Fyzikálny ústav SAV, v. v. i.

Výročná správa o činnosti a hospodárení za rok 2023

Bratislava

február 2024

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PRÍLOHY K ČASTI B

ČASŤ A

Fyzikálny ústav SAV, v. v. i.

Výročná správa o činnosti organizácie
za rok 2023

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 Gendiar, PhD.
Vedecký tajomník: Mgr. Erik Bartoš, PhD.
Predseda vedeckej rady: Mgr. Erik Bartoš, PhD.
Člen Snemu SAV: RNDr. Katarína Gmucová, CSc.
Adresa: Dúbravská cesta 9, 845 11 Bratislava 45

http://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	85	29	18	8	114	72.79	52.97	4.3
Vedeckí pracovníci	74	64	10	4	2	74	52.51	50.34	1
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	22	16	6	13	5	22	4.76	2.63	0
Odborní pracovníci VŠ (ostatní zamestnanci[2])	8	1	7	1	1	8	5.85	0	2.2
Odborní pracovníci ÚS	9	3	6	0	0	9	8.43	0	0.1
Ostatní pracovníci	1	1	0	0	0	1	1.24	0	1

[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 31.12.2023 (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 31.12.2023 (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 31.12.2023)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	14	51	5	5	20	31	13
Ženy	1	10	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	4	1.1	6	3.9	8	6.6	8	6.8	11	6.9	1	0.8	3	2.2	11	10.2	13	10.2
Ženy	3	0.1	3	1.4	4	2.9	0	0.0	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 31.12.2023

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	49.5	53.2	51.3
Ženy	46.1	46.1	42.0
Spolu	48.6	52.2	49.7

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 na pravidelných mesačných neformálnych stretnutiach (druhá streda v mesiaci), tzv. **kolégiách**. Vo februári/marci sa uskutočňujú stretnutia vedenia s vedeckými pracovníkmi na jednotlivých oddeleniach.

Dozorná rada FÚ SAV, v. v. i. pracuje v nasledovnom zložení:

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

Správna rada FÚ SAV, v. v. i. pracuje v nasledovnom zložení:

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.

Vedecká rada FÚ SAV, v. v. i. pracuje v nasledovnom zložení:

Interní členovia:
Mgr. Erik Bartoš, PhD. (predseda),
Ing. Irena Gejdoš Janotová, PhD.,
RNDr. Naďa Mrkývková, PhD. (podpredsedníčka),
Mgr. Martin Venhart, PhD.

Externí členovia:
Ing. Marián Deanko, PhD. (Vacuumschmelze, s. r. o.),
Mgr. Martin Lištjak, PhD. (VÚJE, a. s.),
doc. RNDr. Jozef Strečka, PhD. (UPJŠ)

Správy o činnosti VR ako aj dokumenty FÚ SAV, v. v. i. ako verejnej výskumnej inštitúcie sú prístupné na ústavnej webstránke.

2. Vedecko-výskumná činnosť – projekty, výsledky

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2023

<table>
<tr><th rowspan="4">ŠTRUKTÚRA PROJEKTOV</th><th colspan="2">Počet</th><th colspan="6">Čerpané financie (€)</th></tr>
<tr><th rowspan="3">A</th><th rowspan="3">B</th><th colspan="4">A</th><th colspan="2">B</th></tr>
<tr><th colspan="2">Zo zdrojov SAV</th><th colspan="2">Z iných zdrojov</th><th rowspan="2">Zo zdrojov SAV</th><th rowspan="2">Z iných zdrojov</th></tr>
<tr><th>Spolu</th><th>Pre organi-záciu</th><th>Spolu</th><th>Pre organi-záciu</th></tr>
<tr><td>1. Projekty VEGA</td><td>17</td><td>6</td><td>152439</td><td>139463</td><td>-</td><td>-</td><td>20431</td><td>-</td></tr>
<tr><td>2. Projekty APVV</td><td>12</td><td>10</td><td>-</td><td>-</td><td>197420</td><td>194779</td><td>-</td><td>103598</td></tr>
<tr><td>3. Projekty EŠIF/OP ŠF,
Plán obnovy EÚ</td><td>2</td><td>0</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr>
<tr><td>4. Projekty SASPRO, MoRePro, IMPULZ</td><td>1</td><td>0</td><td>111802</td><td>111802</td><td>-</td><td>-</td><td>-</td><td>-</td></tr>
<tr><td>5. Iné projekty (FM EHP,
Vedecko-technické projekty,
na objednávku rezortov a pod.)</td><td>1</td><td>0</td><td>-</td><td>-</td><td>10000</td><td>10000</td><td>-</td><td>-</td></tr>
</table>

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2023

<table>
<tr><th>Štruktúra projektov</th><th>Miesto podania</th><th>Organizácia je nositeľom projektu</th><th>Organizácia sa zmluvne podieľa na riešení projektu</th></tr>
<tr><td>1. Účasť na nových výzvach APVV r. 2023</td><td>Bratislava</td><td>4</td><td>4</td></tr>
<tr><td rowspan="2">2. Projekty výziev EŠIF podané r. 2023</td><td>Bratislava</td><td></td><td></td></tr>
<tr><td>Regióny</td><td></td><td></td></tr>
</table>

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2023

Tabuľka 2c Medzinárodné projekty riešené v roku 2023

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
			A				B	
	A	B	Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty Horizont 2020 a Horizont Európa	1	1	-	-	-	485841	-	-
2. Projekty ERA.NET, ESA, JRP	0	2	-	-	-	-	44364	-
3. Projekty COST	1	1	-	2500	-	-	2500	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	1	-	-	-	-	-	6860
5. Projekty v rámci medzivládnych dohôd	1	2	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	1	0	-	1500	-	-	-	-
7. Bilaterálne projekty ostatné	2	0	-	49800	-	-	-	-
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	1	0	-	-	-	485841	-	-
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	-	-	-	-	-	-
10. Iné projekty	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2023

Tabuľka 2d Počet projektov Horizont Európa v roku 2023

	A	B
Počet podaných projektov Horizont Európa	-	-

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

V budúcom roku sa bude uchádzať o ERC Advanced Grant kolektív pod vedením M. Venharta v rámci podpory z Nadačného fondu Nadácie ESET.

