/ijch.202300122 (APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania. APVV-20-0124 : Nové zliatiny s viacerými základnými prvkami – dizajn, charakterizácia a vlastnosti. VEGA č. 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov)

ADCA104 YAKOVENKO, Olexiy - SOKOLSKII, Volodymyr - ŠVEC, Peter Jr. - GEJDOŠ JANOTOVÁ, Irena - ŠVEC, Peter - KULIK, Tadeusz - CIESLAK, Grzegorz - ROIK, Oleksandr. Fabrication of porous high-entropy Mn-Fe-Co-Ni-Cu-Zn alloys by vapor phase dealloying. In Journal of Alloys and Compounds, 2024, vol. 1002, no 17, art. no. 175312. (2023: 5.8 - IF, Q1 - JCR, 0.715 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: https://doi.org/10.1016/j.jallcom.2024.175312 (APVV-20-0124 : Nové zliatiny s viacerými základnými prvkami – dizajn, charakterizácia a vlastnosti. VEGA č. 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov)

ADCA105 ZHUMAGULOV, Yaroslav - KOCHAN, Denis** - FABIAN, Jaroslav. Swapping exchange and spin-orbit induced correlated phases in proximitized Bernal bilayer graphene. In Physical Review B, 2024, vol. 110, no. 4, art. no. 045427. (2023: 3.2 - IF, Q2 - JCR, 1.345 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: https://doi.org/10.1103/PhysRevB.110.045427

ADCA106 ZHUMAGULOV, Yaroslav - KOCHAN, Denis** - FABIAN, Jaroslav. Emergent correlated phases in rhombohedral trilayer graphene induced by proximity spin-orbit and exchange coupling. In Physical Review Letters, 2024, vol. 132, no. 18, art. no. 186401. (2023: 8.1 - IF, Q1 - JCR, 3.04 - SJR, Q1 - SJR). ISSN 0031-9007. Dostupné na: https://doi.org/10.1103/PhysRevLett.132.186401 (VEGA č. 2/0183/21 : Dizajn zložitých kvantových meraní (DESCOM))

ADEA Vedecké práce v ostatných zahraničných časopisoch – impaktovaných

ADEA01 BARÁNEK, Martin - NEILINGER, Pavol - KERN, Samuel - GRAJCAR, Miroslav. Numerical modeling of SNSPD absorption utilizing optical conductivity with quantum corrections. In Optical and Quantum Electronics, 2024, vol. 56, art. no. 1730. (2023: 3.3 - IF, Q2 - JCR, 0.467 - SJR, Q2 - SJR). ISSN 0306-8919. Dostupné na: https://doi.org/10.1007/s11082-024-07614-x

ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

ADEB01 DONCHEV, Ivan - FINK, Dietmar - VINKOVSKAYA, Alina - KAVETSKYY, Taras - KUSHNIYAZOVA, Mariya - DYACHOK, Dmytro - BONDARUK, Yurii - PAN'KIV, Lyudmyla - KUKHAZH, Yuliia - MUSHYNSKA, Oksana - ZUBRYTSKA, Oksana - MATSKIV, Oles - SOLOVIEV, Vladimir - KIV, Arnold. Simulation of track structures as the basis of biosensors. In Acta Carpathica, 2023, vol. 1, no. 39, p. 66-72. ISSN 3041-2250. Dostupné na: https://doi.org/10.32782/2450-8640.2023.1.8

ADEB02 FINK, Dietmar - KIV, Arnold - KAVETSKYY, Taras - SOLOVIEV, Volodymyr - BONDARUK, Yurii - HOIVANOVYCH, Nataliia - KUKHAZH, Yuliia - ZUBRYTSKA, Oksana - MATSKIV, Oles - HIJAZE, Alaa - ŠAUŠA, Ondrej. Mechanism for detecting contaminants in the track sensors. In Acta Carpathica, 2024, vol. 2, no. 42, p. 21-28. ISSN 3041-2250. Dostupné na: https://doi.org/10.32782/2450-8640.2024.2.3 (APVV-21-0335 : Zmeny mikroštruktúry a fyzikálnych vlastností zosieťovaných polymérov v objeme a v uväznených podmienkach makro- a mezopórov. VEGA č. 2/0134/21 : Fyzikálne vlastnosti uväznenej vody v prostredí lipidových dvojvrstiev a vplyv kryoprotektív)

ADEB03 KAVETSKYY, Taras - KUKHAZH, Yuliia - HOIVANOVYCH, Nataliia - PANKIV, Liudmyla - NYKOLAISHYN, Oksana - MUSHYNSKA, Oksana - ZUBRYTSKA, Oksana - DEMKIV, Olha - DYACHOK, Dmytro - VINKOVSKAYA, Alina - HIJAZE, Alaa - KUSHNIYAZOVA, Mariya - ŠAUŠA, Ondrej - KIV, Arnold. On the correlation of network properties of polymer matrixes with parameters of electrochemical biosensors. In Acta Carpathica, 2024, vol. 1, no. 41, p. 105-116. ISSN 3041-2250. Dostupné na: https://doi.org/10.32782/2450-8640.2024.1.11 (VEGA č. 2/0134/21 : Fyzikálne vlastnosti uväznenej vody v prostredí lipidových dvojvrstiev a vplyv kryoprotektív. APVV-21-0335 : Zmeny mikroštruktúry a fyzikálnych vlastností zosieťovaných polymérov v objeme a v uväznených podmienkach makro- a mezopórov)

ADEB04 KOŠOVSKÝ, Dávid - MIGLIERINI, Marcel - KMJEČ, Tomáš - BUJDOŠ, Marek - GEJDOŠ JANOTOVÁ, Irena. Microstructure of high-entropy alloys. In AIP Conference Proceedings, 2024, vol. 3054, art. no. 020005. (2023: 0.152 - SJR). ISSN 0094-243X. Dostupné na: https://doi.org/10.1063/5.0187463

ADEB05 VINKOVSKAYA, Alina - BONDARUK, Yurii - FINK, Dietmar - KAVETSKYY, Taras - DYACHOK, Dmytro - DONCHEV, Ivan - PANKIV, Lyudmyla - KUKHAZH, Yuliia - ZUBRYTSKA, Oksana - MATSKIV, Oles - KRAVTSIV, Mariana - LESHKO, Roman - HOIVANOVYCH, Nataliia - KIV, Arnold. Features of chemical etching of track structures. In Acta Carpathica, 2023, vol. 2, no. 40, p. 107-113. ISSN 3041-2250. Dostupné na: https://doi.org/10.32782/2450-8640.2023.2.12

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

ADMA01 BONDARUK, Y.V. - KAVETSKYY, Taras** - VINKOVSKAYA, A.O. - KUSHNIYAZOVA, M. - DYACHOK, D.O. - PANKIV, L.I. - KLEPACH, H.M. - MUSHYNSKA, O.R. - ZUBRYTSKA, O.V. - MATSKIV, O.I. - PAVLOVSKYY, Y.V. - VOLOSHANSKA, S.Y. - MONASTYRSKA, S.S. - BODNAR, L.V. - KIV, A.E. Improvement of new electronic materials using computer modeling. In Semiconductor Physics, Quantum Electronics and Optoelectronics, 2023, vol. 26, no. 4, p. 470-474. (2022: 0.9 - IF, 0.265 - SJR, Q3 - SJR). (2023 - WOS, SCOPUS). ISSN 1605-6582. Dostupné na: https://doi.org/10.15407/spqeo26.04.470

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ADMA04 HELD, Vladimír** - MRKÝVKOVÁ, Naďa, Tesařová - HALAHOVETS, Yuriy - NÁDAŽDY, Peter - VÉGSÖ, Karol - VLK, Aleš - LEDINSKÝ, Martin - JERGEL, Matej - BERNSTORFF, Sigrid - KECKES, Jozef - SCHREIBER, Frank - ŠIFFALOVIČ, Peter. Evolution of Defects, Morphology, and Strain during FAMAPbI3 Perovskite Vacuum Deposition: Insights from In Situ Photoluminescence and X ray Scattering. In ACS Applied Materials & Interfaces, 2024, vol. 16, pp. 35723-35731. (2023: 8.3 - IF, Q1 - JCR, 2.058 - SJR, Q1 - SJR). ISSN 1944-8244. Dostupné na: https://doi.org/10.1021/acsami.4c04095 (APVV-21-0297 : Pokročilé perovskitové solárne články s optimalizovanou pasiváciou a štruktúrou. APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou)

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ADMA07 KAVETSKYY, Taras** - DEMKIV, O.M. - PRYIMA, A.M. - HOIVANOVYCH, N.K. - BRYNDZIA, I.V. - BRIUKHOVETSKA, I.V. - DROZD, I.F. - VOLOSHYN,

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

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ADMB02 BOHÁČ, Vlastimil** - TIWARI, Rupali - KRISTAK, Lubos - RÉH, Roman - HUDEC, Ján - ŠTOFANIK, Vladimír, 1975- - GIUDICE, Valentina Lo - TODARO, Luigi. The influence of the flatness of the particleboard composite samples on the accuracy of the measurement of thermal properties by pulse transient method. In AIP Conference Proceedings, 2024, vol. 3126, no. 1, art. no. 020004. (2023: 0.152 - SJR). ISSN 0094-243X. Dostupné na: https://doi.org/10.1063/5.0199232 (VEGA č. 1/0714/21 : Výskum vybraných vlastností trvalo udržateľných izolačných materiálov s potenciálom využitia v drevostavbách)

ADMB03 BUTVINOVÁ, Beata** - GEJDOŠ JANOTOVÁ, Irena - ŠVEC, Peter - MAŤKO, Igor - JANIČKOVIČ, Dušan - DIAS, Leonardo Viana. Magnetic Characteristics of (Fe75Co10B15)Cu0 and Cu1.5 Amorphous and Nanocrystalline Alloys. In AIP Conference Proceedings, 2024, vol. 3251, no. 1, art. no. 040010. (2023: 0.152 - SJR). ISSN 0094-243X. Dostupné na: https://doi.org/10.1063/5.0234168 (VEGA č. 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov. APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania)

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ADMB10 PLEVACHUK, Yuriy - ROMAKA, Lyubov - GEJDOŠ JANOTOVÁ, Irena - ŠVEC, Peter - JANIČKOVIČ, Dušan - NOVAKOVIC, Rada - POVERZHUK, Viktor. Thermophysical Properties of Cu-Based Subsystems of High-Entropy Alloys. In Defect and Diffusion Forum, 2024, vol. 431, p. 21-33. (2023: 0.161 - SJR, Q4 - SJR). ISSN 1662-9507. Dostupné na: https://doi.org/10.4028/p-gL7mcS (VEGA č. 1/0389/22 : Analýza tvorby mikroštruktúry a jej vplyv na vybrané vlastnosti bezolovnatých spájok. VEGA č. 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov)

ADMB11 SHTABLAVYI, Ihor - MUDRY, Stepan - KULYK, Yuriy - PLEVACHUK, Yuriy - ŠVEC, Peter Jr. - ŠVEC, Peter. Effect of laser processing modes on selective laser melting of Fe86B14 amorphous alloys. In AIP Conference Proceedings, 2024, vol. 3251, no. 1, art. no. 030006. (2023: 0.152 - SJR). ISSN 0094-243X. Dostupné na: https://doi.org/10.1063/5.0234107 (VEGA č. 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov. APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania)

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ADMB13 YAKOVENKO, Olexiy - ŠVEC, Peter Jr. - JANIČKOVIČ, Dušan - ŠVEC, Peter -

KULIK, Tadeusz - CIESLAK, Grzegorz - AKULCHEVA, Maryana - KURYS, Yaroslav - ROIK, Oleksandr. Nanoporous Co-Ni-based materials for electrocatalysis applications. In AIP Conference Proceedings, 2024, vol. 3251, no. 1, art. no. 030013. (2023: 0.152 - SJR). ISSN 0094-243X. Dostupné na: https://doi.org/10.1063/5.0234396 (APVV-20-0124 : Nové zliatiny s viacerými základnými prvkami – dizajn, charakterizácia a vlastnosti. VEGA č. 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov)

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AFD04 LUBY, Štefan** - HERIBAN, Richard. Nanoethics - Conscience of Nanotechnology. In 12th International Conference on Advances in Electronic and Photonic Technologies - ADEPT 2024 : Proceedings of ADEPT. Editors: M. Feiler, M. Ziman, S. Kováčová, J. Kováč, jr. - Zilina : University of Zilina in EDIS-Publishing Centre of UZ, 2024, p. 165-168. ISBN 978-80-554-2109-4. Dostupné na internete: https://adept.fyzika.uniza.sk/index.php (VEGA č. 2/0013/24 : Akceptácia a používanie inovácií 4.0 vo vzťahu ku kognitívnym prínosom a záťaži v kontexte cieľov udržateľného rozvoja. VEGA č. 2/0142/23 : Analýza mechanizmu detekcie chemoodporových nanoštruktúrovaných senzorov na báze oxidov kovov. International Conference on Advances in Electronic and Photonic Technologies (ADEPT 2024))

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2024, p. 89. ISBN 978-80-574-0340-1. Dostupné na internete: https://zenodo.org/records/12513685

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ADMB11 HURAN, Jozef - VALOVIČ, Albín - KOBZEV, A.P. - BALALYKIN, Nikolay I. - KUČERA, Michal - HAŠČÍK, Štefan - MALINOVSKÝ, Ľudovít - KOVÁČOVÁ, Eva. Stuctural and physical characteristics of PECVD nanocrystalline silicon carbide thin films. In Physics Procedia, 2012, vol. 32, p. 303-307. (2011: 0.227 - SJR). (2012 - SCOPUS). ISSN 1875-3892. Dostupné na: https://doi.org/10.1016/j.phpro.2012.03.560

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ADMB12 JAMES, Jemy - JOSEPH, Blessy - SHAJI, Ashin - NANCY, Parvathy - KALARIKKAL, Nandakumar - THOMAS, Sabu - GROHENS, Yves - VIGNAUD, Guillaume. Microscopic Analysis of Plasma-Activated Polymeric Materials. In Non-Thermal Plasma Technology for Polymeric Materials: Applications in Composites, Nanostructured Materials and Biomedical Fields. - Amsterdam, Netherlands : Elsevier Inc., 2019, 2019, p. 287-317. ISBN 978-0-12-813152-7. Dostupné na: https://doi.org/10.1016/B978-0-12-813152-7.00011-1

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2. [1.1] PILLAI, Renjith Rajan - ADHIKARI, Kiran Raj - GARDNER, Steven - SUNILKUMAR, Surya - SANAS, Shruti - MOHAMMAD, Haider - THOMAS, Vinoy. Inkjet-printed plasma-functionalized polymer-based capacitive sensor for PAHs. In MATERIALS TODAY COMMUNICATIONS, 2023, vol. 35, no., pp. Dostupné na: https://doi.org/10.1016/j.mtcomm.2023.105659, Registrované v: WOS

ADMB13 KOVÁČOVÁ, Mária* - BODIK, Michal* - MIČUŠÍK, Matej - HUMPOLÍČEK, Petr - ŠIFFALOVIČ, Peter - ŠPITÁLSKY, Zdenko**. Increasing the effectivity of the antimicrobial surface of carbon quantum dots-based nanocomposite by atmospheric pressure plasma. In Clinical Plasma Medicine, 2020, vol. 19-20, art. no. 100111, [7] p. (2019: 1.049 - SJR, Q1 - SJR). ISSN 2452-0896. Dostupné na: https://doi.org/10.1016/j.cpme.2020.100111

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PREKODRAVAC, Jovana - ZMEJKOSKI, Danica - KEPIC, Dejan - BONASERA, Aurelio - MARKOVIC, Biljana Todorovic. Lights and Dots toward Therapy-Carbon-Based Quantum Dots as New Agents for Photodynamic Therapy. In PHARMACEUTICS, 2023, vol. 15, no. 4, pp. Dostupné na: https://doi.org/10.3390/pharmaceutics15041170, Registrované v: WOS

ADMB14 LUBY, Štefan - IVANČO, Ján - JERGEL, Matej - ŠVEC, Peter Jr. - KOTLÁR, Mário - KOSTIUK, Dmytro - HALAHOVETS, Yuriy - KOLLÁR, Jozef - MOSNÁČEK, Jaroslav - MAJKOVÁ, Eva. Thermal stability of gamma-Fe2O3 nanoparticles and their employment for sensing of acetone vapours. In Journal of Physics: Conference Series, 2017, vol. 939, art. no. 012009. (2016: 0.240 - SJR, Q3 - SJR). (2017 - WOS, SCOPUS). ISSN 1742-6588. Dostupné na: https://doi.org/10.1088/1742-6596/939/1/012009

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ADMB15 MUKHOPADHYAY, Chiranjib - PATI, Arun Kumar**. Superposition of causal order enables quantum advantage in teleportation under very noisy channels. In Journal of Physics Communications, 2020, vol. 4, no. 10, 105003. (2019: 0.431 - SJR, Q3 - SJR). ISSN 2399-6528. Dostupné na: https://doi.org/10.1088/2399-6528/abbd77

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ADMB16 NÁDAŽDY, Vojtech - GMUCOVÁ, Katarína - POTURNAYOVÁ, Alexandra - ŠNEJDÁRKOVÁ, Maja - KARPIŠOVÁ, I - LÁNYI, Štefan - HIANIK, Tibor. Detection of cytochrome c with calixarenes incorporated into supported lipid membranes via charge transient measurements. In Procedia Chemistry, 2012, vol. 6, p. 60-68. ISSN 1876-6196. Dostupné na: https://doi.org/10.1016/j.proche.2012.10.131

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ADMB19 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 (VEGA 2/0092/18)

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ADNA Vedecké práce v domácich impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

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ADNA02 KOPANI, Martin - MIKULA, Milan - KOSNAC, Daniel - GREGUS, Jan - PINČÍK,

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1. [1.1] CARRILLO, F. Severiano - ARCILA-LOZANO, L. - SALAZAR-VILLANUEVA, M. - ROJAS-LOPEZ, M. - MENDEZ, J. Flores. Porous Silicon Used for the Determination of Bacteria Concentration Based on its Metabolic Activity. In SILICON, 2023, vol. 15, no. 14, pp. 6113-6119. ISSN 1876-990X. Dostupné na: https://doi.org/10.1007/s12633-023-02502-7, Registrované v: WOS

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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] CHEN, Chi-Fang (Anthony) - LUCAS, Andrew - YIN, Chao. Speed limits and locality in many-body quantum dynamics. In REPORTS ON PROGRESS IN PHYSICS, 2023, vol. 86, no. 11, pp. ISSN 0034-4885. Dostupné na: https://doi.org/10.1088/1361-6633/acfaae, Registrované v: WOS

AFC02 FRÖHLICH, Karol - MIČUŠÍK, Matej - DOBROČKA, Edmund - ŠIFFALOVIČ, Peter - GUCMANN, Filip - FEDOR, Ján. Properties of Al2O3 thin films grown by atomic layer deposition. In ASDAM 2012 : conference proceedings. Eds. Š. Haščík, J. Osvald. - Piscataway : IEEE, 2012, p. 171-174. ISBN 978-1-4673-1195-3. Dostupné na: https://doi.org/10.1109/ASDAM.2012.6418575

Citácie:

1. [1.1] BURWELL, G. - REJNHARD, K. - EVANS, J. - MITCHELL, J. - GRIMES, M.T. - ELWIN, M. - ARMIN, A. - MEREDITH, P. A Low-Temperature Batch Process for the Deposition of High-Quality Conformal Alumina Thin Films for Electronic Applications. In ADVANCED ENGINEERING MATERIALS. ISSN 1438-1656, JUN 2023, vol. 25, no. 12. Dostupné na: https://doi.org/10.1002/adem.202201901, 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.

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https://doi.org/10.1080/00084433.2022.2095138, Registrované v: WOS

AFC04 POULIA, Anthoula - AZAR, Amin Shahrestani - ŠVEC, Peter - BAZIOTI, Calliope - BELLE, Branson - GUNNæS, Anette Eleonora - DIPLAS, Spyros - MIKHEENKO, Pavlo. Nanoscale magnetic properties of additively manufactured FeCoNiAlxMnx high-entropy alloys. In 2020 IEEE 10th International Conference on Nanomaterials: Applications & Properties (NAP-2020) : Proceedings. - Ukraine : Sumy State University, 2021, p. 01NMM02-1-01NMM02-5. ISBN 978-1-7281-8506-4. Dostupné na: https://doi.org/10.1109/NAP51477.2020.9309571

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1. [1.1] MOGHIMIAN, Pouya - POIRIE, Thomas - KROEGER, Jens - MARION, Frederic - LAROUCHE, Frederic. Emerging Functional Metals in Additive Manufacturing. In ADVANCED ENGINEERING MATERIALS, 2023, vol. 25, no. 11, pp. ISSN 1438-1656. Dostupné na: https://doi.org/10.1002/adem.202201800, Registrované v: WOS

AFC05 TRIZAC, E. - ŠAMAJ, Ladislav. Like-charge colloidal attraction: A simple argument. In Proceedings of the International School of Physics "Enrico Fermi": Course CLXXXIV "Physics of Complex Colloids". - Amsterdam : IOS Press, 2013, 2013, vol. 184, p. 61-73. ISBN 978-1-61499--278-3-61. Dostupné na: https://doi.org/10.3254/978-1-61499-278-3-61

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AFC06 VALIK, L. - ŤAPAJNA, Milan - GUCMANN, Filip - FEDOR, Ján - ŠIFFALOVIČ, Peter - FRÖHLICH, Karol. Distribution of fixed oxide charge in MOS structures with ALD grown Al2O3 studied by capacitance measurements. In ASDAM 2012 : conference proceedings. Eds. Š. Haščík, J. Osvald. - Piscataway : IEEE, 2012, p. 227-230. ISBN 978-1-4673-1195-3. Dostupné na: https://doi.org/10.1109/ASDAM.2012.6418526

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1. [1.1] ARROYO, J. Meza - RAO, M. G. Syamala - VENTURA, M. S. de Urquijo - MARTINEZ-LANDEROS, V. H. - DAUNIS, Trey B. B. - RODRIGUEZ, Ovidio - HSU, Julia W. P. - BON, R. Ramirez. All solution-processed hafnium rich hybrid dielectrics for hysteresis free metal-oxide thin-film transistors. In JOURNAL OF MATERIALS CHEMISTRY C, 2023, vol. 11, no. 5, pp. 1824-1841. ISSN 2050-7526. Dostupné na: https://doi.org/10.1039/d2tc03761k, Registrované v: WOS

2. [1.1] GAO, Dawei - SHENOY, Rahul - YI, Suin - LEE, Jungmin - XU, Mingjie - RONG, Zixuan - DEO, Atharva - NATHAN, Dhruva - ZHENG, Jian-Guo - WILLIAMS, R. Stanley - CHEN, Yong. Synaptic Resistor Circuits Based on Al Oxide and Ti Silicide for Concurrent Learning and Signal Processing in Artificial Intelligence Systems. In ADVANCED MATERIALS, 2023, vol. 35, no. 15, pp. ISSN 0935-9648. Dostupné na: https://doi.org/10.1002/adma.202210484, Registrované v: WOS

AFG Abstrakty príspevkov zo zahraničných konferencií

AFG01 NÁDAŽDY, Vojtech - GMUCOVÁ, Katarína - POTURNAYOVÁ, Alexandra - ŠNEJDÁRKOVÁ, Maja - KARPIŠOVÁ, Ivana - LÁNYI, Štefan - HIANIK, Tibor. Detection of cytochrome C with calixarenes incorporated into supported bilayer lipid membranes via charge transient measurements. In 2nd International Conference on Bio-Sensing Technology 2011.Amsterdam, 10 -12 October 2011. - Amsterdam :

Elsevier, p074. (International Conference on Bio-Sensing Technology)
Citácie:
1. [1.1] PRABAWATI, S.Y. - WIDIAKONGKO, P.D. - TAQWIM, M.A. Activated Charcoal from Coffee Dregs Waste as an Alternative Biosorbent of Cu(II) and Ag(I). In INDONESIAN JOURNAL OF CHEMISTRY. ISSN 1411-9420, AUG 2023, vol. 23, no. 4, p. 1120-1128. Dostupné na: https://doi.org/10.22146/ijc.83269, Registrované v: WOS

Nezaradené publikácie

01 DUHAJ, Pavol - ŠVEC, Peter - ZEMCIK, T. Micromechanism of crystallization of Fe80B20 amorphous alloy. In Materials Letters, 1990, vol. 9, no. 7-8, p. 235-241. ISSN 0167-577X. Dostupné na: https://doi.org/10.1016/0167-577X(90)90052-N
Citácie:
1. [1.1] REZAEI-SHAHREZA, Parisa - HASANI, Saeed - SEIFODDINI, Amir - NABIALEK, Marcin - CZAJA, Pawel - SLIWA, Agata. Viscosity of the supercooled liquid and crystallization kinetic analysis in the Fe74B20Nb2Hf2Si2 amorphous alloy. In INTERMETALLICS, 2023, vol. 161, no., pp. ISSN 0966-9795. Dostupné na: https://doi.org/10.1016/j.intermet.2023.107971, Registrované v: WOS

Príloha A-4

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Mgr. Andrej Gendiar, PhD.
Názov semestr. predmetu: Kvantové simulácie a výpočty (FMFI.KTF/3-FTM-207/22)
Počet hodín za semester: 13
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, katedra teoretickej a matematickej fyziky

doc. RNDr. Martin Plesch, PhD.
Názov semestr. predmetu: Mechanika
Počet hodín za semester: 78
Názov katedry a vysokej školy: Fakulta prírodných vied UMB, Katedra fyziky

doc. RNDr. Martin Plesch, PhD.
Názov semestr. predmetu: Termodynamika a štatistika
Počet hodín za semester: 75
Názov katedry a vysokej školy: Fakulta prírodných vied UMB, Katedra fyziky

doc. Mgr. Mário Ziman, PhD.
Názov semestr. predmetu: Fyzikální koncepty kvantového zpracování informace
Počet hodín za semester: 26
Názov katedry a vysokej školy: Masarykova univerzita Brno, ČR, Fakulta informatiky

doc. Mgr. Mário Ziman, PhD.
Názov semestr. predmetu: Introduction to Quantum Information Processing
Počet hodín za semester: 39
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, x

doc. Mgr. Mário Ziman, PhD.
Názov semestr. predmetu: Mathematical structures of quantum theory
Počet hodín za semester: 26
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, x

doc. Mgr. Mário Ziman, PhD.
Názov semestr. predmetu: Programming quantum computers
Počet hodín za semester: 26
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, x

doc. Mgr. Mário Ziman, PhD.
Názov semestr. predmetu: Quantum computing
Počet hodín za semester: 26
Názov katedry a vysokej školy: Fakulta informatiky a informačných technológií STU, x

doc. Mgr. Mário Ziman, PhD.
Názov semestr. predmetu: Quantum structures
Počet hodín za semester: 39
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, x

Semestrálne cvičenia:

Semináre:

Terénne cvičenia:

Individuálne prednášky:

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	Natalia Salomé Móller	3			Peter Rapčan	2
Česko					Vladimír Bužek	2
					Andrej Herzáň	3
					Andrej Herzáň	3
					Ivana Kúdelová	3
					Naďa Mrkývková	4
					Vojtech Nádaždy	1
					Martin Plesch	2
					Anton Repko	1
Čína					Marek Mihalkovič	16
Fínsko	Andrej Herzáň	7			Matúš Sedlák	18
	Andrej Herzáň	10			Martin Venhart	16
	Vladislav Matoušek	16				
	Matúš Sedlák	8				
	Matúš Sedlák	9				
	Magdaléna Šolcová	8				
	Iryna Timchenko Prihodko	8				
	Sebastian Vielhauer	16				
Francúzsko					Andrej Gendiar	4
					Leevi Ilmari Leppäjärvi	8
					Matej Moško	4

					Matej Moško	4
					Samgeeth Puliyil	8
					Ladislav Šamaj	22
					Ladislav Šamaj	14
					Peter Švec	6
					Daniel Truchan	25
					Daniel Truchan	11
Japonsko	Mohammad Hamed Mohammady	55			Andrej Gendiar	12
					Jozef Genzor	12
					Denis Kochan	7
					Matej Moško	12
					Ondrej Šauša	7
Nemecko					Denis Kochan	12
					Denis Kochan	6
					Marek Mihalkovič	27
					Natalia Salomé Móller	8
					Peter Nádaždy	7
					Vojtech Nádaždy	2
					Yuriy Plevachuk	7
Poľsko					Seyed Arash Ghoreishi	30
Rakúsko	Djeylan Vincent Ceylan Aktas	1			Andrej Gendiar	1
					Marek Mihalkovič	3
					Mohammed Hamed Mohammady	7
					Natalia Salomé Móller	1
					Natalia Salomé Móller	1

					Natalia Salomé Móller	1
					Natalia Salomé Móller	2
Španielsko					Djeylan Vincent Ceylan Aktas	4
Švajčiarsko	Stanislav Dubnička	17			Erik Bartoš	14
	Andrej Herzáň	6				
	Andrej Herzáň	3				
	Andrej Liptaj	14				
	Andrej Liptaj	14				
	Igor Maťko	6				
Švédsko					Natalia Salomé Móller	7
					Vojtech Nádaždy	8
Taiwan					Jozef Genzor	37
					Denis Kochan	36
					Denis Kochan	127
Taliansko					Monika Bírová	6
					Matúš Sedlák	6
Ukrajina					Taras Kavetskyy	78
USA					Vladimír Bužek	5
Veľká Británia	Andrej Gendiar	5			Djeylan Vincent Ceylan Aktas	8
					Andrej Gendiar	6
					Roman Krčmár	6
Počet vyslaní spolu	**18**	**206**			**55**	**563**

(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**

Belgicko					Bermej Moran Moises	5
Česko					Libor Šmejkal	4
Čile					Jorge Escadón-Monardes	3
Fínsko					Marwan Haddara	4
					Oskari Kerppo	29
Francúzsko					Younes Benamara	15
India					Arpan Das	5
					Kartik Kakade	9
Irán					Fereshte Shahbeigi	35
Japonsko					Hayato Ando	9
Kamerun					David Amarco Alcala	7
Maďarsko					Andor Kormányos	2
Nemecko					Leonid Golub	7
					Mathias Sebastian Scheurer	4
Poľsko					Michał Oszmaniec	6
					Michal Studziński	5
Rakúsko					Maksym Serbyn	2
					Ofek Bengyat	2
Španielsko					Albert Rico Andrés	5
					Joao Victor Ferreira Alves	5
					Santiago Llorens Fernandez	40
Taiwan					Che-Pin Hsu	30
					Manuel Schneider	26
					Ming-Hao Liu	4
					Wun-Hao	30

					Kang	
Taliansko					Giovanni Scala	31
Ukrajina					Vadym Shvydkyi	15
					Olexander Roik, DrSc.	8
USA					Mark Hillery	14
Veľká Británia					Dieter Meschede	6
					John G. Rarity	4
Počet prijatí spolu					**31**	**371**

(C) Účasť pracovníkov pracoviska na konferenciách v zahraničí (nezahrnutých v "A"):

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Belgicko	1st Management Committee meeting of the COST Actio	Natalia Salomé Móller	3
	ETWG Workshop	Djeylan Vincent Ceylan Aktas	3
	Quantum Technologies Conference	Mário Ziman	3
Bulharsko	Konferencia NATO ASI	Taras Kavetskyy	11
Česko	14th annual conference on"Relativistic Quantum Inf	Natalia Salomé Móller	6
	CEWQO 2024	Michal Sedlák	6
	Fyzika na nanoškále	Naďa Mrkývková	4
	Konferencia NANOCOM	Daniel Truchan	4
	Konferencia Thermophysics 2024	Vlastimil Boháč	3
	Letná škola: Fyzika na nanoškále	Shima Sousani	6
	Micro symposium and V4 project meeting	Karol Végsö	4
	MMM11	Mário Ziman	3
Dánsko	Summer School QMATH Masterclass 2024	Ricardo Rivera Cardoso	8
Fínsko	Workshop Lakeside Quatum 2024 Dialogue	Mário Ziman	10
Francúzsko	Aperiodic 2024	Marek Mihalkovič	9
	EIT Digital Summer School	Ieline Ahmed	7
		Djeylan Vincent Ceylan Aktas	10
	TOFA2024	Yuriy Plevachuk	7
Chorvátsko	AMSE 2024	Taras Kavetskyy	7

	Konferencia JVC 19	Peter Šiffalovič	4
	SSB XI	Denis Kochan	7
India	QCMC	Ieline Ahmed	10
		Ardra Ajitha Vijayan	10
		Samgeeth Puliyil	10
Írsko	Emergence of Classicality	Ardra Ajitha Vijayan	9
		Samgeeth Puliyil	8
		Soham Sau	7
		Michal Sedlák	6
	EoC24	Mohammed Hamed Mohammady	6
	Ireland QCI Dublin 2024	Djeylan Vincent Ceylan Aktas	5
	IrelandQCI	Peter Rapčan	5
Japonsko	PPC13	Ondrej Šauša	6
Nemecko	2024 Arnold Sommerfeld School	Ivan Andreevič Kovalev	5
		Matej Moško	6
	Heraeus workshop	Denis Kochan	5
	IWQC-2024	Ijaz Ahamed Mohammad	10
	SFB 1277	Denis Kochan	3
Poľsko	E-MRS 2024	Mumtaz Manzoor	6
	QID 2024	Mário Ziman	4
	SMP55	Mário Ziman	4
	SSMP55	Seyed Arash Ghoreishi	4
		Samgeeth Puliyil	4
Portugalsko	EQTC 2024	Djeylan Vincent Ceylan Aktas	4
		Mário Ziman	4
Rakúsko	QS Workshop	Djeylan Vincent Ceylan Aktas	3
	SWQI	Leevi Ilmari Leppäjärvi	6
	Vienna Quantum Foundations Conference	Leevi Ilmari Leppäjärvi	7
Španielsko	XXX International Summer School	Muhammad Arslan Raza	8
Švajčiarsko	QKD Summer School	Ieline Ahmed	7
	Swiss Battery Days´24 Conference	Poongodi Ayyanusamy	6
Švédsko	HTC 2024	Yuriy Plevachuk	7
	QIP24	Mohammed Hamed Mohammady	8
Taliansko	Bari 2024 Quantum Summer School	Ardra Ajitha Vijayan	5
		Soham Sau	17
	Quantum 2024	Samgeeth Puliyil	8
	SPD-24 International Workshop on Positron Studies	Taras Kavetskyy	8

	Workshop	Natalia Salomé Móller	5
Turecko	9 th International Congress on Biomaterials & Bios	Taras Kavetskyy	11
Ukrajina	NANO-2024	Yuriy Plevachuk	4
USA	CRYO 2024	Ivan Klbik	6
	Winds 2024	Denis Kochan	7
Veľká Británia	BQIT conference	Djeylan Vincent Ceylan Aktas	4
		Younes Benamara	5
	SEEQA	Ricardo Rivera Cardoso	8
	Summer School	Ricardo Rivera Cardoso	4
Spolu	**54**	**65**	**410**

Vysvetlivky: MAD - medziakademické dohody, KD - kultúrne dohody, VTS - vedecko-technická spolupráca v rámci vládnych dohôd

Skratky použité v tabuľke C:

14th annual conference on"Relativistic Quantum Inf - 14th annual conference on"Relativistic Quantum Information"
1st Management Committee meeting of the COST Actio - 1st Management Committee meeting of the COST Action CA23115
2024 Arnold Sommerfeld School - 2024 Arnold Sommerfeld School
9 th International Congress on Biomaterials & Bios - 9 th International Congress on Biomaterials & Biosensors
AMSE 2024 - International Advanced Materials Sciences and Engineering
Aperiodic 2024 - The 11 th International Conference on Aperiodic Crystals
Bari 2024 Quantum Summer School - Bari 2024 Quantum Summer School
BQIT conference - Bristol Quantum Information Technologies Workshop
CEWQO 2024 - Central European Workshop on Quantum Optics
CRYO 2024 - 61st Annual Meetig of the Society for Cryobiology
E-MRS 2024 - Symposium T-Advance Computional methods for materials design
EIT Digital Summer School - EIT Digital Summer School on Quantum Computing and Information 2024
Emergence of Classicality - Konferencia Emergence of Classicality: New Perspektives on Measurements in Quantum Theory
Emergence of Classicality - Konferencia Emergence of Classicality: New Perspektives on Measurements in Quantum Theory
EoC24 - Emergence of Classicality: New Perspektives on Measurements in Quantum Theory
EQTC 2024 - European Quantum Technologies Conference 2024
ETWG Workshop - ETWG Workshop
Fyzika na nanoškále - Fyzika na nanoškále
Heraeus workshop - Heraeus workshop
HTC 2024 - 11 th International Conference on High Temp Capilar
Ireland QCI Dublin 2024 - Ireland QCI Dublin 2024
IrelandQCI - IrelandQCI
IWQC-2024 - International Workshop on Quantum Compilation 2024
Konferencia JVC 19 - Konferencia JVC 19
Konferencia NANOCOM - Konferencia NANOCOM
Konferencia NATO ASI - Nanotechnological Advances in Enviromental, Cyber and CBRN Security
Konferencia Thermophysics 2024 - Konferencia Thermophysics 2024
Letná škola: Fyzika na nanoškále - Letná škola: Fyzika na nanoškále
Micro symposium and V4 project meeting - Micro symposium and V4 project meeting
MMM11 - The 11th International Conference on Multiscale Materials Modeling
NANO-2024 - 12th International Conference Nanotechnologies and Nanomaterials
PPC13 - 13.medzinárodný workshop o pozitrónovej a pozirtróniovej chémii
QCMC - International Conference on Quantum Communication, Measurement and Computing
QID 2024 - Quantum Information Days
QIP24 - Konference Quantum Information and Probabilty