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2023

2.3.1. Výsledky na báze základného výskumu

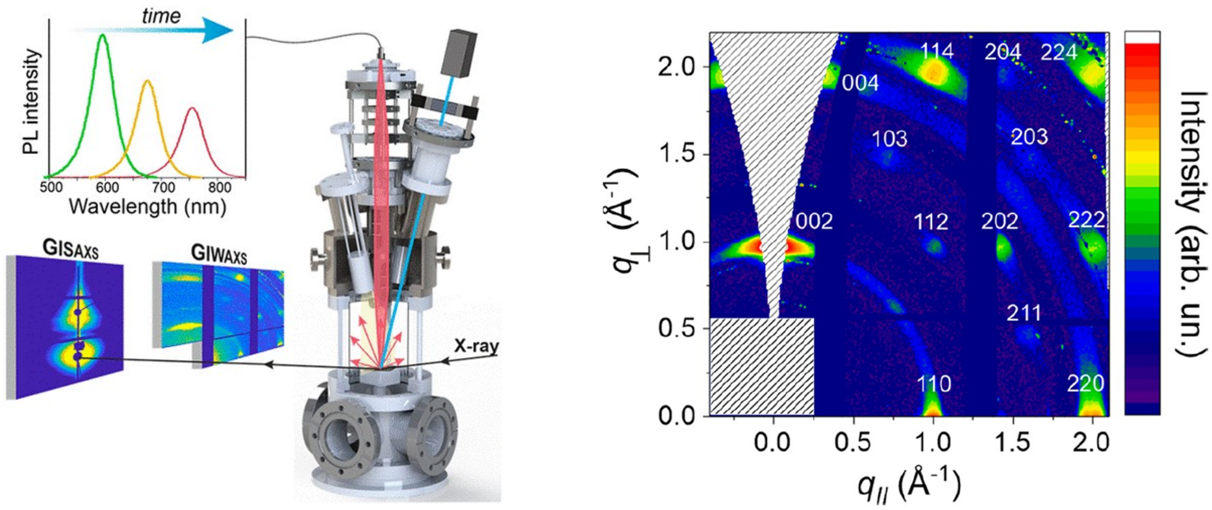
Názov: *In-situ* a *in-operando* analýza perovskitových vrstiev pre aplikácie v optoelektronike

Autori: Naďa Mrkývková a kolektív autorov OMN (APVV-21-0297, APVV-19-0465, APVV-20-0111, VEGA 2/0046/21, VEGA 2/0041/21)

Abstrakt: Za posledné dva roky sme zdokonalili naše analytické techniky charakterizácie štruktúrnych a optoelektronických vlastností perovskitových vrstiev a zvýšili ich efektivitu kombináciou meraní rozptylu röntgenového žiarenia a fotoluminiscencie v reálnom čase, a to predovšetkým s využitím synchrotrónových zdrojov. To nám umožnilo priame pozorovanie procesov na nanoškále. Predovšetkým sme objasnili mechanizmus nukleácie a rastu tenkých perovskitových vrstiev vznikajúcich pomocou fyzikálnej depozície z plynnej fázy [1]. Táto štúdia identifikovala tri kritické fázy rastu: tvorbu izolovaných zárodkov, nasledovanú ich koalescenciou a ďalším rastom. Objasnili sme, ako tento spôsob rastu vedie k vzniku nežiarivých defektov na hraniciach zŕn, ktoré obmedzujú účinnosť perovskitových solárnych článkov. Okrem synchrotrónového žiarenia sme využili aj mikrofokusné zdroje na experimenty širokouhlého rozptylu röntgenového žiarenia (GIWAXS) v laboratórnych podmienkach, a to na skúmanie štruktúry a textúry perovskitových tenkých vrstiev pre jednoduché perovskitové solárne články [2] a tandemové solárne články využívajúce kombináciu kremíkových a perovskitových absorbérov [3]. Objasnili sme tiež tvorbu fáz v zmiešaných 3D/2D halidových perovskitových vrstvách pre aplikácie do fotodetektorov [4,5].

1. V. Held, N. Mrkyvkova, P. Nádaždy, K. Vegso, A. Vlk, M. Ledinský, M. Jergel, A. Chumakov, S. V. Roth, F. Schreiber, P. Siffalovic, Journal of Physical Chemistry Letters 2022, 13, 11905. https://doi.org/10.1021/acs.jpclett.2c03422
2. M. Liu, D. Zheng, T. Zhu, K. Vegso, P. Siffalovic, T. Pauporté, M. Liu, D. Zheng, T. Zhu, T. Pauporté, C. Paristech, K. Vegso, P. Siffalovic, *Adv Mater Interfaces* **2023**, 2300773. https://doi.org/10.1002/admi.202300773
3. M. De Bastiani, R. Jalmood, J. Liu, C. Ossig, A. Vlk, K. Vegso, M. Babics, F. H. Isikgor, A. S. Selvin, R. Azmi, E. Ugur, S. Banerjee, A. J. Mirabelli, E. Aydin, T. G. Allen, A. Ur

Rehman, E. Van Kerschaver, P. Siffalovic, M. E. Stuckelberger, M. Ledinsky, S. De Wolf, *Adv Funct Mater* **2023**, *33*, 2205557.
https://doi.org/10.1002/adfm.202205557
4. T. Wang, D. Zheng, K. Vegso, N. Mrkyvkova, P. Siffalovic, T. Pauporté, *Adv Funct Mater* **2023**, *33*, 2304659.
https://doi.org/10.1002/adfm.202304659
5. T. Wang, D. Zheng, K. Vegso, N. Mrkyvkova, P. Siffalovic, X. Yuan, M. G. Somekh, L. Coolen, T. Pauporte, F. Fu, *Nano Energy* **2023**, *116*, 108827.
https://doi.org/10.1016/j.nanoen.2023.108827



Obr. Schéma depozičnej komory a geometrie röntgenového rozptylu (vľavo), GIWAXS mapa reciprokého priestoru na konci rastu perovskitovej vrstvy MAPbI s indexovanými difrakčnými bodmi (vpravo).

Ďalší prihlásený výsledok:

1. Quantum Dynamics is Not Strictly Bidivisible, Autori: D. Davalos a M. Ziman (CVKI)

2.3.2. Výsledky aplikačného typu

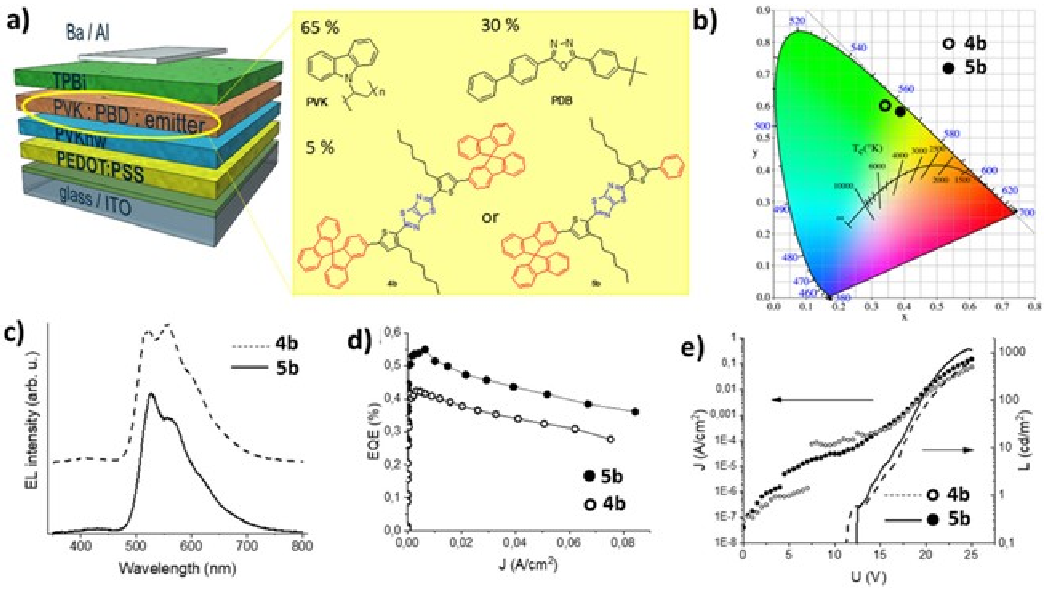
Názov: Nový typ malých molekúl tiazolo[5,4-d]tiazolov so spirobifluorénovou skupinou pre organické emitéry v oblati žltého svetla

Autori: Kamil Tokár a kol. (VEGA 2/0055/21; APVV No. 19-0087; APVV no. 19-0338; ITMS projects 313021T081 & 313011W085 supported by the Research & Innovation Operational Program funded by the ERDF; PRACE Fenix Infrastructure resources at TGCC partially funded from the European Union's Horizon 2020 research and innovation programme through the ICEI grant agreement No. 800858)

Abstrakt: Súčasné organické svetloemitujúce OLEDy komerčného charakteru využívajú emisiu červeného, zeleného a modrého svetla v RGB(Y) displejoch. Avšak, tieto sú tvorené hlavne fosforescentnými organo-kovovými derivátmi obsahujúce irídium a predstavujú staršiu generáciu emitérov, pričom ich syntéza je pomerne drahá.

V práci bola navrhnutá a realizovaná pomocou trojkrokovej organickej syntézy séria tiazolo[5,4-d]tiazolov s bipolárnym (e-h) charakterom. Organické štruktúry pozostávajú z centrálneho tiazolo[5,4-d]tiazolu ako akceptora (A) a terminálnej, aspoň jednej spirobifluorénovej skupiny ako donora (D) elektrónov. Obidve časti sú prepojené tiofénovým π-linkerom. Stredne veľký π systém je nevyhnutný na dosiahnutie emisie svetla s vlnovou dĺžkou zodpovedajúcou žltej farbe.

Pripravené molekuly sú plne π -konjugované na zabezpečenie podmienky prekrytia hraničných molekulových orbitálov (FMO). Nové zlúčeniny vykazujú potrebné elektronické vlastnosti s energetickými medzerami v intervale 2.5–3.0 eV. Tieto relatívne malé molekuly sa vyznačujú dobrou tepelnou stabilitou a fotofyzikálnymi vlastnosťami vhodnými pre aplikácie v optoelektronických materiáloch. Pri integrácii do laboratórne pripravených elektroluminiscenčných zariadení, ako hostiteľských materiálov, vykazovali emisiu svetla v žlto-zelenej oblasti spektra, čo je jedinečné pri malých organických molekulách. To predstavuje potenciál pri vývoji nových nízkohmotnostných a plne organických dopantov pre elektroluminiscenčné prvky. Emitéry na báze takýchto malých molekúl predstavujú oveľa lacnejšiu analógiu organo-kovových derivátov príp. polymérov, pričom ich východiskové látky sú relatívne ľahko dostupné.



Obr. Charakteristiky elektroluminiscenčného prípravku laboratórneho OLED-u, obsahujúceho symetrický derivát **4b** a asymetrickú zlúčeninu **5b** ako hostiteľský materiál emisnej vrstvy – schéma vzorky a výsledná chemická štruktúra hostiteľského materiálu (pre elektrónové-dierové transportné vrstvy (ETL/HTL) sú zakrúžkované červene) a), CIE (de L'Eclairage súradnice medzinárodnej farebnej škály) pre prípravok s **4b** vrstvou sa vzťahuje na žltkavo-zelené (x = 0,321, y = 0,602), prípravok s aplikovanou zlúčeninou **5b** emituje žltozelené svetlo (x = 0,354, y = 0,569) b). Elektroluminiscenčný prvok (EL) obsahujúci **5b** komponent vykazuje lepšie opto-elektronické charakteristiky v zmysle c) elektroluminiscenčnej intenzity pri 16 V, d) externej kvantovej účinnosti (EQE) a napokon e) maximálnej svietivosti pri spínacom napätí 11 V (**4b**)/12 V (**5b**).

1. ECKSTEIN ANDICSOVÁ A., TOKÁROVÁ Z., - KOZMA E., BALOGH R. - VYKYDALOVÁ A., MRÓZ W., TOKÁR K., Thiazolo[5,4-d]thiazoles with a spirobifluorene moiety as novel D-p-A type organic hosts: design, synthesis, structure-property relationship and applications in electroluminescent devices. In New Journal of Chemistry, 2023, vol. 47, no. 23, p. 11165-11175. (2022: 3.3 - IF, Q2 - JCR, 0.601 - SJR, Q2 - SJR). ISSN 1144-0546.
2. BALOGH R., ECKSTEIN ANDICSOVÁ A., TOKÁR K.,& DANKO M., The synthesis and spectral study of thiazolo[5,4-d]thiazole based small molecules using 1,3,4-oxadiazole as a linker for organic electronics. In Journal of Photochemistry and Photobiology. A: chemistry, 2023, vol. 434, no. 1, art. no. 114217, [11] p. (2022: 4.3 - IF, Q2 - JCR, 0.678 - SJR, Q2 - SJR). ISSN 1010-6030.

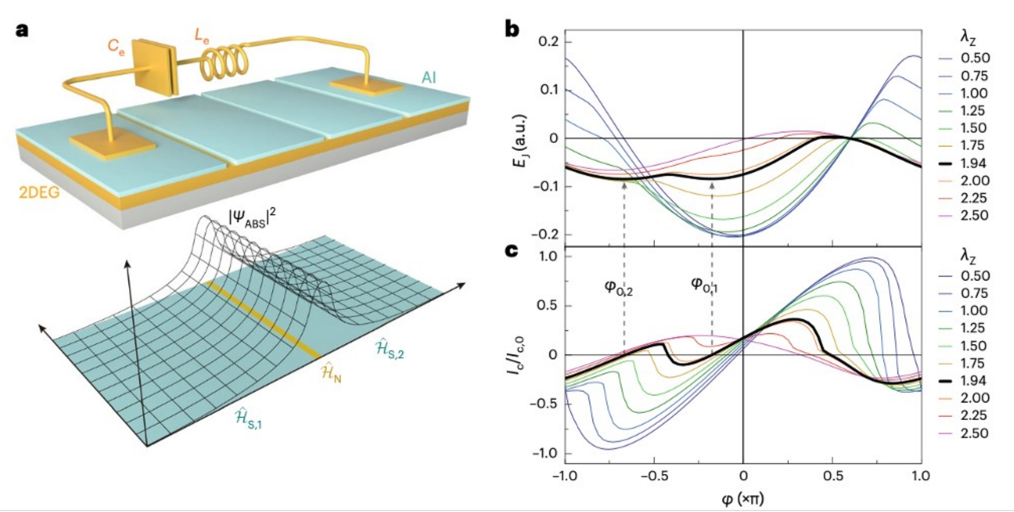
3. GAŠPAROVÁ M., KABAŇOVÁ N., TOKÁR K. Novel type of azomethine with combined effects of thiophene cores and vicinal cyano groups. In Monatshefte für Chemie, 2022, vol. 153, no. 11, p. 1099-1105. (2021: 1.613 - IF, Q4 - JCR, 0.273 - SJR, Q3 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0026-9247.