QKD Summer School - Quantum Key Distribution Summer School
QS Workshop - Migration to Quantum-Safe Workshop
Quantum 2024 - Summer School on Quantum Science and Technologies
Quantum Technologies Conference - Quantum Technologies Conference-Shaping Europe´s Quantum Future
SEEQA - SEEQA konferencia
SFB 1277 - International Workshop 2024 on Emergent Relativistic Effects in Condensed Metter
SMP55 - 55th Symposium on Mathematical Physics
SPD-24 International Workshop on Positron Studies - SPD-24 International Workshop on Positron Studies of Detets 2024
SSB XI - Solid State to Biophysics XI
SSMP55 - 55th Symposium on Mathematical Physics
Summer School - Summer School
Summer School QMATH Masterclass 2024 - Summer School QMATH Masterclass 2024
Swiss Battery Days´24 Conference - Swiss Battery Days´24 Conference
SWQI - 6th Seefeld Workshop on Quantum Information
TOFA2024 - 19th Discussion Meeting on Thermodynamics of Alloys
Vienna Quantum Foundations Conference - Vienna Quantum Foundations Conference
Winds 2024 - Workshop on Innovative Nanoscale Devices and Systems
Workshop - A look at the interface between gravity and quantum theory 2024 edition
Workshop Lakeside Quatum 2024 Dialogue - Workshop Lakeside Quantum 2024 Dialogue
XXX International Summer School - XXX International Summer School

Príloha A-6

Vedecko-popularizačná činnosť pracovníkov organizácie

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Mgr. Erik Bartoš, PhD.		PB	Ako nám urýchľovače uľahčujú život	www.fu.sav.sk/dod	14.11.2024
M.Sc. Younes Benamara	G. Borges	iné	Exploring Quantum – Photonics, Entanglement, and Secure Communication, OpenSlava 2024	FEI STU, Bratislava	16.10.2024
Prof. RNDr. Vladimír Bužek, DrSc.	M. Ziman	PB	Druhá kvantová revolúcia	Kácečko Bratislava	14.4.2024
Mgr. Andrej Gendiar, PhD.	RCQI team	PB	Európska Noc Vedy 2024	Stará Tržnica, Bratislava	27.9.2024
Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.	kolektív z FÚ SAV v. v. i.	iné	Deň otvorených dverí	https://fu.sav.sk/dod/	12.11.2024
Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.	kolektív z FÚ SAV v. v. i.	iné	My sme SAV	Hviezdoslavovo námestie, Bratislava	15.6.2024
Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.	kolektív z FÚ SAV v. v. i.	iné	Noc vedy	Stará tržnica, Bratislava	27.9.2024
prof. Ing. Štefan Luby, DrSc.		TL	Anekdoty z vedy a školstva	Literárny týždenník Vo. 37, č. 25 - 26, 2024, s. 8.	2024
prof. Ing. Štefan Luby, DrSc.		IN	Elektromigrácia a spoľahlivosť integrovaných obvodov	http://www.vystava.sav.sk, Výstava dejín výpočtovej techniky na Slovensku - SAV	2024
prof. Ing. Štefan Luby, DrSc.		PB	M. R. Štefánik - univerzálna osobnosť našich dejín	Hvezdáreň Hlohovec	8.10.2024
prof. Ing. Štefan Luby, DrSc.		PB	Serendipity vo vede - slávne náhodné objavy	Elektrotechnická fakulta Žilinskej univerzity, pozvané	15.5.2024
prof. Ing. Štefan Luby, DrSc.		TL	Svetová veda na prelome tisícročí cez prizmu humoru	Literárny týždenník Vo. 37m č. 35 - 36, 2024, s. 10 - 11.	2024
prof. Ing. Štefan Luby, DrSc.	L. Hluchý na kol. ÚI SAV	IN	Umelá intelogencia - teória a prax, slov. a angl. verzia	https://intercedu.com/posts/Umela-inteligencia-teoria-a-prax	15.6.2024
prof. Ing. Štefan Luby, DrSc.	M. Lánik, M. Ožvold, S. Dubnička	IN	RNDr. Jozef Lánik, DrSc. - spomínanie	Facebook FÚ SAV	25.9.2024
Mgr. Natalia Salomé Móller, PhD.		PB	Európska Noc vedy 2024	Stará tržnica, Bratislava	27.9.2024
doc. RNDr. Martin Plesch, PhD.		RO	Lesk a a bieda Predmetových olympiád, Kontakty, Slovenský Rozhlas, 25 min diskusia s redaktorkou	https://www.rtvs.sk/radio/archiv/11380/2399481	3.9.2024

doc. RNDr. Martin Plesch, PhD.		PB	Popularizačná prednáška	EG BB	17.4.2024
doc. RNDr. Martin Plesch, PhD.		PB	Popularizačná prednáška	FPV UMB 257	13.2.2024
doc. RNDr. Martin Plesch, PhD.		TL	Prioritou vzdelávania na Slovensku má byť talent	https://tlacovespravy.sme.sk/c/23293266/prioritou-vzdelavania-na-slovensku-ma-byt-talent.html	11.3.2024
doc. RNDr. Martin Plesch, PhD.		TV	Príprava mladých vedeckých talentov	https://joj24.noviny.sk/studio-joj-24/985063-studio-24-priprava-mladych-vedeckych-talentov	29.10.2024
doc. RNDr. Martin Plesch, PhD.		TV	Prírodovedné predmety majú byť prioritou stredoškolského vzdelávania, hovoria dve tretiny ľudí na Slovensku, celkovo 44 výstupov vrátane rozhovoru v rozhlase (RTVS)	Viacero miest	22.6.2024
doc. RNDr. Martin Plesch, PhD.		TV	Správy RTVS	https://www.rtvs.sk/televizia/archiv/21274/500051#2107	14.11.2024
doc. RNDr. Martin Plesch, PhD.		TV	Tlačová konferencia o výchove mladých talentov	https://joj24.noviny.sk/tlacove-besedy/990860-tlacova-beseda-ministra-skolstva-o-vychove-mladych-vedeckych-talentov	14.11.2024
doc. RNDr. Martin Plesch, PhD.	Pavol Demeš	TL	Rozhovor P. Demeša s fyzikom Martinom Pleschom o Turnaji mladých fyzikov	https://www.teraz.sk/publicistika/interview-m-plesch/816163-clanok.html	18.8.2024
Saeid Salari, PhD.		PB	Quantum and Us – An Adventure into the Unknown, OpenSlava 2024	FEI STU, Bratislava	17.10.2024
Ing. Matúš Sedlák, PhD.	Vladislav Matoušek, Monika Bírová, Andrej Herzáň, Martin Venhart	iné	70 rokov CERN – Inšpirácia pre budúcnosť	V-klub, Nám. SNP 12, Bratislava	10.6.2024
Ing. Peter Švec, DrSc.		EX	Deň otvorených dverí	https://fu.sav.sk/dod/	12.10.2024
Mgr. Martin Venhart, PhD.		PB	Bude oganesón posledný?	Košická vedecká kaviareň	26.11.2024
Mgr. Martin Venhart, PhD.		PB	Jadrové zbrane: hrozby, ktoré mali ostať v 20. storočí	Základná škola Smolenice	20.6.2024
Mgr. Martin Venhart,		PB	Kde sa vzali chemické prvky vo vesmíre	Gymnázium Grosslingova,	22.2.2024

PhD.				Bratislava	
Mgr. Martin Venhart, PhD.		PB	Nobelove ceny	KC SAV Smolencie	20.6.2024
Mgr. Martin Venhart, PhD.		PB	Nobelove ceny	Trnavská univerzita	21.2.2024
Mgr. Martin Venhart, PhD.		PB	Nobelove ceny	Vedecký park UK	26.1.2024
Mgr. Martin Venhart, PhD.	Pavol Siman, Krasimir Damjan	PB	Prečo potrebujeme vedu?	Viva scientia! Lučenec	28.5.2024
doc. Mgr. Mário Ziman, PhD.		PB	Budúcnosť je kvantová	https://www.aricoma.com/sk/akcie/aricoma-techfokus-2024	11.6.2024
doc. Mgr. Mário Ziman, PhD.		PB	Diskusia k SOČ	1. súkromné gymnázium Bajkalská, Bratislava	16.9.2024
doc. Mgr. Mário Ziman, PhD.		PB	Doba kvantová – od fotónu po qubit	Krajská knižnica Karola Kmeťka, Nitra	13.6.2024
doc. Mgr. Mário Ziman, PhD.		PB	Doba kvantová – od fotónu po qubit	Nová Synagóga, Žilina	12.6.2024
doc. Mgr. Mário Ziman, PhD.		PB	Kvantová budúcnosť?	Aricoma, Bratislava	7.11.2024
doc. Mgr. Mário Ziman, PhD.		PB	Kvantová teleportácia	www.fu.sav.sk/dod	14.11.2024
doc. Mgr. Mário Ziman, PhD.		PB	Kvantová výhoda pre HPC, Superpočítač a Slovensko	Bratislava	14.11.2024
doc. Mgr. Mário Ziman, PhD.		PB	Prvý kvantový FEIk	FEI STU, Bratislava	16.4.2024
doc. Mgr. Mário Ziman, PhD.		PB	Quantum Computing	ITAPA, Bratislava	26.11.2024
doc. Mgr. Mário Ziman, PhD.		PB	QUTE.sk – Kvantové technológie na Slovensku	SOPK Trenčín	3.12.2024
doc. RNDr. Martin Plesch, PhD.		iné	Olympiáda mladých vedcov	www.ijso.sk	4
doc. RNDr. Martin Plesch, PhD.		iné	Turnaj mladých fyzikov	www.tmfsr.sk	5

[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 2024

Domáce ocenenia

Ocenenia SAV

Davalos Gonzalez David, Ziman Mário
Ocenenie špičkových publikácií v kategórii Nature Index publikácie
Oceňovateľ: SAV
Opis: Quantum Dynamics is Not Strictly Bidivisible (Kvantová dynamika nie je striktne dvojdeliteľná)Physical Review Letters, 2023, vol. 130, no. 8, art. no. 080801.

Mičky Simon, Šiffalovič Peter, Végsö Karol
Ocenenie špičkových publikácií v kategórii Špičkové časopisecké publikácie
Oceňovateľ: SAV
Opis: Tunable Subnanometer Gaps in Self-Assembled Monolayer Gold Nanoparticle Superlattices Enabling Strong Plasmonic Field Confinement (Nastaviteľné subnanometrové medzery v samoorganizovaných monovrstvách supermriežok zlatých nanočastíc umožňujúce silné zachytávanie plazmonickým poľom)ACS Nano, 2023, vol. 17, no. 13, pp. 12774-12787.

Mrkývková Naďa, Šiffalovič Peter, Végsö Karol
Ocenenie špičkových publikácií v kategórii Špičkové časopisecké publikácie
Oceňovateľ: SAV
Opis: Flexible array of high-performance and stable formamidinium-based low-n 2D halideperovskite photodetectors for optical imaging (Flexibilný panel vysokovýkonných a stabilných perovskitových fotodetektorov)Nano Energy, Vol. 116 (2023), art. no. 108827.

Šiffalovič Peter, Végsö Karol
Ocenenie špičkových publikácií v kategórii Nature Index publikácie
Oceňovateľ: SAV
Opis: Green colloidal synthesis of MoS2 nanoflakes (Zelená koloidná syntéza dvoj-dimenzionálnych MoS2 nanokryštálov)Inorganic Chemistry, 2023, vol. 62, pp. 16554–16563.

Štich Ivan, Turanský Robert
Ocenenie špičkových publikácií v kategórii Nature Index publikácie
Oceňovateľ: SAV
Opis: Tip-activated single-atom catalysis: CO oxidation on Au adatom on oxidized rutile TiO2 surface (Katalýza na jednom atóme aktivovaná hrotom mikroskopu: Oxidácia molekuly CO na atóme zlata adsorbovanom na oxidovanom povrchu TiO2)Science Advances, 2023, vol. 9, no. 39, art. no. eadi4799.

Iné domáce ocenenia

Jergel Matej
Cena Slovenskej fyzikálnej spoločnosti za vedu
Oceňovateľ: Slovenská fyzikálna spoločnosť

Luby Štefan
Strieborná pamätná plaketa
Oceňovateľ: Spoločnosť M. R. Štefánika
Opis: Plaketa priemeru 6 cm

Luby Štefan
Veľká medaila a pamätný list Slovenskej akadémie pôdohospodárskych vied
Oceňovateľ: Vedenie SAPV
Opis: Medaila priemeru 8 cm

Móller Natalia Salomé
L'Oréal – UNESCO For Women in Science Award
Oceňovateľ: Slovak Commission of UNESCO
Opis: Ocenenie v kategórii Fyzikálne a formálne vedy.

Fyzikálny ústav SAV, v. v. i.

Výročná správa o činnosti a hospodárení za rok 2024

Bratislava
2025

ČASŤ B

Fyzikálny ústav SAV, v. v. i.

Výročná správa o hospodárení organizácie

za rok 2024

ČASŤ B
Výročná správa o hospodárení organizácie za rok 2024

Obsah

19. Základné informácie o hospodárení organizácie
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21. Pohyb a konečný stav majetku
22. Opatrenia na odstránenie nedostatkov v hospodárení a správa o plnení opatrení prijatých na odstránenie nedostatkov z predchádzajúceho roku
23. Ďalšie údaje o hospodárení organizácie

[Údaje o spracovaní výročnej správy o hospodárení]

[Stanoviská orgánov v. v. i.]

[Údaje a elektronický podpis riaditeľa organizácie]

PRÍLOHY K ČASTI B

B-1 Ročná účtovná závierka
B-2 Správa štatutárneho audítora k ročnej účtovnej závierke

19. Základné informácie o hospodárení organizácie

(v zmysle §20, ods. 1 zákona č. 431/2002 Z. z. o účtovníctve)

19.1 Prehľad základných finančných ukazovateľov

	k 31. 12. 2024	k 31. 12. 2023
Finančné výsledky (v euro)		
Aktíva	**9 043 414,20**	**8 087 495,19**
Neobežný majetok	**4 030 782,58**	**2 420 607,70**
Dlhodobý nehmotný majetok	3 710,03	5 983,11
Dlhodobý hmotný majetok	4 027 072,55	2 414 624,59
Dlhodobý finančný majetok	0,00	0,00
Obežný majetok	**5 008 513,83**	**5 660 799,77**
Zásoby	56,84	0,00
Dlhodobé pohľadávky	0,00	0,00
Krátkodobé pohľadávky	8 123,28	1 017 945,14
Finančné účty	5 000 333,71	4 642 854,63
Časové rozlíšenie	**4 117,79**	**6 087,72**
Pasíva	**9 043 414,20**	**8 087 495,19**
Vlastné imanie	**937 659,09**	**480 039,23**
Základné imanie	77 450,04	77 450,04
Nevysporiadaný HV minulých rokov	401 962,89	401 962,89
Výsledok hospodárenia za účtovné obdobie	457 619,86	96,30
Záväzky	**737 801,41**	**465 702,83**
Zúčtovanie medzi subjektami VS (2024)	50 325	0,00
Dlhodobé záväzky	9 881,31	188 969,26
Krátkodobé záväzky	677 595,51	276 733,57
Bankové úvery a iná výpomoci a pôžičky	**0,00**	**0,00**
Časové rozlíšenie	**7 367 953,70**	**7 141 753,13**
Výkaz ziskov a strát		
Výsledok hospodárenia z hlavnej činnosti		
Tržby z predaja tovarov a služieb	61 223,34	90 562,00
Iné ostatné výnosy	478 528,80	15 642,12
Dotácie	5 130 351,38	4 409 580,21
Transfery (2021)	0,00	0,00
Prijaté príspevky od právnických osôb	433 560,52	183 527,88
Celkové náklady účtovná trieda 5.	**5 645 549,19**	**4 699 050,92**
Výsledok hospodárenia pred zdanením		
Výsledok hospodárenia pred zdanením	**458 114,85**	**261,29**
Výsledok hospodárenia po zdanení	**457 619,86**	**96,30**
Pomerové ukazovatele		
.. Rentabilita aktív (ROA)	5,06 %	0,01 %
Rentabilita vlastného imania (ROE)	48,80 %	0,02 %

19.2 Ďalšie informácie o stave a vývoji organizácie z hľadiska hospodárenia

a) Po uzavretí účtovného obdobia kalendárneho roka 2024 nastali udalosti zásadného významu z hľadiska hospodárenia organizácie

Opis vzniknutých udalostí: Fyzikálny ústav SAV, v. v. i. v roku 2024 nesprávne účtoval predaj dlhodobého majetku na základe kúpnej zmluvy uzavretej v roku 2024. Kúpna cena bola určená vo výške 935 608,33 Eur a pozostávala z dvoch splátok. Prvá splátka kúpnej ceny bola pripísaná na základe vystavenej faktúry v prospech bankového účtu v decembri 2024 vo výške 467 804,20 EUR. Avšak k reálnemu dodaniu hnuteľnej veci a k doplateniu druhej splátky došlo v máji 2025. Naša účtovná jednotka nesprávne vyhodnotila a zaúčtovala prvú splátku na základe vystavenej faktúry v sume 467 804,20 EUR na účet 651 „Tržby z predaja dlhodobého majetku“. Prijatá suma v decembri 2024 sa mala správne účtovať na ťarchu účtu 324 „Prijaté preddavky“. Oprava uvedených skutočností sa uskutoční v účtovnom období 06/2025. Následne sa za rok 2025 uvedie celá suma 935 608,33 EUR v zdaňovanej činnosti a vyčísli sa k nej príslušná sadzba dane podľa platných predpisov pre rok 2025.

b) Predpokladaný budúci vývoj organizácie v roku 2025

Organizácia bude pokračovať vo svojich aktivitách v súlade so zakladacou listinou a hlavným predmetom činnosti. Z významnejších aktivít možno uviesť prebiehajúcu realizáciu viacerých projektov z Plánu obnovy a odolnosti a z Európskej komisie.

c) Náklady na činnosť v oblasti výskumu a vývoja

V súlade so zameraním inštitúcie sú všetky náklady v. v. i. vykazované v časti výkazu ziskov a strát účtovnej závierky nákladmi na činnosť v oblasti výskumu a vývoja.

d) Návrh na rozdelenie zisku alebo vyrovnanie straty

O rozdelení zisku alebo vyrovnávaní strát rozhoduje správna rada v spolupráci s dozornou radou organizácie, v súlade so zákonom č. 243/2017 Z. z. o verejnej výskumnej inštitúcii.

e) Informácia o konsolidácii účtovníctva organizácie:

Rozpočet organizácie je súčasťou konsolidovaného celku rozpočtovej kapitoly SAV.

20. Prehľad príjmov a výdavkov

(v zmysle § 27, ods. 4, písm. g zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

Príjmy a výdavky z hlavnej činnosti

	FP k 01.01.2024	Schválený rozpočet	Upravený rozpočet	Skutočnosť príjmy	Skutočnosť výdavky	Zostatok FP k 31.12.2024
1	2	3	4	5	6	7
Spolu	**4 634 019,37**	**3 133 362,00**	**8 526 344,58**	**8 613 482,58**	**8 257 049,55**	**4 990 452,40**
Z toho:						
ŠR ZDROJ 131 (APVV)	1 657,83	0,00	0,00	0,00	1 657,83	0,00
ŠR ZDROJ 131 (MŠ SR)	100 000,00	0,00	0,00	0,00	100 000,00	0,00
ŠR ZDROJ 131 (IFP)	42 522,80	0,00	0,00	0,00	42 522,80	0,00
ŠR ZDROJ 111 (IFP)	0,00	2 713 437,00	3 869 145,92	3 869 145,92	3 869 145,92	0,00
ŠR ZDROJ 111 (MŠ SR)	0,00	10 000,00	10 000,00	10 000,00	10 000,00	0,00
ŠR ZDROJ 111 (VZ)	0,00	0,00	103 116,00	103 116,00	103 116,00	0,00
ŠR ZDROJ 111 (APVV)	0,00	218 065,00	455 363,00	542 501,00	491 572,02	50 928,98
ŠR ZDROJ 1AA, 3AA (ŠF EÚ)	133 714,35	0,00	49 487,47	49 487,47	15 891,37	167 310,45
ŠR ZDROJ 3P01, 3P02 (POO)	2 062 545,51	0,00	2 174 888,37	2 174 888,37	2 148 705,36	2 088 728,52
Spolu zo ŠR	**2 340 440,49**	**2 941 502,00**	**6 662 000,76**	**6 749 138,76**	**6 782 611,30**	**2 306 967,95**
Zahraničie ZDR. 11GR/13GR, 35	2 037 979,62	65 760,00	1 305 508,28	1 305 508,28	1 349 596,87	1 993 891,03
Vlastné zdroje ZDROJ 46	255 599,26	126 100,00	558 835,54	558 835,54	124 841,38	689 593,42

Príjmy a výdavky (v zmysle zákona č. 243/2017 Z. z.)	**Príjmy**	**Výdavky**
z hlavnej činnosti okrem druhého a tretieho bodu	13 247 501,95	8 257 049,55
činnosti podľa § 2 ods. 1 písm. a) zákona	0,00	0,00
činnosti podľa § 2 ods. 1 písm. b) zákona	0,00	0,00
činnosti podľa § 2 ods. 1 písm. c) zákona	0,00	0,00
činnosti podľa § 2 ods. 1 písm. d) zákona	0,00	0,00
činnosti podľa § 2 ods. 1 písm. e) zákona	0,00	0,00

Organizácia eviduje príjmy a výdavky z hlavnej (nezdaňovanej) činnosti a zdaňované príjmy z nájmu majetku. Podnikateľskú (zdaňovanú) činnosť neprevádzkuje.

Zdrojom financovania sú finančné prostriedky zo SAV formou inštitucionálnej podpory výskumu a vývoja a výkonnostnej zmluvy, projekty z APVV, projekty z POO, projekty zo ŠF a iné zahraničné zdroje financovania.

21. Pohyb a konečný stav majetku

(v zmysle § 27, ods. 4, písm. h zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

Majetok

(celkové aktíva brutto)

	2024	2023
Celkové aktíva [€]	31 117 796,69	29 534 042,05
Nárast aktív [%]	5,36	

Štruktúra majetku

(aktíva brutto)

	2024			2023
	v euro	(%) podiel	v euro	(%) podiel
Dlhodobý nehmotný majetok	34 859,95	0,112	34 859,95	0,112
Dlhodobý hmotný majetok	25 974 489,51	83,471	23 736 479	80,37
Dlhodobý finančný majetok	0,00	0,00	0,00	0,00
Dlhodobé pohľadávky	0,00	0,00	0,00	0,00
Krátkodobé pohľadávky	103 938,89	0,334	1 113 760,75	3,77
Zásoby	56,84	0,0001	0,00	0,00
Finančné účty	5 000 333,71	16,069	4 642 854,63	15,72
Časové rozlíšenie	4 117,79	0,013	6 087,72	0,02
Aktíva (Majetok brutto)	**31 117 796,69**	**100**	**29 534 042,05**	**100**

Majetok

(celkové aktíva netto)

	2024	2023
Celkové aktíva [€]	9 043 414,20	8 087 495,19
Nárast aktív [%]	11,82	

Štruktúra majetku

(aktíva netto)

	2024		2023	
	v euro	(%) podiel	v euro	(%) podiel
Dlhod. nehmotný majetok	3 710,03	0,04	5 983,11	0,07
Dlhodobý hmotný majetok	4 027 072,55	44,53	2 414 624,59	29,86
Dlhodobý finančný majetok	0,00	0,00	0,00	0,00
Dlhodobé pohľadávky	0,00	0,00	0,00	0,00
Krátkodobé pohľadávky	8 123,28	0,09	1 017 945 14	12,59
Zásoby	56,84	0,00	0,00	0,00
Finančné účty	5 000 333,71	55,29	4 642 854,63	57,41
Časové rozlíšenie	4 117,79	0,05	6 087,72	0,08
Aktíva	**9 043 414,20**	**100**	**8 087 495,19**	**100**

22. Opatrenia na odstránenie nedostatkov v hospodárení a správa o plnení opatrení prijatých na odstránenie nedostatkov z predchádzajúceho roku

(v zmysle § 27, ods. 4, písm. i zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

V dňoch 16.01.2024 – 15.05.2024 bol vykonaný štátny vládny audit zo strany Úradu vládneho auditu, Drieňová 34, 826 50 Bratislava s cieľom overenia a hodnotenia finančného riadenia organizácie Fyzikálny ústav SAV, v. v. i. so zameraním na procesné zabezpečenie transformácie na v.v.i., riadenia rizík, finančnej kontroly, hospodárenie s verejnými prostriedkami, nakladania s majetkom a vedenie účtovníctva vrátane vyhotovovania výkazov v auditovanom období 1.1.2022 – 31.12.2023.

V rámci vládneho auditu boli zistené nasledovné nedostatky:

1. Nezabezpečenie dostatočnej úrovne finančného riadenia – nezabezpečením riadenia rizík, nesúladom interných riadiacich aktov so všeobecnými záväznými právnymi predpismi, resp. neaktuálnosťou interných riadiacich aktov.
2. Nevykonávanie základnej finančnej kontroly, nevykonávanie základnej finančnej kontroly zákonom stanoveným spôsobom, resp. formálne vykonávanie základnej finančnej kontroly.
3. Nezverejnenie povinne zverejňovaných zmlúv v CRZ v súlade so zákonom.
4. Nezverejňovanie správnych údajov o vyhotovených objednávkach, resp. nezverejňovanie všetkých údajov o objednávkach a faktúrach na webovom sídle povinnej osoby.

Zo strany Fyzikálneho ústavu SAV, v.v.i. bol predložený audítorom zoznam prijatých opatrení na odstránenie zistených nedostatkov, splnenie prijatých opatrení a relevantná dokumentácia preukazujúca splnenie prijatých opatrení:

1. Zodpovední zamestnanci boli preukázateľne oboznámení s nedostatkami zistenými vládnym auditom.
2. Vypracovanie internej Smernice o riadení rizík.
3. Aktualizácia Organizačného poriadku, Zásad obehu účtovných dokladov a Smernice o vykonaní finančnej kontroly.
4. Vypracovanie internej smernice o verejnom obstarávaní.
5. Nastavenie interných procesov tak, aby bol základnou finančnou kontrolou overený súlad každej finančnej operácie alebo jej časti. Aktualizácia tlačív na výkon Základnej finančnej kontroly.
6. Zverejňovanie povinne zverejňovaných zmlúv v CRZ v súlade so zákonom.
7. Zverejňovanie správnych údajov o vyhotovených objednávkach a faktúrach na webovom sídle organizácie.

23. Ďalšie údaje o hospodárení organizácie

(v zmysle § 27, ods. 4, písm. j zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

23.1. Výdavky organizácie – štruktúra zdrojov

Tabuľka 23a Výdavky organizácie podľa štruktúry zdrojov (skutočnosť k 31. 12. 2024 v €)

Typ organizácie *v.v.i.*		**Zdroje, z ktorých sa kryli jednotlivé výdavky**			
Výdavky	**Spolu**	**kapitola SAV+VZ (111)**	**iné štátne a verejné zdroje**	**ostatné zdroje**	**% krytia z kapitoly SAV**
1. Bežné výdavky	5 276 289	3 873 171	885 587	517 531	73,43
Z toho:					
mzdy (610)	2 546 579	2 116 517	267 423	162 639	83,06
vedecká výchova štipendiá (640)	3 66 214	301 075	47 137	18 002	82,21
poistné a príspevok do poisťovní (620)	927 073	766 237	92 991	67 845	82,62
tovary a služby (630)	1 214 466	689 342	288 379	236 745	56,75
transfery partnerom projektov (640)	221 957	0	189 657	32 300	0
2. Kapitálové výdavky	2 980 761	99 092	1 880 582	1 001 087	3,32
Z toho:					
obstarávanie kapitálových aktív	2 194 457	99 092	1 094 278	1 001 087	4,51
kapitálové transfery	786 304	0	786 304	0	0

23.2. Zdroje financovania organizácie

Tabuľka 23b Zdroje financovania organizácie (skutočnosť k 31. 12. 2024 v €)

		Z toho kategórie			
Zdroje	**Spolu**	**Kapitálové zdroje**	**zdroje na mzdy (610)**	**zdroje na odvody do poisťovní (620)**	**zdroje na transfery partnerom projektov**
1. kapitola SAV (111)	3 972 263	99 092	2 116 517	766 237	0
Z toho:					
VEGA	172 653	0	0	0	0
MVTS výskumné projekty	45 666	0	0	0	0
MVTS podpora	31 772	1 667	0	0	0
SASPRO/MOREPRO/ IMPULZ	213 230	16 425	106 433	38 520	0
Vydávanie časopisov	0	0	0	0	0
Doktorandské štúdium (štipendiá)	301 074	0	0	0	0
OTAS (630)	122 906	0	0	0	0
Iné - VZ	103 116	0	36 711	13 289	
2. ŠF EÚ vr. fin. zo ŠR	15 891	0	6 453	2 556	0
3. medzinárodné grantové projekty	1 349 597	0	149 157	62 923	0
Z toho:					
H2020	0	0	0	0	0
Iné	1 349 597	0	149 157	62 923	0
4. iné štátne a verejné zdroje (spolu)	2 766 169	1 880 582	267 423	92 991	975 961
Z toho					
APVV	493 230	0	99 220	35 122	176 128
podpora z kapitoly MŠVVaŠ SR (stimuly)	110 000	100 000	0	0	0
Iné-POO	2 162 939	1 880 582	168 203	57 869	799 833
5. ostatné zdroje	558 836	37 769	13 482	4 922	
Z toho:					
príjmy z prenájmu	10 719	0	0	0	0
príjmy z podnikateľskej činnosti	0	0	0	0	0
príjmy z expertnej činnosti a služieb	54 564	0	13 482	4 922	0
Iné	493 553	37 769	0	0	0

23.3 Ostatné údaje o hospodárení organizácie

Organizácia od 1.1.2022 zmenila právnu formu z príspevkovej organizácia na verejnú výskumnú organizáciu. Pri vedení účtovníctva postupujeme podľa Opatrenia MF SR č. MF/24342/2007- 74 zo dňa 14.11.2007 v znení neskorších predpisov, ktorým sa ustanovujú podrobnosti o postupoch účtovania a účtovej osnove pre účtovné jednotky, ktoré nie sú založené alebo zriadené na účel podnikania.

V zmysle § 26 ods. 6 Zákona 243/2017 o verejnej výskumnej inštitúcii je verejná výskumná inštitúcia povinná zabezpečiť raz za štyri roky overenie účtovnej závierky štatutárnym auditom. Účtovná závierka za rok 2024 je predmetom overenia štatutárnym audítorom:

NAŠA RADOSŤ, s.r.o.
Malé Leváre 145
908 74 Malé Leváre
IČO: 50696955
Licencia UDVA č. 441

Výročnú správu o hospodárení organizácie

zostavila: Mgr. Andrea Korenková

Stanoviská orgánov v. v. i. k výročnej správe o činnosti a hospodárení organizácie

Stanovisko správnej rady
Správna rada na svojom zasadnutí dňa 16.07.2025 skonštatovala, že predložená výročná správa poskytuje potrebný prehľad a požadované údaje o činnosti a hospodárení Fyzikálneho ústavu SAV, v. v. i. v roku 2024 a nemá k nej pripomienky.

Stanovisko vedeckej rady
Vedecká rada na zasadnutí per rollam dňa 14. 07. 2025 - 16.07.2025 skonštatovala, že predložená výročná správa poskytuje potrebný prehľad a požadované údaje o činnosti a hospodárení Fyzikálneho ústavu SAV, v. v. i. v roku 2024 a nemá k nej pripomienky.

Stanovisko dozornej rady
Dozorná rada na svojom zasadnutí dňa 25.07.2025 skonštatovala, že predložená výročná správa poskytuje potrebný prehľad a požadované údaje o činnosti a hospodárení Fyzikálneho ústavu SAV, v. v. i. v roku 2024 a nemá k nej pripomienky.

[Elektronický podpis riaditeľa organizácie]

Bratislava, 25.07.2025

PRÍLOHY K ČASTI B

Príloha B-1 Ročná účtovná závierka

Príloha B-2 Správa štatutárneho audítora k ročnej účtovnej uzávierke

UZNUJv21_1

Úč NUJ

ÚČTOVNÁ ZÁVIERKA

neziskovej účtovnej jednotky účtujúcej v sústave podvojného účtovníctva

zostavená k 31.12.2024

Daňové identifikačné číslo	Účtovná závierka	Za obdobie	Mesiac	Rok
2020830339	x riadna	od	01	2024
IČO	mimoriadna	do	12	2024
00000016653 7	priebežná	Bezprostredne predchádzajúce obdobie od	01	2023
SK NACE	(vyznačí sa x)	do	12	2023
72.19.0				

Priložené súčasti účtovnej závierky

- X Súvaha (Úč NUJ 1-01) *(v eurocentoch)*
- X Výkaz ziskov a strát (Úč NUJ 2-01) *(v eurocentoch)*
- X Poznámky (Úč NUJ 3-01) *(v celých eurách alebo eurocentoch)*

Názov účtovnej jednotky

Fyzikálny ústav SAV, v.v.i.

Sídlo účtovnej jednotky

Ulica: Dúbravská cesta

Číslo: 3484/9

PSČ: 84511

Obec: Bratislava

Telefónne číslo: 02/59410578

E-mailová adresa: jana.kovacova@savba.sk

Zostavená dňa:	Schválená dňa:	Podpisový záznam štatutárneho orgánu alebo člena štatutárneho orgánu účtovnej jednotky:
25.03.2025	25.07.2025	

Súvaha Uč. NUJ 1 - 01

SÚVAHA

k 31.12.2024

(v eurách zaokrúhlene na dve desatinné miesta)

	mesiac	rok		mesiac	rok
Za bežné účtovné obdobie od	01	2024	**do**	12	2024
Za bezprostredne predchádzajúce účtovné obdobie od	01	2023	**do**	12	2023

Účtovná závierka

X **- riadna**

- mimoriadna

Daňové identifikačné číslo

IČO 00166537 **SID**

Kód SK NACE

Názov účtovnej jednotky

Fyzikálny ústav SAV, v. v. i.

Sídlo účtovnej jednotky

Ulica a číslo

Dúbravská cesta 9

PSČ 84511 Názov obce Bratislava

Smerové číslo telefónu 002 Číslo telefónu 5941051717 Číslo faxu 54776085

E-mailová adresa

secretary.fusav@savba.sk

Zostavená dňa	Podpisový záznam osoby zodpovednej za vedenie účtovníctva:	Podpisový záznam osoby zodpovednej za zostavenie účtovnej závierky:	Podpisový záznam štatutárneho orgánu alebo člena štatutárneho orgánu účtovnej jednotky:
31.3.2025			

Autor: Slezáková

STRANA AKTÍV		č.r.	Bežné účtovné obdobie			Bezprostredne prechádzajúce účtovné obdobie
			Brutto	Korekcia	Netto	
a		b	1	2	3	4
A.	Neobežný majetok spolu r.002+r.009+r.021	1	26 009 349,46	21 978 566,88	4 030 782,58	2 420 607,70
A.I.	Dlhodobý nehmotný majetok r.003 až r.008	2	34 859,95	31 149,92	3 710,03	5 983,11
A.I.1.	Nehm. výsledky vývojovej a obd. činn.012 -(072+091AÚ)	3	0,00	0,00	0,00	0,00
2.	Softvér 013-(073+091AÚ)	4	34 859,95	31 149,92	3 710,03	5 983,11
3.	Oceniteľné práva 014-(074+091AÚ)	5	0,00	0,00	0,00	0,00
4.	Ost. dlhodobý nehm. maj.(018+019)-(078+079+091AÚ)	6	0,00	0,00	0,00	0,00
5.	Obstaranie dlhodobého NM (041-093)	7	0,00	0,00	0,00	0,00
6.	Poskytnuté preddavky na DNM (051-095AÚ)	8	0,00	0,00	0,00	0,00
A.II.	Dlhodobý hmotný majetok r.010 až r.020	9	25 974 489,51	21 947 416,96	4 027 072,55	2 414 624,59
A.II.1.	Pozemky (031)	10	77 450,04	0,00	77 450,04	77 450,04
2.	Umelecké diela a zbierky (032)	11	0,00	0,00	0,00	0,00
3.	Stavby 021-(081+092 AÚ)	12	2 484 440,34	1 465 759,46	1 018 680,88	1 057 702,72
4.	Samostat. hnut. veci a súb. hnut.vecí 022-(082+092AÚ)	13	23 270 165,00	20 469 382,21	2 800 782,79	1 245 168,95
5.	Dopravné prostriedky 023-(083+092AÚ)	14	35 032,80	9 488,96	25 543,84	34 302,88
6.	Pestovateľské celky trvalých porastov 025-(085+092AÚ)	15	0,00	0,00	0,00	0,00
7.	Základné stádo a ťažné zvieratá 026-(086+092AÚ)	16	0,00	0,00	0,00	0,00
8.	Drobný dlhodobý hmotný majetok 028-(088+092AÚ)	17	2 786,33	2 786,33	0,00	0,00
9.	Ostatný dlhodobý hmotný majetok 029-(089+092AÚ)	18	0,00	0,00	0,00	0,00
10.	Obstaranie dlohodobého hmotného majetku (042-094)	19	104 615,00	0,00	104 615,00	0,00
11.	Poskytnuté preddavky na DHM (052-095AÚ)	20	0,00	0,00	0,00	0,00
A.III.	Dlhodobý finančný majetok súčet r.022 až r.028	21	0,00	0,00	0,00	0,00
A.III.1.	Pod. CP a podiely v obch.spol. v ovládanej osobe	22	0,00	0,00	0,00	0,00
2.	Pod.CP a podiely v obch. spol. s podst. vplyvom	23	0,00	0,00	0,00	0,00
3.	Dlhové CP držané do splatnosti (065-096AÚ)	24	0,00	0,00	0,00	0,00
4.	Pôžičky podnikom v skupine a ost. pôžičky	25	0,00	0,00	0,00	0,00
5.	Ostat. dlhodobý fin. majetok (069-096AÚ)	26	0,00	0,00	0,00	0,00
6.	Obstaranie dlhodobého fin. majetku (043-096AÚ)	27	0,00	0,00	0,00	0,00
7.	Poskyt. preddavky na dlhodob fin. majetok(053-096A)	28	0,00	0,00	0,00	0,00