2.3.3. Výsledky na báze medzinárodnej spolupráce

Názov: Supercurrent diodes

Autori: Denis Kochan a kol. (IMPULZ)

Abstrakt: Nedávny objav vlastného supravodivého diódového efektu a jeho okamžité pozorovanie v bohatej škále systémov ukázali, že nerecipročné supravodiče prirodzene vznikajú pri porušení priestorovo-inverznej aj časovo-inverznej symetrie. V Josephsonových prechodoch možno nerecipročný supravodič pohodlne opísať v termínoch spinovo rozštiepených Andreevových stavov. V nominovaných prácach sme demonštrovali obrátenie znamienka Josephsonovej indukčnosti a jej magnetochirálnu anizotropiu - bezprecedentný prejav supravodičiového diódového efektu a stále nevysvetlený prechod podobný 0-π. Asymetria Josephsonovej indukčnosti ako funkcie supravodivosti nám umožnila skúmať vzťah medzi prúdom a fázou v blízkosti rovnovážneho stavu a skúmať skoky v základnom stave prechodu. Pomocou minimálneho teoretického modelu sme prepojili zmenu znamienka magnetochirálnej anizotropie indukčnosti s takzvaným 0-π-ako prechodom, predpovedanou, ale stále nevysvetlenou vlastnosťou viackanálových prechodov. Naše výsledky dokazujú potenciál meraní indukčnosti ako citlivej sondy základných vlastností nekonvenčných Josephsonových prechodov.



Obr. Viackanálové Josephsonove spoje: experiment a teória.
a) Hore; náčrt experimentálneho zariadenia, ktoré pozostáva z 1D Josephsonovho spoja v sérii s LC obvodom. Supravodivé oblasti pozostávajú z 2D elektrónového plynu (2DEG; žltá farba) ktorý je proximitizovaný Al ostrovmi (tyrkysová farba); sú spojené slabými spojmi 2DEG, ktoré sú označené medzerami medzi Al ostrovmi.
Dole; teoretický model: 2D Rashba supravodič (tyrkysová), Andreevova vlnová funkcia viazaného stavu Ψ_{ABS} (čierne čiary znázorňujú jej absolútny štvorec) je silne lokalizovaná okolo bariéry a sprostredkúva prenos Cooperových párov.

b) Vypočítaná Josephsonova energia ako funkcia fázového rozdielu φ pre rôzne Zeemanove parametre λ_Z. Šípky označujú polohy dvoch relevantných energetických miním, ktoré su degenerované pre λ_Z =1,94 (hrubá čierna krivka), keď nastáva v systéme 0--π-like prechod.
c) Vypočítané vzťahy medzi prúdom a fázou pre Zeemanove parametre uvažované v bode b; prúd je normalizovaný v jednotkách kritického prúdu pre Josephsonov spoj v nulovom magnetickom poli.

1. Andreas Costa, Christian Baumgartner, Simon Reinhardt, Johanna Berger, Sergei Gronin, Geoffrey C. Gardner, Tyler Lindemann, Michael J. Manfra, Jaroslav Fabian, Denis Kochan, Nicola Paradiso, Christoph Strunk: Sign reversal of the Josephson inductance magnetochiral anisotropy and 0–π-like transitions in supercurrent diodes, Nature Nanotechnology 18, 1266–1272 (2023).
2. Andreas Costa, Jaroslav Fabian, Denis Kochan: Microscopic study of the Josephson supercurrent diode effect in Josephson junctions based on two-dimensional electron gas, Phys. Rev. B 108, 054522 (2023).

Ďalšie prihlásené výsledky:

1. Príspevok k porozumeniu vysokej účinnosti organického solárneho článku PM6:Y6, Autori: V. Nádaždy a kol. (OMN)
2. Jednoatómová katalýza aktivovaná pohyblivou sondou, Autori: R. Turanský a kol. (OTF)

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	**Počet v r. 2023/ doplnky z r. 2022**
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	**0 / 0**
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	**0 / 0**
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	**0 / 0**
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	**0 / 0**
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	**0 / 0**
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	**0 / 0**
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	**0 / 0**
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	**0 / 0**
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	**68 / 3**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**22 / 0**
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	**0 / 0**
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	**2 / 0**
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)	**8 / 1**
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)	**0 / 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. 2022 (zdroj JCR) *Počet článkov / doplnky*	38 / 0	29 / 1	7 / 1	2 / 1	76 / 3
Podľa SJR z r. 2022 (zdroj Scimago) *Počet článkov / doplnky*	54 / 0	23 / 1	2 / 1	10 / 1	89 / 3

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2022/ doplnky z r. 2021
Citácie vo WOS (1.1, 2.1)	3117 / 0
Citácie v SCOPUS (1.2, 2.2)	38 / 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)	1 / 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	13
Prednášky a vývesky na národných vedeckých podujatiach	8

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

prof. Ing. Štefan Luby, DrSc.
12. – 15. 6. 2023, Advances in Electronic and Photonic Technologies (Adept 2023), Podbanské, Slovakia, „Nanomaterials in medicine – unique applications under risk elimination"

RNDr. Ľubomír Martinovič, CSc.
18. - 22. 9. 2023, Light-Cone 2023: Hadrons and Symmetries, Rio de Janeiro, Brazil, „Light-front subtleties: zero modes, operator solutions, correlation functions"

RNDr. Marek Mihalkovič, CSc.
18. — 23. 6. 2021, ICQ15, Tel Aviv University, Israel, „Simulated structure and thermodynamic stability of the AlCoCu decagonal quasicrystal"

prof. Yuriy Plevachuk, DrSc.
10. – 13. 9. 2023, ECTP2023, Venice, Taliansko, „Thermophysical properties and microstructure of lead-free solder joints reinforced by metal deposited nanoparticles"
2. – 6. 10. 2023, HighMatTech-2023, Kyiv, Ukraine
„Effect of prolonged aging at sub-zero temperatures on the properties of lead-free solders"
„New Developments in Rapidly Quenched Soft and Hard Magnetic Alloys"

Ing. Peter Švec, DrSc.
4. – 11. 5. 2023, 8th International Conference on Superconductivity and Magnetism (ICSM2023), Fethiye-Oludeniz, Turecko,

„Comparison of Fe-B based metallic glasses after long-term room temperature ageing“,
„Stress tensor distribution monitoring & rehabilitation in steels“,
„Ultra-rapidly annealed high-Bs Fe(Co)-based soft magnetic nanocrystalline alloys for applications at elevated temperatures“
20. – 25. 8. 2023, ISMANAM27, Varšava, Poľsko, „Nanocrystalline rare-earth free magnetic alloys from rapidly quenched precursors“

Mgr. Martin Venhart, PhD.
1. – 5. 5. 2023, Shape Coexistence Workshop – 2023, University of Guelph, Canada, „Shape isomerism in 179Au“

doc. Mgr. Mário Ziman, PhD.
22. – 24. 3. 2023, Near-term Quantum Computing 2020(+3), Warszawa, Poland, „Storing and retrieval of qubit phase gates“
8. – 11. 6. 2023, 54th Symposium Mathematical Physics, Toruń, Poland, „Strict bidivisibility of quantum processes“

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach
–

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

RNDr. Ľubomír Martinovič, CSc.
01. 6. 2023, Laboratoire Univers et Particules de Montpellier, Université de Montpellier, France, „Subleties of light-front quantization“