STRANA AKTÍV	č.r.	Bežné účtovné obdobie			Bezprostredne prechádzajúce účtovné obdobie
		Brutto	Korekcia	Netto	
a	b	1	2	3	4
B. OBEŽNÝ MAJETOK SPOLU r.030+r.037+r.042+r.051	29	5 104 329,44	95 815,61	5 008 513,83	5 660 799,77
B.I. Zásoby r.031 až r.036	30	56,84	0,00	56,84	0,00
B.I.1. Materiál (112+119)-191	31	56,84	0,00	56,84	0,00
2. Nedok. výr. a polotovary vl. výr. (121+122)-(192+193)	32	0,00	0,00	0,00	0,00
3. Výrobky (123-194)	33	0,00	0,00	0,00	0,00
4. Zvieratá (124-195)	34	0,00	0,00	0,00	0,00
5. Tovar (132+139)-139	35	0,00	0,00	0,00	0,00
6. Poskyt. prevádz. preddavky na zás. (314AÚ-391AÚ)	36	0,00	0,00	0,00	0,00
B.II. Dlhodobé pohľadávky r.038 až r.041	37	0,00	0,00	0,00	0,00
B.II.1. Pohľadávky z obch. styku (311AÚ až 314AÚ)-391AÚ	38	0,00	0,00	0,00	0,00
2. Ostatné pohľadávky (315AÚ-391AÚ)	39	0,00	0,00	0,00	0,00
3. Pohľadávky voči účastníkom združení (358AÚ-391AÚ)	40	0,00	0,00	0,00	0,00
4. Iné pohľadávky (335AÚ+373AÚ+375AÚ+378AÚ)-391AÚ	41	0,00	0,00	0,00	0,00
B.III. Krátkodobé pohľadávky r.043 až r.050	42	103 938,89	95 815,61	8 123,28	1 017 945,14
B.III.1. Pohľadávky z obch. styku (311AÚ až 314AÚ)-391AÚ	43	4 500,00	0,00	4 500,00	0,00
2. Ostatné pohľadávky (315AÚ-391AÚ)	44	95 815,61	95 815,61	0,00	0,00
3. Zúčt. so Soc. poisť. a zdrav. poisť. (336)	45	0,00	0,00	0,00	0,00
4. Daňovné pohľadávky (341 až 345)	46	0,00	0,00	0,00	0,00
5. Pohl. z dôvodu fin. vzťahov k ŠR a rozp.úz.samospr	47	0,00	0,00	0,00	1 017 628,00
6. Pohľadávky voči účastníkom združení (358AÚ-391AÚ)	48	0,00	0,00	0,00	0,00
7. Spojovací účet pri združení (396-391AÚ)	49	0,00	0,00	0,00	0,00
8. Iné pohľadávky (335 AÚ+373AÚ+375AÚ+378AÚ)-391AÚ	50	3 623,28	0,00	3 623,28	317,14
B.IV. Finančné účty r.052 až r.056	51	5 000 333,71	0,00	5 000 333,71	4 642 854,63
B.IV.1 Pokladnica (211+213)	52	0,00	0,00	0,00	0,00
2. Bankové účty (221AÚ+261)	53	5 000 333,71	0,00	5 000 333,71	4 642 854,63
3. Bank. účty s dobou viazan.dlhšou ako 1 r. (221AÚ)	54	0,00	0,00	0,00	0,00
4. Krátkodobý fin.	55	0,00	0,00	0,00	0,00
5. Obstaranie krátkodobého fin.majetku (259-291AÚ)	56	0,00	0,00	0,00	0,00
C. ČASOVÉ ROZLÍŠENIE SPOLU r.058 a r.059	57	4 117,79	0,00	4 117,79	6 087,72
C.1. Náklady budúcich období (381)	58	4 117,79	0,00	4 117,79	6 087,72
2. Príjmy budúcich období (385)	59	0,00	0,00	0,00	0,00
MAJETOK SPOLU r.001+r.029+r.057	60	31 117 796,69	22 074 382,49	9 043 414,20	8 087 495,19

STRANA PASÍV	č.r.	Bežné účtovné obdobie	Bezprostredne prechádzajúce účtovné obdobie
a	b	5	6
A. VLASTNÉ IMANIE r.062+r.067+r.071+r.072	61	937 659,09	480 039,23
A.I. Imanie a fondy r.063 až r.066	62	77 450,04	77 450,04
A.I.1. Základné imanie (411)	63	77 450,04	77 450,04
2. Fondy tvorené podľa osobit. predpisov (412)	64	0,00	0,00
3. Fond reprodukcie (413)	65	0,00	0,00
4. Oceňovacie rozdiely z precenenia kap.účastín (415)	66	0,00	0,00
A.II. Fondy tvorené zo zisku r.068 až r.070	67	626,30	530,00
2. Rezervný fond (421)	68	626,30	530,00
3. Fondy tvorené zo zisku (423)	69	0,00	0,00
4. Ostatné fondy (427)	70	0,00	0,00
A.III. Nevysporiadaný výsledok hosp. min.rokov (+/-428)	71	401 962,89	401 962,89
A.IV. VÝSLEDOK HOSP. ZA	72	457 619,86	96,30
B. ZÁVÄZKY r.074+r.078+r.086+r.096	73	737 801,41	465 702,83
B.I.1. REZERVY r.075 až r.077	74	0,00	0,00
2. Rezervy zákonné (451AÚ)	75	0,00	0,00
3. Ostatné rezervy (459AÚ)	76	0,00	0,00
4. Krátkodobé rezervy (323+451AÚ+459AÚ)	77	0,00	0,00
B.II. Dlhodobé záväzky r.079 až r.085	78	9 881,31	188 969,26
B.II.1. Záväzky zo sociálneho fondu (472)	79	9 881,31	8 795,26
2. Vydané dlhopisy (473-255AÚ)	80	0,00	0,00
3. Záväzky z nájmu (474AÚ)	81	0,00	0,00
4. Dlhodobé prijaté preddavky (475)	82	0,00	0,00
5. Dlhodobé nevyfakturované dodávky (476AÚ)	83	0,00	0,00
6. Dlhodobé zmenky na úhradu (478)	84	0,00	0,00
7. Ostatné dlhodobé záväzky (373AÚ+479AÚ)	85	0,00	180 174,00
B.III. Krátkodobé záväzky r.087 až r.095	86	727 920,10	276 733,57
B.III.1 Záväzky z obchodného styku (321 až 326) okrem 323	87	522 817,60	89 979,57
2. Záväzky voči zamestnancom (331+333)	88	0,00	0,00
3. Zúčt. so Soc. poisťovňou a zdrav.poisťovňami (336)	89	0,00	0,00
4. Daňové záväzky (341 až 345)	90	153 427,86	65 000,00
5. Záv. z dôvodu fin. vzťahov k ŠR a rozp.ÚS (346+348)	91	50 325,00	0,00
6. Záv. z upísaných nesplat. CP a vkladov (367)	92	0,00	0,00
7. Záväzky voči účastníkom združení (368)	93	0,00	0,00
8. Spojovací účet pri združení (396)	94	0,00	0,00
9. Ost. záväzky (379+373AÚ+474AÚ+476AÚ+479AÚ)	95	1 349,64	121 754,00
B.IV. Bankové úvery a iné výpomoci a pôžičky r.097 až r.099	96	0,00	0,00
B.IV.1 Dlhodobé bankové úvery (461AÚ)	97	0,00	0,00
2. Bežné bankové úvery (231+232+461AÚ)	98	0,00	0,00
3. Prijaté krátkodobé finančné výpomoci (241+249)	99	0,00	0,00
C. ČASOVÉ ROZLÍŠENIE SPOLU r.101 až r.103	100	7 367 953,70	7 141 753,13
C.I.1. Výdavky budúcich období (383)	101	0,00	0,00
2. Výnosy budúcich období krátkodobé (384AÚ)	102	2 973 807,29	2 824 073,43
3. Výnosy budúcich období dlhodobé (384AÚ)	103	4 394 146,41	4 317 679,70
SPOLU VLASTNÉ IMANIE, ZÁVÄZKY a ÚČTY ČAS.ROZL.	104	9 043 414,20	8 087 495,19

Výsledovka Uč. NUJ 2 - 01

VÝKAZ ZISKOV A STRÁT

k 31.12.2024

(v eurách zaokrúhlene na dve desatinné miesta)

	mesiac	rok		mesiac	rok
Za bežné účtovné obdobie od	01	2024	**do**	12	2024
Za bezprostredne predchádzajúce účtovné obdobie od	01	2023	**do**	12	2023

Účtovná závierka

X **- riadna**

☐ **- mimoriadna**

Daňové identifikačné číslo

IČO 00166537 **SID**

Kód SK NACE

Názov účtovnej jednotky

Fyzikálny ústav SAV, v. v. i.

Sídlo účtovnej jednotky

Ulica a číslo

Dúbravská cesta 9

PSČ 84511 Názov obce Bratislava

Smerové číslo telefónu 002 Číslo telefónu 5941051717 Číslo faxu 547760855

E-mailová adresa secretary.fusav@savba.sk

Zostavená dňa	Podpisový záznam osoby zodpovednej za vedenie účtovníctva:	Podpisový záznam osoby zodpovednej za zostavenie účtovnej závierky:	Podpisový záznam štatutárneho orgánu alebo člena štatutárneho orgánu účtovnej jednotky:
Autor: Slezáková 31.3.2025			

Číslo účtu	Náklady	Číslo riadku	Činnosť			Bezprostredne prechádzajúce účtovné obdobie
			Hlavná nezdaňovaná	Podnikateľská zdaňovaná	Spolu	
a	b		1	2	3	4
501	Spotreba materiálu	1	387 296,33	0,00	387 296,33	283 786,79
502	Spotreba energie	2	117 122,33	0,00	117 122,33	119 540,98
504	Predaný tovar	3	0,00	0,00	0,00	0,00
511	Opravy a udržiavanie	4	158 533,51	0,00	158 533,51	115 051,08
512	Cestovné	5	175 648,96	0,00	175 648,96	128 135,65
513	Náklady na reprezentáciu	6	4 867,94	0,00	4 867,94	5 353,46
518	Ostatné služby	7	255 260,94	0,00	255 260,94	249 193,36
521	Mzdové náklady	8	2 536 040,26	0,00	2 536 040,26	2 072 960,79
524	Zákonné sociálne poistenie a zdravotné poistenie	9	869 194,49	0,00	869 194,49	697 875,34
525	Ostatné sociálne poistenie	10	0,00	0,00	0,00	0,00
527	Zákonné sociálne náklady	11	96 722,33	0,00	96 722,33	78 320,54
528	Ostatné sociálne náklady	12	0,00	0,00	0,00	0,00
531	Daň z motorových vozidiel	13	0,00	0,00	0,00	0,00
532	Daň z nehnuteľností	14	25,86	0,00	25,86	25,86
538	Ostatné dane a poplatky	15	3 590,11	0,00	3 590,11	3 874,38
541	Zmluvné pokuty a penále	16	0,00	0,00	0,00	0,00
542	Ostatné pokuty a penále	17	3 139,69	0,00	3 139,69	5 692,00
543	Odpísanie pohľadávky	18	0,00	0,00	0,00	0,00
544	Úroky	19	0,00	0,00	0,00	0,00
545	Kurzové straty	20	65,01	0,00	65,01	134,73
546	Dary	21	0,00	0,00	0,00	0,00
547	Osobitné náklady	22	0,00	0,00	0,00	0,00
548	Manká a škody	23	0,00	0,00	0,00	0,00
549	Iné ostatné náklady	24	418 926,75	0,00	418 926,75	284 561,77
551	Odpisy dlhodobého nehmotného majetku a dlhodobého	25	619 114,68	0,00	619 114,68	654 544,19
552	Zostatková cena predaného dlhodobého nehmotného	26	0,00	0,00	0,00	0,00
553	Predané cenné papiere	27	0,00	0,00	0,00	0,00
554	Predaný materiál	28	0,00	0,00	0,00	0,00
555	Náklady na krátkodobý finančný majetok	29	0,00	0,00	0,00	0,00
556	Tvorba fondov	30	0,00	0,00	0,00	0,00
557	Náklady na precenenie cenných papierov	31	0,00	0,00	0,00	0,00
558	Tvorba a zúčtovanie opravných položiek	32	0,00	0,00	0,00	0,00
561	Poskytnuté príspevky organizačným zložkám	33	0,00	0,00	0,00	0,00
562	Poskytnuté príspevky iným účtovným jednotkám	34	0,00	0,00	0,00	0,00
563	Poskytnuté príspevky fyzickým osobám	35	0,00	0,00	0,00	0,00
565	Poskytnuté príspevky z podielu zaplatenej dane	36	0,00	0,00	0,00	0,00
567	Poskytnuté príspevky z verejnej zbierky	37	0,00	0,00	0,00	0,00
	Účtová trieda 5 spolu r. 01 až r. 37	38	5 645 549,19	0,00	5 645 549,19	4 699 050,92

Číslo účtu	Výnosy	Číslo riadku	Činnosť			Bezprostredne prechádzajúce účtovné obdobie
			Hlavná nezdaňovaná	Podnikateľská zdaňovaná	Spolu	
a	b		1	2	3	4
601	Tržby za vlastné výrobky	39	0,00	0,00	0,00	0,00
602	Tržby z predaja služieb	40	61 223,34	0,00	61 223,34	90 562,00
604	Tržby za predaný tovar	41	0,00	0,00	0,00	0,00
611	Zmena stavu zásob nedokončenej výroby	42	0,00	0,00	0,00	0,00
612	Zmena stavu zásob polotovarov	43	0,00	0,00	0,00	0,00
613	Zmena stavu zásob výrobkov	44	0,00	0,00	0,00	0,00
614	Zmena stavu zásob zvierat	45	0,00	0,00	0,00	0,00
621	Aktivácia materiálu a tovaru	46	0,00	0,00	0,00	0,00
622	Aktivácia vnútroorganizačných služieb	47	0,00	0,00	0,00	0,00
623	Aktivácia dlhodobého nehmotného majetku	48	0,00	0,00	0,00	0,00
624	Aktivácia dlhodobého hmotného majetku	49	0,00	0,00	0,00	0,00
641	Zmluvné pokuty a penále	50	0,00	0,00	0,00	0,00
642	Ostatné pokuty a penále	51	0,00	0,00	0,00	0,00
643	Platby za odpísané pohľadávky	52	0,00	0,00	0,00	0,00
644	Úroky	53	0,00	0,00	0,00	0,00
645	Kurzové zisky	54	5,42	0,00	5,42	43,29
646	Prijaté dary	55	0,00	0,00	0,00	0,00
647	Osobitné výnosy	56	0,00	0,00	0,00	0,00
648	Zákonné poplatky	57	0,00	0,00	0,00	0,00
649	Iné ostatné výnosy	58	0,00	0,00	0,00	0,00
651	Tržby z predaja dlhodobého nehmotného majetku a	59	467 804,20	0,00	467 804,20	0,00
652	Výnosy z dlhodobého finančného majetku	60	0,00	0,00	0,00	0,00
653	Tržby z predaja cenných papierov a podielov	61	0,00	0,00	0,00	0,00
654	Tržby z predaja materiálu	62	0,00	0,00	0,00	0,00
655	Výnosy z krátkodobého finančného majetku	63	0,00	0,00	0,00	0,00
656	Výnosy z použitia fondu	64	0,00	0,00	0,00	0,00
657	Výnosy z precenenia cenných papierov	65	0,00	0,00	0,00	0,00
658	Výnosy z nájmu majetku	66	10 719,18	0,00	10 719,18	15 598,83
661	Prijaté príspevky od organizačných zložiek	67	0,00	0,00	0,00	0,00
662	Prijaté príspevky od iných organizácií	68	433 560,52	0,00	433 560,52	183 527,88
663	Prijaté príspevky od fyzických osôb	69	0,00	0,00	0,00	0,00
664	Prijaté členské príspevky	70	0,00	0,00	0,00	0,00
665	Príspevky z podielu zaplatenej dane	71	0,00	0,00	0,00	0,00
667	Prijaté príspevky z verejných zbierok	72	0,00	0,00	0,00	0,00
691	Dotácie	73	5 130 351,38	0,00	5 130 351,38	4 409 580,21
	Účtová trieda 6 spolu r. 39 až r. 73	74	6 103 664,04	0,00	6 103 664,04	4 699 312,21
	Výsledok hospodárenia pred zdanením r. 74 - r. 38	75	458 114,85	0,00	458 114,85	261,29
591	Daň z príjmov	76	0,00	494,99	494,99	164,99
595	Dodatočné odvody dane z príjmov	77	0,00	0,00	0,00	0,00
	Výsledok hospodárenia po zdanení (r. 75 - (r. 76 + r. 77))	78	458 114,85	- 494,99	457 619,86	96,30

POZNÁMKY

Poznámky (Úč NUJ 3 – 01)

IČO	0	0	0	0	0	0	1	6	6	5	3	7

Čl. I

Všeobecné informácie

(1) Meno a priezvisko fyzickej osoby alebo názov právnickej osoby, ktorá je zakladateľom alebo zriaďovateľom účtovnej jednotky, dátum založenia alebo zriadenia účtovnej jednotky.

Názov účtovnej jednotky: Fyzikálny ústav Slovenskej akadémie vied, v.v.i.

Sídlo účtovnej jednotky: Dúbravská cesta 9, 845 11 Bratislava

IČO: 00166537

Dátum zriadenia: 01. 10. 1955

Vývoj zriadenia: Prvé pracovisko SAV zamerané na fyzikálny výskum bol Kabinet fyziky SAV, ktorý bol zriadený rozhodnutím Predsedníctva SAV zo dňa 30.5.1955. Samostatné vedecké pracovisko - Fyzikálny ústav Slovenskej akadémie vied zriadilo Predsedníctvo SAV svojím uznesením č. 1 zo dňa 5.11.1962 s účinnosťou od 1.1.1963. Príspevkovou organizáciou je ústav od 1.1.1997 - schválené Uznesením Predsedníctva Slovenskej akadémie vied č. 451 zo dňa 31.10.1996.