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2023

2.7.1. Vynálezy, na ktoré bol v roku 2023 udelený patent

a) na Slovensku

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2023

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 2023

b) udelené v roku 2023

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 2023 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	2
Jergel Matej	APVV	1
Tokár Kamil	VEGA	1

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 1

2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

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

Meno pracovníka	Ved. monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahraničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahraničné
Bartoš Erik	0	0	2	0	0	0	0
Boháč Vlastimil	0	0	4	0	0	0	1
Butvinová Beata	0	0	0	0	0	0	1
Gendiar Andrej	0	0	2	0	0	0	0
Gmucová Katarína	0	0	2	0	0	0	0
Jergel Matej	0	0	5	0	0	0	0
Kalinay Pavol	0	0	2	0	0	0	0
Liptaj Andrej	0	0	1	0	0	0	0
Luby Štefan	4	0	1	0	0	0	0
Nádaždy Vojtech	0	0	1	0	0	0	0
Plesch Martin	0	0	10	0	0	0	0

Švec Peter	0	0	3	0	0	0	2
Ziman Mário	0	0	6	0	0	0	0
Spolu	**4**	**0**	**39**	**0**	**0**	**0**	**4**

2.11. Iné informácie k vedecko-výskumnej činnosti.

3. Medzinárodná vedecká spolupráca

3.1. Medzinárodné vedecké podujatia

3.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2023 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

ISTROS 2023 – Isospin, STructure, Reactions and energy Of Symmetry, Častá-Papiernička, Slovensko, 50 účastníkov, 14.05.-19.05.2023
Isospin, STructure, Reactions and energy Of Symmetry – experimental and theoretical aspects of physics of exotic nuclei and states of nuclear matter.

2023 "Flat Earth" Superconductivity Miniworkshop, Bratislava, Slovensko, 25 účastníkov, 08.06.-09.06.2023

APCOM 2023 – Applied Physics of Condensed Matter, Štrbské Pleso, Slovensko, 21.06.-23.06.2023

CEQIP |202?|++> – Central European Quantum Information Processing, Smolenice, Slovensko, 05.09.-08.09.2023

SURFINT-SREN VIII – Progress in Applied Surface, Interface and Thin Film Science, Bratislava, Slovensko, 20.11.-23.11.2023
The main goal of the conference is to contribute to new knowledge in surface, interface, ultra-thin films and very-thin films science of inorganic and organic materials by the most rapid interactive manner - by direct communication among scientists of corresponding research fields. The list of topics indicates that conference interests cover the development of basic theoretical physical and chemical principles and performance of surfaces-, thin films-, and interface-related procedures, and corresponding experimental research on atomic scale. Topical results are applied at development of new inventive industrial equipment needed for investigation of electrical, optical, and structural properties, and other parameters of atomic-size research objects. The conference range spreads, from physical point of view, from fundamental research done on sub-atomic and quantum level to production of devices built on new physical principles. The conference topics include also presentation of principally new devices in following fields: solar cells, liquid crystal displays, high-temperature superconductivity, and sensors. During the event, special attention will be given to evaluation of scientific and technical quality of works prepared by PhD students, to deep ecological meaning of solar cell energy production, and to exhibitions of companies.

3.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2024 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

APCOM 2024 – Applied Physics of Condensed Matter/APCOM 2024 – Applied Physics of Condensed Matter, Štrbské Pleso, Slovensko, 19.06.-21.06.2024, (Peter Švec, 02/ 59410 kl. 561, 562, 570, 582, peter.svec@savba.sk)

SSSI 2024 – Solid State Surfaces and Interfaces 2024/SSSI 2024 – Solid State Surfaces and Interfaces 2024, Zámok Smolenice, Slovensko, 18.11.-21.11.2024, (Emil Pinčík, 02/ 59410 kl. 548, emil.pincik@savba.sk)

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
Aktas Djeylan Vincent Ceylan	0	0	1
Boháč Vlastimil	2	0	0
Herzáň Andrej	0	0	2
Jergel Matej	1	0	0
Kochan Denis	0	0	1
Leppäjärvi Leevi Ilmari	0	0	1
Rapčan Peter	0	0	1
Sedlák Michal	0	0	1
Ziman Mário	0	0	1
Spolu	3	0	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.

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
Bartoš Erik	APVV SK-SRB	1
Plesch Martin	Erasmus +	12

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

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.

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.

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 2023

Forma	Počet k 31.12.2023				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2023					
							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	8	4	2	8	4	3	0	0	0	0	0
Denná z iných zdrojov	2	2	2	1	1	1	1	0	1	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0	0	0
Spolu	16	10	6	3	9	5	4	0	1	0	0	0
Z toho zahraničných	10	7	4	3	5	3	2	0	1	0	0	0
Súhrn	26		9		14		4		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 2023 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 2023 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. Muhammad Faraz Ud Din	interné štúdium hradené z iných zdrojov	3 / 2020	7 / 2023	5.2.48 fyzikálne inžinierstvo	RNDr. Eva Majková DrSc., Fyzikálny ústav SAV, v. v. i.	Fakulta elektrotechniky a informatiky STU
Ing. Alen Fos	interné štúdium hradené z prostriedkov SAV	9 / 2019	7 / 2023	5.2.48 fyzikálne inžinierstvo	Ing. Peter Švec DrSc., Fyzikálny ústav SAV, v. v. i.	Fakulta elektrotechniky a informatiky STU
Mgr. Vladimír Held	interné štúdium hradené z prostriedkov SAV	9 / 2019	7 / 2023	4.1.4 kvantová elektronika a optika	RNDr. Eva Majková DrSc., Fyzikálny ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK
Mgr. Andrej Špaček	interné štúdium hradené z prostriedkov SAV	9 / 2019	9 / 2023	4.1.5 jadrová a subjadrová fyzika	Mgr. Andrej Herzáň 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 2023 úspešnou obhajobou v nadštandardnej dĺžke štúdia

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

5.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 5e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov	z toho koľkí sa	z toho koľkí sa	z toho koľkí sa	z toho koľkí boli

PhD. štúdia v roku 2023 (obhajoba leto 2023)	zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	nejaký čas nezamestnaní
0	0	0	0	0

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

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
1	0	0	IND/9, PAK/4, IRN/2, BRA/1, KAZ/1, MEX/1, RUS/1, SRB/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
chémia	1420		
elektrotechnika	2675	fyzikálne inžinierstvo	Slovenská technická univerzita v Bratislave
všeobecná fyzika a matematická fyzika	4.1.2		Fakulta matematiky, fyziky a informatiky UK
fyzika kondenzovaných látok a akustika	4.1.3		
kvantová elektronika a optika	4.1.4		Fakulta matematiky, fyziky a informatiky UK
jadrová a subjadrová fyzika	4.1.5		Fakulta matematiky, fyziky a informatiky UK
jadrová a subjadrová fyzika	4.1.5		Fakulta matematiky, fyziky a informatiky 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.
Do 31. 8. 2023 študujú študenti doktorandského štúdia zaradení do študijných programov podľa zoznamu MŠVVaŠ, platného do 1. 9. 2019. Pre týchto študentov je potrebné napísať názov programu ako voľný text do stĺpca 3 a nevypĺňovať stĺpce 1 a 2.

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, DrSc. (všeobecná fyzika a matematická fyzika)	prof. Ing. Ivan Štich, DrSc. (Fakulta prírodných vied UCM)	
RNDr. Stanislav Dubnička, DrSc. (všeobecná fyzika a matematická fyzika)		
RNDr. Stanislav Dubnička, DrSc. (jadrová a subjadrová fyzika)		
Mgr. Andrej Gendiar, PhD. (všeobecná fyzika a matematická fyzika)		
Mgr. Andrej Gendiar, PhD. (všeobecná fyzika a matematická fyzika)		
Ing. Štefan Gmuca, CSc. (jadrová a subjadrová fyzika)		
Ing. Matej Jergel, DrSc. (fyzika kondenzovaných látok a akustika)		
Ing. Matej Jergel, DrSc. (kvantová elektronika a optika)		
Ing. Matej Jergel, DrSc. (fyzikálne inžinierstvo)		
RNDr. Pavol Kalinay, CSc. (všeobecná fyzika a matematická fyzika)		
Ing. Ján Kliman, DrSc. (fyzika)		
Ing. Ján Kliman, DrSc. (jadrová a subjadrová fyzika)		
Ing. Ján Kliman, DrSc. (jadrová energetika)		
Ing. Ján Kliman, DrSc. (fyzikálne inžinierstvo)		
Ing. Ján Kliman, DrSc. (odbor v zahraničí)		
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 2023

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	7	2	1	0
Celkový počet hodín v r. 2023	329	91	24	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**	5
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	6
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	4
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	7
5.	**Počet oponovaných dizertačných a habilitačných prác**	7
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	6
7.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác**	0
8.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác**	5
9.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách**	1

5.9. Iné dôležité informácie k pedagogickej činnosti

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

Kontaktným bodom a zástupkyňou v skupine **Mladí Vedci SAV** je **Ing. Monika Bírová**. Skupina združujúca doktorandov a mladých vedeckých pracovníkov napomáha internej komunikácii medzi členmi v otázkach spojených so štúdium a taktiež pri komunikácii študenotv s Predsedníctvom SAV. M. Bírová sa aktívne zapájala do činnosti skupiny, participovala na časti programu na konferencii Mladá nádej slovenskej vedy, organizovala Worskhop pre doktorandov a postdoktorandov v Starej Lesnej a dva kvízy pre verejnosť v rámci popularizačných podujatí.

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

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

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Dokuz Eylul University Izmir, Turkey
Oblasť spolupráce: Termofyzikálne vlastnosti uhlíkových nanorúrok 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: Sme spoluriešiteľmi VEGA projektu č. 1/0714/21: Výskum vybraných vlastností trvalo udržateľných izolačných materiálov s potenciálom využitia v drevostavbách. Doteraz boli pomocou prechodových metód vyšetrené vlastnosti objemových drevín a drevených kompozitov vo forme OSBD dosiek. Kompozitné materiály boli vyrobené z drevenej štiepky drevín pomaranču, duba, a ich zmesi vo verzii vysokej a strednej hustoty. Ďalšie vzorky vo výskume boli vyrobené z materiálov masívneho dreva: céder, topoľ a jelša. Termofyzikálne vlastnosti boli vyšetrované pomocou impulznej a skokovej prechodovej metódy. Na vyhodnotenie boli použité modely zohľadňujúce okrajové rušivé efekty odvodu tepla z povrchu vzorky s presnou geometriou v tvare kvádra a doskový model s vplyvom efektu kontaktového tepelného odporu a tepelnej kapacity zdroja tepelného impulzu. Doskový model s vplyvom tepelnej kapacity zdroja tepla a koeficientu prestupu tepla medzi zdrojom tepla a vzorkou bol overený na laboratórnom štandarde získanom z laboratória PTB.

Názov univerzity/vysokej školy a fakulty: Fakulta matematiky, fyziky a informatiky UK
Oblasť spolupráce: Spolupráca laboratórií elektrostatických urýchľovačov
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2017
Zhodnotenie: V rámci spolupráce s MFF UK Bratislava a MTF STU Trnava (UVP CAMBO) sa uskutočnili prvé diskusie o spolupráci pri využití elektrostatických urýchľovačov na Slovensku. Cieľom tejto spolupráce je vymedziť špecifické úlohy riešené na jednotlivých pracoviskách, dohodnúť spoločné využitie dostupných zdrojov a zariadení a spolupráca pri riešení možných technických problémov.

Názov univerzity/vysokej školy a fakulty: Montanuniversitaet Leoben, Rakúsko
Oblasť spolupráce: experimentálne
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2011
Zhodnotenie: V rámci spolupráce sú vykonávané mikroštruktúrne analýzy vzoriek širšej triedy materiálov pomocou sofistikovaných metód elektrónovej mikroskopie (Cs korigovaná HRTEM a

HRSTEM spojená s chemickou analýzou).

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Oblasť spolupráce: Katedra inžinierskej geológie
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2011
Zhodnotenie: Monitorovanie teplotno-vlhkostného režimu v tufovom masíve múzea sakalných obydlí v Brhlovciach.

Názov univerzity/vysokej školy a fakulty: Slovenská technická univerzita v Bratislave
Oblasť spolupráce: Experimentálne a teoretické
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2010
Zhodnotenie: Spolupráca s Katedrou fyziky na FEI a Katedrou stavebnej fyziky na SF je v oblasti merania termofyzikálnych parametrov stavebných materiálov. Odborným zameraním sa kolektívy navzájom dopĺňajú a tým zabezpečujú požadovanú úroveň spolupráce.

Názov univerzity/vysokej školy a fakulty: Slovenská technická univerzita v Bratislave
Oblasť spolupráce: Ústav jadrového a fyzikálneho inžinierstva
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2011
Zhodnotenie: spolupráca pri odvodzovaní a testovaní modelov pre prechodové metódy na meranie termofyzikálnych vlastností látok

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

6.1.2. Spoločné pracoviská s inými organizáciami SAV

Názov organizácie: Fyzikálny ústav SAV, v. v. i.
Oblasť spolupráce: Výskum vybraných vlastností trvalo udržateľných izolačných materiálov s potenciálom využitia v drevostavbách.
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2021
Zhodnotenie: Sme spoluriešiteľmi VEGA projektu č. 1/0714/21: Výskum vybraných vlastností trvalo udržateľných izolačných materiálov s potenciálom využitia v drevostavbách. Doteraz boli pomocou prechodových metód vyšetrené vlastnosti objemových drevín a drevených kompozitov vo forme OSBD dosiek. Kompozitné materiály boli vyrobené z drevenej štiepky drevín pomaranču, duba, a ich zmesi vo verzii vysokej a strednej hustoty. Ďalšie vzorky vo výskume boli vyrobené z materiálov masívneho dreva: céder, topoľ a jelša. Termofyzikálne vlastnosti boli vyšetrované pomocou impulznej a skokovej prechodovej metódy. Na vyhodnotenie boli použité modely zohľadňujúce okrajové rušivé efekty odvodu tepla z povrchu vzorky s presnou geometriou v tvare kvádra a doskový model s vplyvom efektu kontaktového tepelného odporu a tepelnej kapacity zdroja tepelného impulzu. Doskový model s vplyvom tepelnej kapacity zdroja tepla a koeficientu prestupu tepla medzi zdrojom tepla a vzorkou bol overený na laboratórnom štandarde získanom z laboratória PTB.