Na základe § 21aa ods. 1 zákona o akadémii v znení zákona č. 347/2021 Z. z. organizácie Slovenskej akadémie vied menia 01.01.2022 právnu formu na verejné výskumné inštitúcie. Na základe § 21aa ods. 1 zákona o akadémii a na základe tejto zakladacej listiny sa právna forma Fyzikálneho ústavu Slovenskej akadémie vied mení zo štátnej príspevkovej organizácie na verejnú výskumnú inštitúciu.

Názov zriaďovateľa: Slovenská akadémia vied

Sídlo zriaďovateľa: Štefánikova 49, 814 38 Bratislava

Účtovná jednotka je súčasťou konsolidovaného celku kapitoly Slovenská akadémia vied

(2) Informácie o členoch štatutárnych orgánov, dozorných orgánov a iných orgánov účtovnej jednotky; uvádzajú sa mená a priezviská členov štatutárnych orgánov, dozorných orgánov a iných orgánov účtovnej jednotky.

VEDENIE ÚSTAVU

Riaditeľ: doc. Mgr. Mário Ziman, PhD.

Zástupca riaditeľa: Mgr. Andrej Herzáň, PhD.

Vedecký tajomník: Mgr. Erik Bartoš, PhD.

SPRÁVNA RADA

Členovia: Mgr. Andrej Herzáň, PhD.

Ing. Matej Jergel, DrSc.

Dr. Rer. Nat. Ing. Mgr. Andrej Liptaj, PhD.

Ing. Peter Švec, DrSc.

doc. Mgr. Mário Ziman, PhD.

DOZORNÁ RADA

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

Členovia: Ing. Romana Jurkiewiczová

prof. Ing. Vladimír Nečas, PhD.

VEDECKÁ RADA

Predseda: Mgr. Erik Bartoš, PhD.

Podpredsedkyňa: RNDr. Naďa Mrkývková, PhD.

Členovia: Ing. Irena Gejdoš Janotová, PhD.

Mgr. Martin Venhart, PhD.

Externí členovia: Ing. Marián Deanko, PhD. (Vacuumschmelze, s. r. o.)

Mgr. Martin Lištjak, PhD. (VÚJE)

doc. RNDr. Jozef Strečka, PhD. (UPJŠ)

MEDZINÁRODNÝ PORADNÝ ZBOR

University Regensburg, Germany	prof. Dr. Jaroslav Fabian
University of Leoben, Austria	prof. Dr. Jürgen Eckert
Inst. of Nuclear Physics, Cracow, Poland	prof. dr hab. Robert Kamiński

ZÁSTUPCOVIA ÚSTAVU

Členka Snemu SAV:	RNDr. Katarína Gmucová, CSc.	predsedníčka 1. komory
Člen Predsedníctva SAV:	Mgr. Martin Venhart, PhD.	1. oddelenie vied

(3) Opis činnosti, na účel ktorej bola účtovná jednotka zriadená a opis druhu podnikateľskej činnosti, ak ju účtovná jednotka vykonáva.

Prevažujúcou hlavnou činnosťou organizácie je uskutočňovanie výskumu v odboroch vedy a techniky: Fyzikálne vedy (010300) a Fyzikálne inžinierstvo (020404).

Ďalšími hlavnými činnosťami organizácie sú:

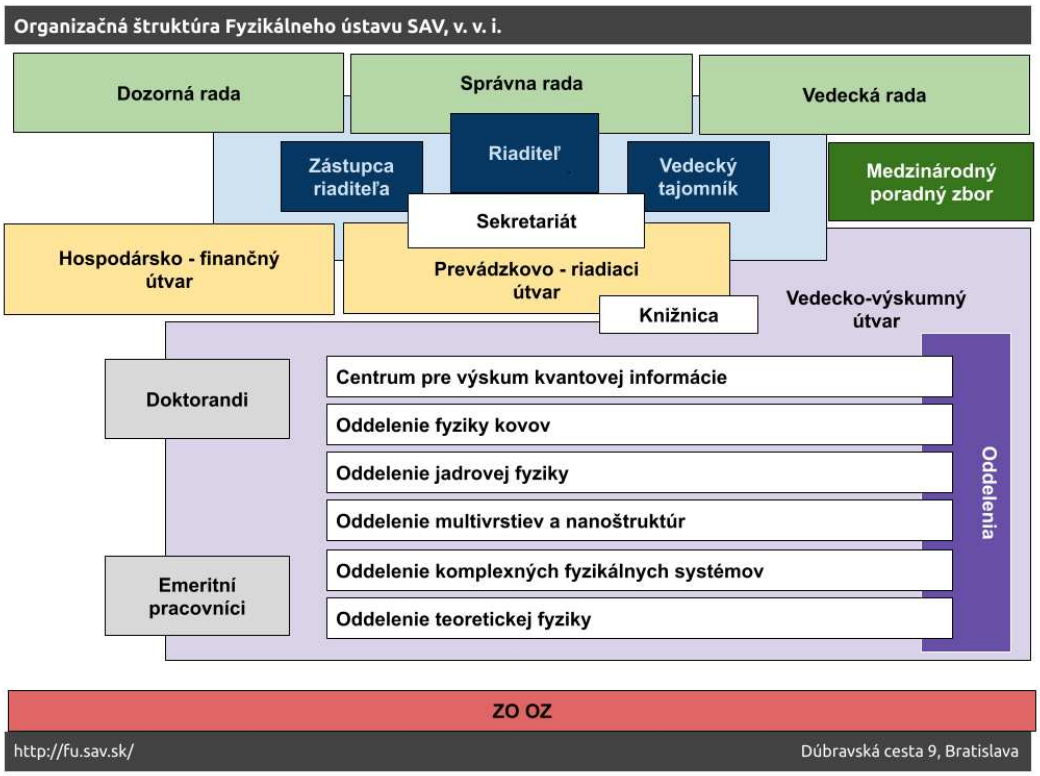
- zabezpečovanie a správa infraštruktúry výskumu a vývoja, ku ktorej má organizácia vlastnícke právo alebo iné právo; rozsah infraštruktúry výskumu a vývoja, práva ku ktorej organizácia nadobudla zmenou právnej formy organizácie na verejnú výskumnú inštitúciu dňa 01.01.2022 a vyplýva to z protokolu medzi Slovenskou akadémiou vied a organizáciou podľa § 21aa ods. 11 zákona o akadémii,
- získavanie, spracúvanie a šírenie informácií z oblasti vedy a techniky a poznatkov z vlastného výskumu a vývoja organizácie, a to v odboroch Fyzikálne vedy (010300) a Fyzikálne inžinierstvo (020404).,

- podieľanie sa v spolupráci s vysokou školou na uskutočňovaní študijných programov tretieho stupňa vysokoškolského štúdia, a to v študijných odboroch fyzika (13), elektrotechnika (9), chémia (17) a informatika (18),
- spolupráca v oblasti vedy a techniky s vysokými školami, ostatnými právnickými osobami uskutočňujúcimi výskum a vývoj a s podnikateľmi, a to v odboroch Fyzikálne vedy (010300) a Fyzikálne inžinierstvo (020404).

(4) **Priemerný prepočítaný počet zamestnancov, a z toho počet vedúcich zamestnancov účtovnej jednotky za účtovné obdobie, za ktoré sa zostavuje účtovná závierka (ďalej len „bežné účtovné obdobie“). Počet dobrovoľníkov vyslaných účtovnou jednotkou a počet dobrovoľníkov, ktorí vykonávali dobrovoľnícku činnosť pre účtovnú jednotku počas bežného účtovného obdobia.**

	Bežné účtovné obdobie	Počet hodín vykonávania dobrovoľníckej činnosti
Priemerný prepočítaný počet zamestnancov	78,56	x
z toho počet vedúcich zamestnancov	7	x
Počet dobrovoľníkov vyslaných účtovnou jednotkou		
Počet dobrovoľníkov, ktorí vykonávali dobrovoľnícku činnosť pre účtovnú jednotku počas účtovného obdobia		

(5) **Organizačná štruktúra účtovnej jednotky.**



(6)**Informácia o organizáciách v zriaďovateľskej pôsobnosti účtovnej jednotky.**

Účtovná jednotka nemá žiadnu organizáciu v zriaďovateľskej pôsobnosti.

Čl. II

Informácie o účtovných zásadách a účtovných metódach

(1) **Informácia, či je účtovná závierka zostavená za splnenia predpokladu, že účtovná jednotka bude nepretržite pokračovať vo svojej činnosti.**

Fyzikálny ústav Slovenskej akadémie vied, v.v.i. účtuje podľa Opatrenia MF SR z 14. novembra 2007 č. MF/24342/2007-74, ktorým sa ustanovujú podrobnosti o postupoch účtovania a účtovej osnove pre účtovné jednotky, ktoré nie sú založené alebo zriadené na účel podnikania v znení neskorších predpisov. Účtovníctvo sa vedie v peňažných jednotkách euro.

Účtovná závierka bola zostavená za predpokladu nepretržitého pokračovania činnosti.

(2) **Zmeny účtovných zásad a zmeny účtovných metód s uvedením dôvodu týchto zmien a vyčíslením ich vplyvu na finančnú hodnotu majetku, záväzkov, základného imania a výsledku hospodárenia účtovnej jednotky.**

Zmeny účtovných metód a zásad nastali z dôvodu usmernení MF SR vydaných počas roka 2024,ktoré správca kapitoly SAV premietol do Usmernení pre všetky VVI, z dôvodu jednotného vykazovania a dodržiavania zásad opatrnosti vzhľadom ku konsolidovanej účtovnej závierke, ktorú správca kapitoly zostavuje.

Usmernenie č. MF/006583/2024-74 zo dňa 23.1.2024

- V zmysle tohto usmernenia verejné výskumné inštitúcie, ktoré majú uzavreté s poskytovateľom dotácií viacročné zmluvy o pridelení dotácie účtujú o pohľadávke voči poskytovateľovi dotácie na ročnej báze. Všetky zaúčtované pohľadávky o pridelení dotácií „ prísľuby“ na nasledujúce roky boli v roku 2024 odúčtované, čím sa znížila celkové hodnota majetku organizácie.
- Pri dodržaní akruálneho princípu v rámci účtovného obdobia a vykázania nákladov a výnosov z titulu dotácie a jej použitia v rámci príslušného účtovného obdobia, bude VVI účtovať predpis dotácie na strane MD 346 a na strane Dal účtu 384. Následne v priebehu účtovného obdobia v časovej a vecnej súvislosti s účtovaním nákladov bude zúčtovávať účet 384 do výnosov na účte 691 – Dotácie.

Usmernenie č. MF/008411/2024-74 zo dňa 08.3.2024

- V zmysle usmernenia č. MF/24342/2007-74“ verejné výskumné inštitúcie, ktoré účtujú o refundačných dotáciách, ktoré boli financované z vlastných zdrojov v minulých účtovných obdobiach, ak sa takáto refundačná dotácia nepoužije v období, v ktorom bola prijatá, VVI je v súlade s §45 ods. 8 opatrenia povinná ju časovo rozlíšiť a preúčtovať prostredníctvom účtu 384 – Výnosy budúcich období.
- Nakoľko refundácie nie sú vlastným zdrojom, ale transferom, ktorý je VVI pri jeho následnom používaní povinná uvádzať na mesačnej báze vo výkazoch FIN-12 a súčasne zahrnúť do tabuľky č. 191 odsúhlasovacieho formulára konsolidačného balíka, bude VVI účtovať tieto dotácie na účte 384 – Výnosy budúcich období a následne v časovej a vecnej súvislosti s účtovaním nákladov ich bude zúčtovávať na účte 691 – Dotácie.

(3) **Spôsoby ocenenia jednotlivých položiek majetku a záväzkov.**

1. Dlhodobý nehmotný a hmotný majetok nakupovaný sa oceňuje obstarávacou cenou. Obstarávacia cena zahŕňa cenu, za ktorú sa majetok obstaral a vedľajšie náklady súvisiace s jeho obstaraním (clo, preprava, montáž, poistné a pod.).
2. Dlhodobý majetok nadobudnutý bezodplatným prevodom pri splynutí, zlúčení, rozdelení alebo pri prevode správy sa oceňuje cenou, v ktorej sa doteraz viedol v účtovníctve. Ak cenu nie je možné zistiť, oceňuje sa reálnou cenou. Dlhodobý majetok obstaraný iným spôsobom (napr. bezodplatne nadobudnutý majetok, novozistený majetok pri inventarizácii) sa oceňuje reálnou cenou. Reálnou hodnotou sa rozumie cena, ktorá sa stanoví kvalifikovaným odhadom, ktorý vychádza spravidla zo súčasnej hodnoty budúcich peňažných príjmov z majetku a budúcich peňažných výdavkov na majetok; diskontná sadzba sa určí ako vnútorná miera návratnosti požadovaná investormi pre daný druh majetku ku dňu jeho ocenenia, za ktorú by sa majetok obstaral v čase, keď sa o ňom účtuje.
3. Pohľadávky pri ich vzniku sa oceňujú menovitou hodnotou.
4. Finančné prostriedky a ceniny sa oceňujú ich menovitou hodnotou.
5. Príjmy budúcich období a náklady budúcich období sa vykazujú vo výške, ktorá je potrebná na dodržanie zásady vecnej a časovej súvislosti s účtovným obdobím.
6. Záväzky pri ich vzniku sa oceňujú ich menovitou hodnotou.
7. Rezervy sú záväzky s neistým časovým vymedzením alebo výškou, tvoria sa na základe opatrnosti a oceňujú sa v očakávanej výške záväzku v sume dostatočnej na jeho splnenie.
8. Výdavky budúcich období a výnosy budúcich období sa vykazujú vo výške, ktorá je potrebná na dodržanie zásady vecnej a časovej súvislosti s účtovným obdobím.
9. Opravné položky k pohľadávkam sa tvoria na základe zásady opatrnosti, vyjadrujú prechodné zníženie ich hodnoty.
10. Účtovná jednotka nie je platiteľom dane z pridanej hodnoty. V prípadoch, keď dodávatelia sú platiteľmi DPH, fakturovaná DPH je súčasťou ocenenia majetku a nákladov. Z dôvodu registrácie ústavu ako platiteľa DPH z titulu nadobúdateľa tovaru v tuzemsku z iného členského štátu EÚ (§ 7 Zák. 222/2004 Z. z. o dani z pridanej hodnoty) je ústav povinný z týchto dodávok odviesť DPH. Táto daň z pridanej hodnoty je súčasťou ocenenia majetku a nákladov.
11. Prepočet údajov v cudzích menách: Majetok a záväzky vyjadrené v cudzej mene sa prepočítavajú na menu euro referenčným výmenným kurzom určeným a vyhláseným Európskou centrálnou bankou v deň predchádzajúci dňu uskutočnenia účtovného prípadu resp. v deň, ku ktorému sa zostavuje účtovná závierka. Na ocenenie prírastku cudzej meny nakúpenej za menu euro sa použije kurz, za ktorý bola táto cudzia mena nakúpená, alebo referenčný kurz v deň uzavretia obchodu. Na ocenenie prírastku cudzej meny v mene euro nakúpenej za inú cudziu menu sa použije hodnota inej cudzej meny v eurách alebo sa na ocenenie prírastku cudzej meny v eurách použije referenčný kurz v deň uzavretia obchodu.

(4) **Spôsob zostavenia odpisového plánu pre jednotlivé druhy dlhodobého hmotného majetku a dlhodobého nehmotného majetku, pričom sa uvádza doba odpisovania, použité sadzby odpisov a odpisové metódy pri určení odpisov.**

Odpisy dlhodobého majetku boli stanovené v súlade so zákonom o účtovníctve. Pri stanovení doby odpisovania sa vychádzalo z predpokladanej doby jeho používania a predpokladaného priebehu jeho opotrebenia. Odpisovať sa začína prvým dňom mesiaca, v ktorom bol dlhodobý majetok zaradený do používania. Metóda odpisovania sa používa lineárna.

Druh dlhodobého majetku	Doba odpisovania	Sadzba odpisov	Odpisová metóda
Dlhodobý nehmotný majetok	4 a 10	25%, 10%	rovnomerná
Dlhodobý hmotný majetok			
- budovy, inžinierske stavby	50	2%	rovnomerná
- stroje, prístroje a zariadenia	4, 6 ,10, 12	25%, 16.66%, 10%, 8.33%	rovnomerná

Drobný nehmotný majetok je taký majetok, ktorého obstarávacia cena je vyššia ako 100 EUR a nižšia ako 2 400 EUR a doba použiteľnosti je dlhšia ako 1 rok. Takýto majetok účtovná jednotka účtuje do nákladov na účet 518 – Ostatné služby.

Drobný hmotný majetok tvoria samostatné hnuteľné veci, ktorých obstarávacia cena je vyššia ako 100 EUR a nižšia ako 1 700 EUR a ktorých doba použiteľnosti je dlhšia ako 1 rok. Takýto majetok účtovná jednotka účtuje do nákladov na účet 501 – Spotreba materiálu.

Drobný hmotný majetok a drobný nehmotný majetok je evidovaný v operatívnej evidencii v programe Softip Profit v module DIM.

(5) **Zásady pre zohľadnenie zníženia hodnoty majetku. Uvádza sa, či účtovná jednotka uplatňuje opravné položky a rezervy.**

Pohľadávka po lehote splatnosti je pohľadávka voči spoločnosti Tesla Piešťany z r. 1996. Táto spoločnosť išla do konkurzu a organizácia bola prihlásená v konkurznej veci ako veriteľ 3.triedy. V roku 2008 Krajský súd Bratislava rozhodol v konkurznej veci, že pohľadávky 3. triedy nebudú uspokojené z dôvodu nedostatku finančných prostriedkov. V roku 2010 bola spoločnosť Tesla Piešťany vymazaná z obchodného registra. Táto pohľadávka je už nevymožiteľná. Účtovná jednotka má vytvorenú opravnú položku v plnej výške 95 815,61 EUR na účte 391.

(6) Informácie o účtovaní opráv významných chýb minulých účtovných období v bežnom účtovnom období s uvedením vplyvu na výsledok hospodárenia minulých rokov; súčasne sa môže uviesť aj informácia o účtovaní opráv nevýznamných chýb minulých účtovných období v bežnom účtovnom období s uvedením vplyvu na výsledok hospodárenia bežného účtovného obdobia

Neevidujeme významné opravy chýb minulých účtovných období.

Čl. III

Informácie, ktoré dopĺňajú a vysvetľujú údaje v súvahe

(1) Významné sumy prírastkov a úbytkov dlhodobého nehmotného majetku a dlhodobého hmotného majetku.