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

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

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

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

Názov projektu: Monitorovanie teplotno- vlhkostného režimu veže katedrále sv. Martina v Bratislave
Agentúra:
číslo projektu:
Spolupracujúce inštitúcie: Arcibiskupský úrad, Bratislava
Koordinátor projektu:
Začiatok spolupráce: 2011
Zhodnotenie: Pripravujú sa spoločné projekty s Pamiatkovým úradom ktoré zabezpečia finančný efekt pre FÚ a zároveň umožnia nadviazať užšie kontakty s organizáciami zaoberajúcimi sa ochranou pamiatok a majiteľmi pamiatkových objektov. (kontakt FÚ: J. Hudec)

Názov projektu: Grant Nadácie ESET
Agentúra: ESET, spol. s r.o.
číslo projektu:
Spolupracujúce inštitúcie: ESET, spol. s r.o.
Koordinátor projektu: Martin Venhart, FÚ SAV, v. v. i.
Začiatok spolupráce: 2022
Zhodnotenie: Nadácia ESET sa rozhodla podporiť výskum skupiny M. Venharta v oblasti izotopov zlata s nepárnym hmotnostným číslom. Urobila tak na základe dobrého hodnotenia návrhu ERC grantu. Cieľom podpory je vypracovanie nového návrhu ERC Advanced grantu. Podpora základného výskumu súkromnou spoločnosťou je v slovenských podmienkach pomerne výnimočný počin.

Názov projektu: Laboratórne merania termofyzikálnych vlastností hornín
Agentúra:
číslo projektu:
Spolupracujúce inštitúcie: Geologische Bundesanstalt Wien v spolupráci so Štátnym geologickým ústavom Dionýza Štúra
Koordinátor projektu:
Začiatok spolupráce: 2017
Zhodnotenie: Merania v rámci zákazky.Projekt má priniesť poznatky pre budovanie obnoviteľných zdrojov energie v zemskom podloží spôsobom plytkých geotermálnych vrtov. Štatisticky budú zmapované oblasti v strednej Európe.

Názov projektu: Monitorovanie teplotno-vlhkostného režimu pilierov kostola sv. Jakuba v Levoči
Agentúra:
číslo projektu:
Spolupracujúce inštitúcie: Katedra inžinierskej geológie, Univerzita Komenského, Bratsialva
Koordinátor projektu:
Začiatok spolupráce: 2012
Zhodnotenie:

Názov projektu: Monitorovanie tuhnutia betónových zmesí
Agentúra:
číslo projektu:
Spolupracujúce inštitúcie: Technický a skúšobný ústav stavebný, n.o. Bratislava
Koordinátor projektu:
Začiatok spolupráce: 2010

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

Názov projektu: Laboratórne merania termofyzikálnych vlastností hliníkovej peny.
Agentúra:
číslo projektu:
Spolupracujúce inštitúcie: Ústav materiálov a mechaniky strojov, SAV
Koordinátor projektu:
Začiatok spolupráce: 2017
Zhodnotenie: Podaný APVV projekt. Merania boli vykonané za účelom predbežne zhodnotiť prínos termofyzikálnych meraní pre spôsob aplikácie hliníkovej peny vyplnenej PCM pre možnosti uskladnenia teplenej energie.

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

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	12	tlač	8	TV	10
rozhlas	6	internet	7	exkurzie	1
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	2				

7.2. Vedecko-organizačná činnosť

Tabuľka 7b Vedecko-organizačná činnosť

<table>
<tr><th>Názov podujatia</th><th>Domáca/ medzinárodná</th><th>Miesto</th><th>Dátum konania</th><th>Počet účastníkov</th></tr>
<tr><td>ISTROS 2023 – Isospin, STructure, Reactions and energy Of Symmetry</td><td>medzinárodná</td><td>Častá-Papiernička, Slovensko</td><td>14.5.-19.5.2023</td><td>50</td></tr>
<tr><td>2023 "Flat Earth" Superconductivity Miniworkshop</td><td>medzinárodná</td><td>Bratislava, Slovensko</td><td>8.6.-9.6.2023</td><td>25</td></tr>
<tr><td>APCOM 2023 – Applied Physics of Condensed Matter</td><td>medzinárodná</td><td>Štrbské Pleso, Slovensko</td><td>21.6.-23.6.2023</td><td>-</td></tr>
<tr><td>CEQIP |202?|++> – Central European Quantum Information Processing</td><td>medzinárodná</td><td>Smolenice, Slovensko</td><td>5.9.-8.9.2023</td><td>-</td></tr>
<tr><td>SURFINT-SREN VIII – Progress in Applied Surface, Interface and Thin Film Science</td><td>medzinárodná</td><td>Bratislava, Slovensko</td><td>20.11.-23.11.2023</td><td>-</td></tr>
</table>

7.3. Účasť na výstavách

7.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 7c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Spolu	-	-	-

7.5. Členstvo v redakčných radách časopisov

Ing. Vlastimil Boháč, CSc.

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

Prof. RNDr. Vladimír Bužek, DrSc.

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)

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)

Mgr. Andrej Gendiar, PhD.

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)

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

V roku 2023 sa naši študenti a pracovníci zapájali do popularizácie vedy v mnohých oblastiach. Prehľad ich výstupov spolu s odkazmi na mediálne výstupy je k nahliadnutiu na našej webstránke **„My v médiách“** (https://fu.sav.sk/verejnost/my-v-mediach/).

V stručnosti spomenieme najvýznamnejšie podujatia. Pri oslavách 70 rokov založenia SAV, bol náš tím mladých pracovníkov prítomný počas **Víkendu SAV** 23. – 24. júna 2023 na námestí pred Euroveou. Tím pracoval v zložení: Adriana Annušová, Anna Kálosi, Denisa Lampášová, Andrej Liptaj, Simon Mičky, Andrej Špaček, Karol Végsö, Mário Ziman, organizáciu zabezpečovali Monika Bírová a Vladimír Held. Návštevníkom a záujemcom o fyziku v našom stánku demonštrovali vedecké expozície a praktické ukážky z pripravených exponátov. **Na Európskej noci výskumníkov** 29. 9. 2023 prezentovali niektorí z nich taktiež vedecký stánok Hra svetla.

V rámci podujatia Týždeň vedy a techniky na Slovensku, 6. — 12. 11. 2023 FÚ SAV, v. v. i. zorganizoval vlastný **„(Týž)Deň otvorených dverí na FÚ SAV 2023“** určený širokej verejnosti, ale najmä študentom stredných a vysokých škôl. Aktivita zahŕňala prednášky a návštevy špecializovaných laboratórií. DOD sa odohrával z časti v online priestore, kde boli verejnosti dopredu ponúknuté témy prednášok. Prednášky prebiehali na pôde Fyzikálneho ústavu, online a tiež formou návštevy na školách. Celkom sa uskutočnilo 10 osobitných prednášok našich pracovníkov na témy
Erik Bartoš: „Ako nám urýchľovače častíc uľahčujú život“
Monika Bírová: „Rádioaktivita okolo nás“
Andrej Liptaj: „Magnetická rezonancia“
Andrej Liptaj: „Fyzika hudby“
Martin Plesch: „Ako veci fungujú“
Kamil Tokár: „Sila gravitácie“

Podujatia DOD sa zúčastnili žiaci zo škôl v Bratislave a Novej Bane, prišli aj žiaci zo Vzdelávacieho centra v Stupave. Jednotlivcom boli prezentované prednášky podľa ich výberu a absolvovali návštevu laboratórií.