Významné prírastky

Samostatné hnuteľné veci a súbory 111 (022)	210 645,11
Samostatné hnuteľné veci a súbory mimo VS (022)	964 779,70
PO (022)	957 970,70

Významné úbytky

Organizácia v roku 2024 nevyraďovala žiadny majetok.

(2) **Prehľad dlhodobého majetku, na ktorý je zriadené záložné právo a prehľad dlhodobého majetku, pri ktorom má účtovná jednotka obmedzené právo s ním nakladať.**

Účtovná jednotka nemá žiaden dlhodobý majetok zaťažený vecným bremenom.

(3) **Údaje o štruktúre dlhodobého finančného majetku za bežné účtovné obdobie a jeho umiestnenie v členení podľa položiek súvahy v riadkoch 022 a 023.**

Názov účtovnej jednotky	Podiel na základnom imaní (v %)	Podiel účtovnej jednotky na hlasovacích právach (v %)
	0,00	0,00

(4) **Údaje o štruktúre dlhodobého finančného majetku a krátkodobého finančného majetku v členení podľa položiek súvahy v riadkoch 024, 026 a 055.**

Opis druhu finančného majetku	Stav na bezprostredne konci predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
	0,00	0,00

(5) **Údaje o štruktúre dlhodobých pôžičiek.**

Poskytnuté dlhodobé pôžičky	Stav na bezprostredne konci predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
	0,00	0,00

(6) **Prehľad o vývoji významných súm opravných položiek podľa jednotlivých druhov majetku.**

Druh majetku, ku ktorému sa tvorí opravná položka	Stav opravnej položky na konci bezprostredne predchádzajúceho účtovného obdobia	Tvorba opravnej položky (zvýšenie)	Zúčtovanie opravnej položky (použitie, zrušenie)	Stav opravnej položky na konci bežného účtovného obdobia
Ostatné pohľadávky-krátkodobé tuzemsko	95 815,61			95 815,61

(7) **Opis významných súm pohľadávok v nadväznosti na položky súvahy, v členení na pohľadávky za hlavnú nezdaňovanú činnosť a zdaňovanú činnosť za bežné účtovné obdobie.**

Druh a opis významných položiek pohľadávok	Hlavná nezdaňovaná činnosť	Zdaňovaná činnosť
Ostatné pohľadávky (315 / 391)	95 815,61	
Pohľadávky z obchodného styku	8123,28	

(8) **Prehľad pohľadávok do uplynutia lehoty splatnosti a po uplynutí lehoty splatnosti.**

Pohľadávky	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
- do uplynutia lehoty splatnosti	0,00	8 123,28
- po uplynutí lehoty splatnosti	95 815,61	95 815,61
Spolu	95 815,61	103 938,89

(9) **Prehľad o významných položkách časového rozlíšenia nákladov budúcich období a príjmov budúcich období.**

Časové rozlíšenie tvoria náklady budúcich období, ktoré sú vykázané vo výške, ktorá je potrebná na dodržanie zásady vecnej a časovej súvislosti s účtovným obdobím. Konečný zostatok na účte 381 vo výške 4 117,79 EUR tvoria predovšetkým časovo ohraničené licencie, poistenie majetku a nájomné za plynové fľaše.

(10) **Opis a výška zmien vlastného imania v priebehu bežného účtovného obdobia podľa položiek súvahy.**

	Stav na začiatku bežného účtovného obdobia	Prírastky (+)	Úbytky (-)	Presuny (+, -)	Stav na konci bežného účtovného obdobia
Vlastné imanie					
Základné imanie	77 450,04				77 450,04
z toho:					
- nadačné imanie v nadácii					
- vklady zakladateľov					
- prioritný majetok					
Fondy tvorené podľa osobitných predpisov	0,00				0,00
Fond reprodukcie	0,00				0,00
Oceňovacie rozdiely z precenenia kapitálových účastín	0,00				0,00
Fondy tvorené zo zisku					
Rezervný fond	530,00			+96.3	626,30
Fondy tvorené zo zisku	0,00				0,00
Ostatné fondy	0,00				0,00
Výsledok hospodárenia					
Nevysporiadaný výsledok hospodárenia minulých rokov	401 962,89				401 962,89
Výsledok hospodárenia účtovného obdobia	96,30	+457619.86		-96.3	457 619,86
Spolu	480 039,23				937 659,09

(11) **Opis a vyčíslenie jednotlivých druhov fondov tvorených podľa osobitných predpisov.**

Opis fondov tvorených podľa osobitných predpisov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Prírastky	Úbytky	Stav na konci bežného účtovného obdobia

(12) **Informácia o rozdelení účtovného zisku alebo o vysporiadaní účtovnej straty za bezprostredne predchádzajúce účtovné obdobie.**

Názov položky	Bezprostredne predchádzajúce účtovné obdobie
Účtovný zisk	96,30
Rozdelenie účtovného zisku	
Prídel do základného imania	
Prídel do fondov tvorených podľa osobitných predpisov	
Prídel do fondu reprodukcie	
Prídel do rezervného fondu	530,00
Prídel do fondov tvorených zo zisku	
Prídel do ostatných fondov	
Úhrada straty minulých období	
Prevod do sociálneho fondu	
Prevod do nevysporiadaného výsledku hospodárenia minulých rokov	
Iné	
Účtovná strata	
Vysporiadanie účtovnej straty	
Zo základného imania	
Z rezervného fondu	
Z fondov tvorených zo zisku	
Z ostatných fondov	
Z nerozdeleného zisku minulých rokov	
Prevod do nevysporiadaného výsledku hospodárenia minulých rokov	

Iné	

(13) **Údaje o jednotlivých druhoch rezerv v členení na stav rezerv na konci bezprostredne predchádzajúceho účtovného obdobia a stav rezerv na konci bežného účtovného obdobia, ich tvorbu, použitie alebo zrušenie v priebehu bežného účtovného obdobia.**

Druh rezervy	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Tvorba rezerv	Použitie rezerv	Zrušenie rezerv	Stav na konci bežného účtovného obdobia
Zákonné rezervy spolu					
Ostatné rezervy spolu					
Rezervy spolu					

(14) **Údaje o významných sumách záväzkov v nadväznosti na položky súvahy, v členení na záväzky za hlavnú nezdaňovanú činnosť a zdaňovanú činnosť.**

Druh a opis významných položiek záväzkov	Hlavná nezdaňovaná činnosť	Zdaňovaná činnosť
Záväzky z obchodného styku (321+326) okrem 323	34 215.32	
Ostatné záväzky-záväzky voči spoluriešiteľom (325)	488 602,28	
Záv. z dôvodu fin. vzťahov k ŠR a rozp. ÚS (346+348)	50 325,00	
Daňové záväzky (341 až 345)	153 427,86	

(15) **Prehľad záväzkov do uplynutia lehoty splatnosti a po uplynutí lehoty splatnosti.**

Záväzky	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia	
- do uplynutia lehoty splatnosti	465 702,83	737 801,41	
- po uplynutí lehoty splatnosti	0,00	0,00	
Spolu	465 702,83	737 801,41	

(16) **Prehľad o začiatočnom stave, tvorbe, čerpaní a konečnom zostatku sociálneho fondu v priebehu bežného účtovného obdobia.**

Sociálny fond	Suma
Stav k prvému dňu bežného účtovného obdobia	8 795,26
Tvorba na ťarchu nákladov	23 868,34
Tvorba zo zisku	0,00
Čerpanie	22 782,29
Stav k poslednému dňu bežného účtovného obdobia	9 881,31

(17) **Prehľad bankových úveroch, pôžičkách a návratných finančných výpomociach s uvedením meny.**

Druh cudzieho zdroja	Mena	Výška úroku v %	Splatnosť	Forma zabezpečenia	Suma istiny na konci bežného účtovného obdobia
Krátkodobý bankový úver					
Pôžička					
Návratná finančná výpomoc					
Dlhodobý bankový úver					
Spolu					

(18) **Prehľad o významných položkách časového rozlíšenia výdavkov budúcich období.**

Účtovná jednotka nemá účtovné zápisy na účte 383 – výdavky budúcich období.

(19)**Prehľad výnosov budúcich období v členení podľa jednotlivých druhov a v členení na dlhodobé výnosy budúcich období a krátkodobé výnosy budúcich období.**

Položky výnosov budúcich období - dlhodobé z dôvodu	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
bezodplatne nadobudnutého dlhodobého majetku		
dlhodobého majetku obstaraného z verejných zdrojov	4 317 679,70	4 394 146,41
dlhodobého majetku obstaraného z finančného daru		
dlhodobého majetku obstaraného z podielu zaplatenej dane		
dlhodobého majetku obstaraného zo sponzorského		
nepoužitého sponzorského		
iné		
Spolu	4 317 679,70	4 394 146,41

Položky výnosov budúcich období - krátkodobé z dôvodu	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
dotácie zo štátneho rozpočtu a z prostriedkov Európskej únie	2 824 073,43	2 973 807,29
dotácie z rozpočtu obce a z rozpočtu vyššieho územného celku		
zostatku podielu zaplatenej dane		
nepoužitého sponzorského		
iné		
Spolu	2 824 073,43	2 973 807,29

(20) **Údaje o druhoch majetku a záväzkoch z lízingových zmlúv.**

Druh majetku	Hodnota záväzku	
	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia

Čl. IV

Informácie, ktoré dopĺňajú a vysvetľujú údaje vo výkaze ziskov a strát

(1) **Prehľad tržieb za vlastné výkony a tovar s uvedením ich opisu a vyčíslením hodnoty tržieb podľa jednotlivých hlavných druhov výrobkov, služieb hlavnej nezdaňovanej činnosti a zdaňovanej činnosti účtovnej jednotky za bežné účtovné obdobie.**

Druh a opis tržieb	Hlavná nezdaňovaná činnosť	Zdaňovaná činnosť
Tržby z predaja služieb – konferenčné poplatky, merania	61 223,34	
Tržby z predaného majetku	467 804,20	

(2) **Opis a vyčíslenie hodnoty významných súm v nadväznosti na položky výkazu ziskov a strát v členení na nepeňažné dary, osobitné výnosy, zákonné poplatky a iné ostatné výnosy za bezprostredne predchádzajúce účtovné obdobie a za bežné účtovné obdobie.**

Druh a opis významných súm výnosov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
Výnosy z nájmu majetku	15 598,83	10 719,18

(3) **Prehľad významných súm dotácií zo štátneho rozpočtu, štátnych fondov, z prostriedkov Európskej únie, dotácií z rozpočtu obce a z rozpočtu vyššieho územného celku, ktoré účtovná jednotka prijala v bezprostredne predchádzajúcom účtovnom období a v bežnom účtovnom období.**

Druh a opis významných súm dotácií a grantov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
Dotácie – Výnosy z bežných transferov ŠR	3 059 662,55	3 894 555,91
Dotácie – Výnosy z bež. Transferov ŠR-APVV	321 672,37	302 107,31
Dotácie – Výnosy z bež. Transferov ŠR-Úr.vlády	274 050,14	374 980,21
Dotácie – Výnosy z bež. Transferov ŠR-ŠF	111 256,94	25 891,37
Dotácie – Výnosy z kapitál. Transferov ŠR	477 243,60	490 956,52
Dotácie – Výnosy z bež. Transf. Od subj. VS	4 861,00	14 444,00
Dotácie – Výnosy z kapit. Transf. Od subj. VS	160 833,61	27 416,06
Dotácie – Výnosy z bež. Transferov od sub. mimo VS	183527,88	349 885,51
Dotácie – Výnosy z kapit. Transferov od subj. Mimo VS		83 675,01

(4) **Opis a vyčíslenie hodnoty významných položiek príjmov z reklám, ktoré sú určené na charitatívne účely, a charitatívnej lotérie prijatých v bezprostredne predchádzajúcom účtovnom období a v bežnom účtovnom období.**

Druh a opis významných položiek charitatívnej reklamy a charitatívnej lotérie	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia

(5) **Opis a vyčíslenie hodnoty významných súm v nadväznosti na položky výkazu ziskov a strát v členení na nepeňažné dary, náklady na ostatné služby, osobitné náklady a iné ostatné náklady poskytnuté v bežnom účtovnom období.**

Druh a opis významných položiek nákladov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
Spotreba materiálu – spotrebný materiál a drobný hmotný majetok	283 786,79	387 296,33
Spotreba energie – el. energia, kúrenie, voda	119 540,98	117 122,33
Opravy a udržiavanie	115 051,08	158 533,51

Cestovné – tuzemské, zahraničné	128 135,65	175 648,96
Ostatné služby – iné služby, licencie a licenčné poplatky, drobný nehmotný majetok, právne a ekonomické poradenstvo, školenia, kurzy, semináre, štúdie, expertízy posudky	249 193,36	255 260,94
Mzdové náklady	2 072 960,79	2 536 040,26
Zákonné sociálne poistenie a zdravotné poistenie	697 875,34	869 194,49
Zákonné sociálne náklady – tvorba SF, rekreačné poukazy, príplatok do DDP, zdrav. starostlivosť o pracovníkov, lekárske prehliadky, príspevok na stravu, odstupné, odchodné, PN 10 dní	78 320,54	96 722,33
Iné ostatné náklady – členské, bankové výdavky, vedecká výchova, náhrada cestovných výdavkov iným osobám ako zamestnancom, poistenie dopravných prostriedkov, ostatné poistenie, iné	284 561,77	418 926,75
Odpisy dlhodobého nehmotného majetku a dlhodobého hmotného majetku	654 544,19	619 114,68

(6) **Prehľad o účele a výške použitia zostatku prijatého podielu zaplatenej dane v minulých účtovných obdobiach a prijatého podielu zaplatenej dane v bežnom účtovnom období.**

Účel použitia prijatého podielu zaplatenej dane	Použitá suma zostatku z predchádzajúceho účtovného obdobia	Použitá suma z bežného účtovného obdobia
neúčtujeme		
Zostatok podielu zaplatenej dane		

Čl. V

Opis údajov na podsúvahových účtoch

Významné položky zásob prijatých na komisionálny predaj, prenajatého majetku, majetku prijatého do úschovy, odpísané pohľadávky a prípadné ďalšie položky.

Čl. VI

Ďalšie informácie

(1) Opis a hodnota iných aktív, ktorými sa rozumie majetok, ktorý vznikol v dôsledku minulých udalostí a ktorého existencia alebo vlastníctvo závisí od toho, či nastane alebo nenastane jedna alebo viac neistých udalostí v budúcnosti, ktorých vznik nezávisí od účtovnej jednotky; týmito inými aktívami sú napríklad práva zo servisných zmlúv, poistných zmlúv, koncesionárskych zmlúv, licenčných zmlúv, práva z investovania prostriedkov získaných oslobodením od dane z príjmov.

(2) Opis a hodnota iných pasív vyplývajúcich zo súdnych rozhodnutí, z poskytnutých záruk, zo všeobecne záväzných právnych predpisov, z ručenia podľa jednotlivých druhov ručenia; takýmito inými pasívami sú:

a) povinnosť, ktorá vznikla ako dôsledok minulej udalosti a ktorej existencia závisí od toho, či nastane alebo nenastane jedna alebo viac neistých udalostí v budúcnosti, ktorých vznik nezávisí od účtovnej jednotky, alebo

b) povinnosť, ktorá vznikla ako dôsledok minulej udalosti, ale ktorá sa nevykazuje v súvahe, pretože nie je pravdepodobné, že na splnenie tejto povinnosti bude potrebný úbytok ekonomických úžitkov, alebo výška tejto povinnosti sa nedá spoľahlivo oceniť.

(3) Opis významných položiek ostatných finančných povinností, ktoré sa nesledujú v účtovníctve a neuvádzajú sa v súvahe; pri každej položke sa uvádza jej opis, výška a údaj, či sa týka spriaznených osôb, a to

a) povinnosť z devízových termínovaných obchodov a iných finančných derivátov,

b) povinnosť z opčných obchodov,

c) zákonná povinnosť alebo zmluvná povinnosť odobrať určité produkty alebo služby, napríklad z dodávateľských zmlúv alebo odberateľských zmlúv,

d) povinnosť z lízingových zmlúv, nájomných zmlúv, servisných zmlúv, poistných zmlúv, koncesionárskych zmlúv, licenčných zmlúv a podobných zmlúv,

e) iné povinnosti.

(4) Prehľad nehnuteľných kultúrnych pamiatok, ktoré sú v správe alebo vo vlastníctve účtovnej jednotky, a to názov, adresa a číslo kultúrnej pamiatky v Ústrednom zozname pamiatkového fondu.

(5) Informácie o významných skutočnostiach, ktoré nastali medzi dňom, ku ktorému sa zostavuje účtovná závierka a dňom jej zostavenia:

- Fyzikálny ústav SAV, v. v. i. v roku 2024 nesprávne účtoval predaj dlhodobého majetku na základe kúpnej zmluvy uzavretej v roku 2024. Kúpna cena bola určená vo výške **935 608,33 Eur a pozostávala z dvoch splátok.** Prvá splátka kúpnej ceny bola pripísaná na základe vystavenej faktúry v prospech bankového účtu **v decembri 2024** vo výške **467 804,20 EUR**. Avšak k reálnemu dodaniu hnuteľnej veci a k doplateniu druhej splátky došlo **v máji 2025.** Naša účtovná jednotka nesprávne vyhodnotila a zaúčtovala prvú splátku na základe vystavenej faktúry v sume 467 804,20 EUR na účet 651 „Tržby z predaja dlhodobého majetku“. Prijatá suma v decembri 2024 sa mala správne účtovať na ťarchu účtu **324 „Prijaté preddavky“. Oprava uvedených skutočností sa uskutoční v účtovnom období 06/2025. Následne sa za rok 2025 uvedie celá suma 935 608,33 EUR v zdaňovanej činnosti a vyčísli sa k nej príslušná sadzba dane podľa platných predpisov pre rok 2025.**

Fyzikálny ústav Slovenskej akadémie vied, verejná výskumná inštitúcia

SPRÁVA NEZÁVISLÉHO AUDÍTORA

Štatutárnemu orgánu a dozornej rade Fyzikálneho ústavu Slovenskej akadémie vied, verejnej výskumnej inštitúcie:

SPRÁVA Z AUDITU ÚČTOVNEJ ZÁVIERKY

Podmienený názor

Uskutočnili sme audit účtovnej závierky Fyzikálneho ústavu Slovenskej akadémie vied, verejnej výskumnej inštitúcie (ďalej len „Inštitúcia"), ktorá zahŕňa súvahu k 31. decembru 2024, výkaz ziskov a strát za rok, ktorý sa skončil k uvedenému dátumu, a poznámky, ktoré obsahujú súhrn významných účtovných zásad a účtovných metód.

Podľa nášho názoru, okrem vplyvu skutočnosti opísanej v odseku Základ pre podmienený názor, účtovná závierka poskytuje pravdivý a verný obraz finančnej situácie Inštitúcie k 31. decembru 2024 a výsledku jej hospodárenia za rok, ktorý sa skončil k uvedenému dátumu, v súlade so zákonom č. 431/2002 Z. z. o účtovníctve v znení neskorších predpisov (ďalej len „zákon o účtovníctve").

Základ pre podmienený názor

Inštitúcia vykazuje vo výkaze ziskov a strát na riadku 59 Tržby z predaja dlhodobého hmotného majetku vo výške 467 804 €. Inštitúcia vykázala uvedené tržby v roku 2024 vo výkaze ziskov a strát, čo nie je v súlade so zákonom o účtovníctve, keďže sa jedná o prijatie zmluvnej zálohy za položku dlhodobého hmotného majetku, kde podmienky na vykázanie tržby vo výkaze ziskov a strát boli splnené až v roku 2025. Ak by bola uvedená zmluvná záloha vykázaná správne, znížil by sa výsledok hospodárenia po zdanení ako aj vlastné imanie o 467 804 € a zároveň by záväzky z obchodného styku boli vyššie o prijaté preddavky vo výške 467 804 €.

Audit sme uskutočnili v súlade s Medzinárodnými audítorskými štandardmi. Naša zodpovednosť podľa týchto štandardov sa bližšie uvádza v odseku *Zodpovednosť audítora za audit účtovnej závierky*. Od Inštitúcie sme nezávislí podľa ustanovení zákona č. 423/2015 Z. z. o štatutárnom audite (ďalej len „zákon o štatutárnom audite") a o zmene a doplnení zákona č. 431/2002 Z. z. o účtovníctve v znení neskorších predpisov týkajúcich sa etiky vrátane Etického kódexu audítora, ktoré sú relevantné pre náš audit účtovnej závierky, a splnili sme aj ostatné požiadavky týchto ustanovení týkajúcich sa etiky. Sme presvedčení, že získané audítorské dôkazy poskytujú dostatočný a vhodný základ pre náš podmienený názor.

Iná skutočnosť

Účtovná závierka Fyzikálneho ústavu Slovenskej akadémie vied, verejnej výskumnej inštitúcie za rok končiaci sa 31. decembra 2023 nebola auditovaná. Vykonali sme špecifické audítorské postupy s cieľom získať dôkazy týkajúce sa začiatočných stavov. Náš názor nie je vzhľadom na túto skutočnosť modifikovaný.

Zodpovednosť štatutárneho orgánu a osôb poverených spravovaním za účtovnú závierku

Štatutárny orgán Inštitúcie zodpovedá za zostavenie účtovnej závierky tak, aby poskytovala pravdivý a verný obraz v súlade so zákonom o účtovníctve, a za interné kontroly, ktoré štatutárny orgán Inštitúcie považuje za potrebné pre zostavenie účtovnej závierky, aby neobsahovala významné nesprávnosti, či už v dôsledku podvodu alebo chyby.

Pri zostavovaní účtovnej závierky štatutárny orgán zodpovedá za zhodnotenie schopnosti Inštitúcie nepretržite pokračovať vo svojej činnosti, za opísanie skutočností týkajúcich sa nepretržitého pokračovania v činnosti, ak je to potrebné, a za použitie predpokladu nepretržitého pokračovania v činnosti v účtovníctve, ibaže by mal v úmysle Inštitúciu zlikvidovať alebo ukončiť jej činnosť, alebo by nemal inú reálnu možnosť než tak urobiť.

Osoby poverené spravovaním sú zodpovedné za dohľad nad procesom finančného výkazníctva Inštitúcie.

Zodpovednosť audítora za audit účtovnej závierky

Našou zodpovednosťou je získať primerané uistenie, či účtovná závierka ako celok neobsahuje významné nesprávnosti, či už v dôsledku podvodu alebo chyby, a vydať správu audítora, ktorá obsahuje názor audítora. Primerané uistenie predstavuje vysoký stupeň uistenia, ale nie záruku, že audit vykonaný podľa Medzinárodných audítorských štandardov vždy odhalí prípadnú významnú nesprávnosť. Nesprávnosti môžu vzniknúť v dôsledku podvodu alebo chyby a považujú sa za významné, ak by bolo opodstatnené očakávať, že jednotlivo alebo v súhrne ovplyvnia ekonomické rozhodnutia používateľov, ktoré boli prijaté na základe tejto účtovnej závierky.

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V rámci auditu v súlade s Medzinárodnými audítorskými štandardmi uplatňujeme odborný úsudok a zachovávame profesionálny skepticizmus počas celého auditu. Okrem toho:

- Identifikujeme a posudzujeme riziká významnej nesprávnosti účtovnej závierky, či už v dôsledku podvodu alebo chyby, navrhujeme a vykonávame audítorské postupy reagujúce na tieto riziká a získavame audítorské dôkazy, ktoré sú dostatočné a vhodné na poskytnutie základu pre názor audítora. Riziko neodhalenia významnej nesprávnosti v dôsledku podvodu je vyššie ako riziko v dôsledku chyby, pretože podvod môže zahŕňať tajnú dohodu, falšovanie, úmyselné vynechanie, nepravdivé vyhlásenie alebo obídenie internej kontroly.
- Oboznamujeme sa s internými kontrolami relevantnými pre audit, aby sme mohli navrhnúť audítorské postupy vhodné za daných okolností, ale nie aby sme vyjadrili názor na efektívnosť interných kontrol Inštitúcie.
- Hodnotíme vhodnosť použitých účtovných zásad a účtovných metód, ako aj primeranosť účtovných odhadov a súvisiacich informácií zverejnených štatutárnym orgánom.
- Robíme záver o tom, či štatutárny orgán vhodne používa účtovnú zásadu nepretržitého pokračovania v činnosti, a na základe získaných audítorských dôkazov záver o tom, či existuje významná neistota v súvislosti s udalosťami alebo okolnosťami, ktoré by mohli významne spochybniť schopnosť Inštitúcie nepretržite pokračovať v činnosti. Ak dospejeme k záveru, že významná neistota existuje, sme povinní upozorniť v našej správe audítora na súvisiace informácie uvedené v účtovnej závierke alebo, ak sú takéto zverejnené informácie nedostatočné, modifikovať náš názor. Naše závery však vychádzajú z audítorských dôkazov získaných do dátumu vydania našej správy audítora. Budúce udalosti alebo okolnosti však môžu spôsobiť, že Inštitúcia prestane pokračovať v nepretržitej činnosti.
- Hodnotíme celkovú prezentáciu, štruktúru a obsah účtovnej závierky vrátane zverejnených informácií, ako aj to, či účtovná závierka verne zobrazuje uskutočnené transakcie a udalosti.

So štatutárnym orgánom komunikujeme okrem iných záležitostí plánovaný rozsah a časový harmonogram auditu a významné zistenia z auditu, vrátane významných nedostatkov v interných kontrolách, ktoré identifikujeme počas nášho auditu.

SPRÁVA K ĎALŠÍM POŽIADAVKÁM ZÁKONOV A INÝCH PRÁVNYCH PREDPISOV

Správa k informáciám, ktoré sa uvádzajú vo výročnej správe

Štatutárny orgán je zodpovedný za informácie uvedené vo výročnej správe zostavenej podľa požiadaviek zákona o účtovníctve a zákona č. 243/2017 Z.z. o verejnej výskumnej inštitúcii a o zmene a doplnení niektorých zákonov (ďalej len „zákon o VVI"). Náš vyššie uvedený názor na účtovnú závierku sa nevzťahuje na iné informácie vo výročnej správe.

V súvislosti s auditom účtovnej závierky je našou zodpovednosťou oboznámenie sa s informáciami uvedenými vo výročnej správe a za vyhodnotenie, či tieto informácie nie sú vo významnom nesúlade s účtovnou závierkou alebo našimi poznatkami, ktoré sme získal počas auditu účtovnej závierky, alebo sa inak zdajú byť významne nesprávne.

Výročnú správu sme ku dňu vydania správy audítora z auditu účtovnej závierky nemali k dispozícii.

Keď získame výročnú správu, posúdime, či výročná správa Inštitúcie obsahuje informácie, ktorých uvedenie vyžaduje zákon o VVI, a na základe prác vykonaných počas auditu účtovnej závierky vyjadríme názor, či:

- informácie uvedené vo výročnej správe zostavenej za rok 2024 sú v súlade s účtovnou závierkou za daný rok,
- výročná správa obsahuje informácie podľa a zákona o VVI.

Okrem toho uvedieme, či sme zistili významné nesprávnosti vo výročnej správe na základe našich poznatkov o Inštitúcii a jej situácii, ktoré sme získali počas auditu účtovnej závierky.

Malé Leváre, 26.jún 2025

Ing. Juraj Kello

zodpovedný audítor
Licencia UDVA č. 1034

V mene spoločnosti:

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Fyzikálny ústav Slovenskej akadémie vied, verejná výskumná inštitúcia

DODATOK SPRÁVY NEZÁVISLÉHO AUDÍTORA K VÝROČNEJ SPRÁVE

v zmysle § 27 odsek 6 zákona č. 423/2015 Z.z. o štatutárnom audite a o zmene a doplnení zákona č. 431/2002 Z. z. o účtovníctve v znení neskorších predpisov (ďalej len „zákon o štatutárnom audite")

Štatutárnemu orgánu a dozornej rade Fyzikálneho ústavu Slovenskej akadémie vied, verejnej výskumnej inštitúcie:

I. Overili sme účtovnú závierku Fyzikálneho ústavu Slovenskej akadémie vied, verejnej výskumnej inštitúcie (ďalej len „Inštitúcia"), k 31. decembru 2024 uvedenú v prílohe priloženej výročnej správy Inštitúcie, ku ktorej sme dňa 26.júna 2025 vydali správu nezávislého audítora z auditu účtovnej závierky v nasledujúcom znení:

SPRÁVA Z AUDITU ÚČTOVNEJ ZÁVIERKY

Podmienený názor

Uskutočnili sme audit účtovnej závierky Fyzikálneho ústavu Slovenskej akadémie vied, verejnej výskumnej inštitúcie (ďalej len „Inštitúcia"), ktorá zahŕňa súvahu k 31. decembru 2024, výkaz ziskov a strát za rok, ktorý sa skončil k uvedenému dátumu, a poznámky, ktoré obsahujú súhrn významných účtovných zásad a účtovných metód.

Podľa nášho názoru, okrem vplyvu skutočnosti opísanej v odseku Základ pre podmienený názor, účtovná závierka poskytuje pravdivý a verný obraz finančnej situácie Inštitúcie k 31. decembru 2024 a výsledku jej hospodárenia za rok, ktorý sa skončil k uvedenému dátumu, v súlade so zákonom č. 431/2002 Z. z. o účtovníctve v znení neskorších predpisov (ďalej len „zákon o účtovníctve").

Základ pre podmienený názor

Inštitúcia vykazuje vo výkaze ziskov a strát na riadku 59 Tržby z predaja dlhodobého hmotného majetku vo výške 467 804 €. Inštitúcia vykázala uvedené tržby v roku 2024 vo výkaze ziskov a strát, čo nie je v súlade so zákonom o účtovníctve, keďže sa jedná o prijatie zmluvnej zálohy za položku dlhodobého hmotného majetku, kde podmienky na vykázanie tržby vo výkaze ziskov a strát boli splnené až v roku 2025. Ak by bola uvedená zmluvná záloha vykázaná správne, znížil by sa výsledok hospodárenia po zdanení ako aj vlastné imanie o 467 804 € a zároveň by záväzky z obchodného styku boli vyššie o prijaté preddavky vo výške 467 804 €.

Audit sme uskutočnili v súlade s Medzinárodnými audítorskými štandardmi. Naša zodpovednosť podľa týchto štandardov sa bližšie uvádza v odseku Zodpovednosť audítora za audit účtovnej závierky. Od Inštitúcie sme nezávislí podľa ustanovení zákona č. 423/2015 Z. z. o štatutárnom audite (ďalej len „zákon o štatutárnom audite") a o zmene a doplnení zákona č. 431/2002 Z. z. o účtovníctve v znení neskorších predpisov týkajúcich sa etiky vrátane Etického kódexu audítora, ktoré sú relevantné pre náš audit účtovnej závierky, a splnili sme aj ostatné požiadavky týchto ustanovení týkajúcich sa etiky. Sme presvedčení, že získané audítorské dôkazy poskytujú dostatočný a vhodný základ pre náš podmienený názor.

Iná skutočnosť

Účtovná závierka Fyzikálneho ústavu Slovenskej akadémie vied, verejnej výskumnej inštitúcie za rok končiaci sa 31. decembra 2023 nebola auditovaná. Vykonali sme špecifické audítorské postupy s cieľom získať dôkazy týkajúce sa začiatočných stavov. Náš názor nie je vzhľadom na túto skutočnosť modifikovaný.

Zodpovednosť štatutárneho orgánu a osôb poverených spravovaním za účtovnú závierku

Štatutárny orgán Inštitúcie zodpovedá za zostavenie účtovnej závierky tak, aby poskytovala pravdivý a verný obraz v súlade so zákonom o účtovníctve, a za interné kontroly, ktoré štatutárny orgán Inštitúcie považuje za potrebné pre zostavenie účtovnej závierky, aby neobsahovala významné nesprávnosti, či už v dôsledku podvodu alebo chyby.

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Pri zostavovaní účtovnej závierky štatutárny orgán zodpovedá za zhodnotenie schopnosti Inštitúcie nepretržite pokračovať vo svojej činnosti, za opísanie skutočností týkajúcich sa nepretržitého pokračovania v činnosti, ak je to potrebné, a za použitie predpokladu nepretržitého pokračovania v činnosti v účtovníctve, ibaže by mal v úmysle Inštitúciu zlikvidovať alebo ukončiť jej činnosť, alebo by nemal inú reálnu možnosť než tak urobiť.

Osoby poverené spravovaním sú zodpovedné za dohľad nad procesom finančného výkazníctva Inštitúcie.

Zodpovednosť audítora za audit účtovnej závierky

Našou zodpovednosťou je získať primerané uistenie, či účtovná závierka ako celok neobsahuje významné nesprávnosti, či už v dôsledku podvodu alebo chyby, a vydať správu audítora, ktorá obsahuje názor audítora. Primerané uistenie predstavuje vysoký stupeň uistenia, ale nie záruku, že audit vykonaný podľa Medzinárodných audítorských štandardov vždy odhalí prípadnú významnú nesprávnosť. Nesprávnosti môžu vzniknúť v dôsledku podvodu alebo chyby a považujú sa za významné, ak by bolo opodstatnené očakávať, že jednotlivo alebo v súhrne ovplyvnia ekonomické rozhodnutia používateľov, ktoré boli prijaté na základe tejto účtovnej závierky.

V rámci auditu v súlade s Medzinárodnými audítorskými štandardmi uplatňujeme odborný úsudok a zachovávame profesionálny skepticizmus počas celého auditu. Okrem toho:

- Identifikujeme a posudzujeme riziká významnej nesprávnosti účtovnej závierky, či už v dôsledku podvodu alebo chyby, navrhujeme a vykonávame audítorské postupy reagujúce na tieto riziká a získavame audítorské dôkazy, ktoré sú dostatočné a vhodné na poskytnutie základu pre názor audítora. Riziko neodhalenia významnej nesprávnosti v dôsledku podvodu je vyššie ako riziko v dôsledku chyby, pretože podvod môže zahŕňať tajnú dohodu, falšovanie, úmyselné vynechanie, nepravdivé vyhlásenie alebo obídenie internej kontroly.
- Oboznamujeme sa s internými kontrolami relevantnými pre audit, aby sme mohli navrhnúť audítorské postupy vhodné za daných okolností, ale nie aby sme vyjadrili názor na efektívnosť interných kontrol Inštitúcie.
- Hodnotíme vhodnosť použitých účtovných zásad a účtovných metód, ako aj primeranosť účtovných odhadov a súvisiacich informácií zverejnených štatutárnym orgánom.
- Robíme záver o tom, či štatutárny orgán vhodne používa účtovnú zásadu nepretržitého pokračovania v činnosti, a na základe získaných audítorských dôkazov záver o tom, či existuje významná neistota v súvislosti s udalosťami alebo okolnosťami, ktoré by mohli významne spochybniť schopnosť Inštitúcie nepretržite pokračovať v činnosti. Ak dospejeme k záveru, že významná neistota existuje, sme povinní upozorniť v našej správe audítora na súvisiace informácie uvedené v účtovnej závierke alebo, ak sú takéto zverejnené informácie nedostatočné, modifikovať náš názor. Naše závery však vychádzajú z audítorských dôkazov získaných do dátumu vydania našej správy audítora.. Budúce udalosti alebo okolnosti však môžu spôsobiť, že Inštitúcia prestane pokračovať v nepretržitej činnosti.
- Hodnotíme celkovú prezentáciu, štruktúru a obsah účtovnej závierky vrátane zverejnených informácií, ako aj to, či účtovná závierka verne zobrazuje uskutočnené transakcie a udalosti.

So štatutárnym orgánom komunikujeme okrem iných záležitostí plánovaný rozsah a časový harmonogram auditu a významné zistenia z auditu, vrátane významných nedostatkov v interných kontrolách, ktoré identifikujeme počas nášho auditu.

II. Správa k ďalším požiadavkám zákonov a iných právnych predpisov

Správa k informáciám, ktoré sa uvádzajú vo výročnej správe – dodatok správy nezávislého audítora

Štatutárny orgán je zodpovedný za informácie uvedené vo výročnej správe zostavenej podľa požiadaviek zákona o účtovníctve a zákona č. 243/2017 Z.z. o verejnej výskumnej inštitúcii a o zmene a doplnení niektorých zákonov (ďalej len „zákon o VVI"). Náš vyššie uvedený názor na účtovnú závierku sa nevzťahuje na iné informácie vo výročnej správe.

V súvislosti s auditom účtovnej závierky sme zodpovední za oboznámenie sa s informáciami uvedenými vo výročnej správe a za vyhodnotenie, či tieto informácie nie sú vo významnom nesúlade s účtovnou závierkou alebo našimi poznatkami, ktoré sme získali počas auditu účtovnej závierky, alebo sa inak zdajú byť významne nesprávne. Vyhodnotili sme, či výročná správa Inštitúcie obsahuje informácie, ktorých uvedenie vyžaduje zákon o VVI.

Podľa nášho názoru, na základe prác vykonaných počas auditu účtovnej závierky:

- informácie uvedené vo výročnej správe zostavenej za rok 2024 sú v súlade s účtovnou závierkou za daný rok,
- výročná správa obsahuje informácie podľa zákona o VVI.

Okrem toho, na základe našich poznatkov o Inštitúcii a jej situácii, ktoré sme získali počas auditu účtovnej závierky, sme povinní uviesť, či sme zistili významné nesprávnosti vo výročnej správe, ktorú sme obdržali pred dátumom vydania tejto správy audítora. V tejto súvislosti neexistujú zistenia, ktoré by sme mali uviesť.

Malé Leváre, 14.júla 2025

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