Do prehliadok laboratórií bolo zapojené Oddelenie multivrstiev a nanoštruktúr a Oddelenie fyziky kovov, menovite kolegyne a kolegovia Adriana Annušová, Naďa Mrkývková, Irena Gejdoš Janotová, Dušan Janičkovič, Peter Švec. Koordinátormi DOD boli Erik Bartoš a Andrej Liptaj.

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
RNDr. Stanislav Hlaváč, CSc.	Rada Úradu jadrového dozoru SR	člen rady
prof. Ing. Štefan Luby, DrSc.	Zbor expertov MŠVVŠ SR pre Horizont Európa	Expert pre program civilnej bezpečnosti
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
Doc. RNDr. Martin Plesch, PhD.	Štátny tajomník Ministerstva školstva SR	Poradca
Ing. Peter Švec, DrSc.	Atestačna 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

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
- podpredsedníčka Snemu SAV

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

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	17	15	2	6	5	1
2. Projekty APVV	12	9	3	10	9	1
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	2	1	1	0	0	0
4. Projekty SASPRO, MoRePro, IMPULZ	1	1	0	0	0	0
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	1	1	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	1	1	0	1	1	0
2. Projekty ERA.NET, ESA, JRP	0	0	0	2	2	0
3. Projekty COST	1	1	0	1	1	0
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	0	1	1	0
5. Projekty v rámci medzivládnych dohôd	1	1	0	2	2	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	0	0	0

10.2.2. Výskum zameraný na rodovú problematiku

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

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

Uveďte stručné, základné informácie k problematike.

11. Organizačné a právne zmeny v organizácii

11.1. Informácie o vnútorných organizačných zmenách

Zmenou Pracovného a Organizačného poriadku sa vedúci oddelení stali vedúcimi zamestnancami. V súlade so zákonom č. 552/2003 Z. z. (Zákon o výkone práce vo verejnom záujme) prebehli výberové konania na jednotlivé pozície vedúcich a následne boli menovaní vedúci oddelení.

Uveďte stručné, základné informácie k problematike.

11.2. Zmeny zakladacej listiny, vnútorných predpisov organizácie alebo zakladateľa

Ku dňu 27. novembra 2023 bol vydaný dodatok č. 2 ku zakladacej listine z dôvodu zmeny číselníkov odborov, v ktorých je uskutočňovaný výskum vedy a techniky.

Bolo aktualizované znenie Pracovného a Organizačného poriadku, pôvodne iniciované pripomienkami Vedeckej rady a neskôr doplnené pripomienkami Dozornej rady. Okrem iného sa v nich upresnili pozície vedúcich oddelení ako vedúcich zamestnancov.

Nové verzie dokumentov sú prístupné na webovom sídle organizácie.

Uveďte stručné, základné informácie k problematike.

12. Činnosť knižnično-informačného pracoviska organizácie

12.1. Knižničný fond

Tabuľka 12a Knižničný fond

Knižničné jednotky spolu		9605
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		12
v tom	kúpou	12
	darom	
	výmenou	
	bezodplatným prevodom	
	náhradou	
Úbytky knižničných jednotiek		
Knižničné jednotky spracované automatizovane		1390

*Výraz **„v tom“** označuje <u>úplné (vyčerpávajúce) údaje</u>, ktorých súčet sa musí rovnať údaju v riadku „spolu“, čiže nadradenému riadku.*
*Výraz **„z toho“** označuje <u>neúplné (výberové) údaje</u>, ktorých súčet sa nemusí rovnať údaju v riadku „spolu“.*

12.2. Výpožičky a služby

Tabuľka 12b Výpožičky a služby

Výpožičky spolu (riadok 1)		397
v tom z r. 1	prezenčné výpožičky	322
	absenčné výpožičky	
v tom z r. 1	odborná literatúra pre dospelých	75
	výpožičky periodík	
MVS iným knižniciam		3
MVS z iných knižníc		
MMVS iným knižniciam		
MMVS z iných knižníc		5
Počet vypracovaných bibliografií		

Počet vypracovaných rešerší	2

12.3. Používatelia

Tabuľka 12c Používatelia

Registrovaní používatelia	109
Návštevníci knižnice spolu (bez návštevníkov podujatí)	98

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 €	1404

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 plánujeme identifikovať slabé a silné stránky ústavu. Jednotlivými radami ústavu budú vypracované príslušné smernice a vypracované body akčného plánu.

14.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

V r. 2023 sme pokračovali v napĺňaní hlavných bodov akčného plánu činnosťami:

- Prijali sme osem 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.
- Prebehlo výberové konanie na ústavom financovanú pozíciu „IP SAS Fellow“ a pracovník nastúpil v priebehu roka na oddelenie jadrovej fyziky.
- Na základe vypracovej smernice, boli koncom roka 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. V tomto roku nám pomohlo štipendium pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine.
- Pokračujeme v získavaní finančných prostriedkov z projektov z národných zdrojov (VEGA, APVV, Impulz). Zapojili sme sa do výziev Plánu obnovy: Štipendiá pre excelentných PhD. študentov (R1) a Štipendiá pre výskumníkov (R2 - R4).

14.3. Aktualizácia Akčného plánu organizácie v roku 2023

Počas roka nedošlo k novej aktualizácii akčného plánu, avšak Vedecká rada ústavu sa všeobecne zhodla na zriadení pracovnej skupiny pre vypracovanie Strategického a Akčného plánu FÚ SAV, v. v. i. V spolupráci s vedením ústavu a vedúcimi zamestnancami pripraví návrhy, ktoré budú slúžiť ako podklady nových dokumentov.

15. Iné významné činnosti organizácie SAV

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

Dátum podania	Meno žiadateľa	Vyžiadaná informácia a spôsob jej poskytnutia	Forma prijatia	Výsledok a spôsob vybavenia žiadosti
15.5.2023	doc. RNDr. Martin Plesch, PhD.	Poskytnutie zápisnice z rokovaní DR FÚ SAV, v. v. i. v roku 2022 a 2023 – zaslať formou elektronickej schránky	Elektronická schránka	Formálne bola vybavená

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

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

Uveďte informácie a podnety v súlade s názvom kapitoly.

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

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

Vedecká rada FÚ SAV, v. v. i. kladne hodnotí výsledky získané na pôde Fyzikálneho ústavu FÚ SAV, v. v. i. v uplynulom roku a konštatuje jej spôsobilosť naďalej vykonávať výskumnú činnosť.

Schválila vedecká rada organizácie SAV dňa 26.1.2023

Mgr. Erik Bartoš, PhD.
predseda vedeckej rady

Výročnú správu o činnosti organizácie za rok 2023 vypracoval(i):

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

Bratislava, 15.2.2024

Doc. Mgr. Mário Ziman, PhD.
riaditeľ organizácie

PRÍLOHY k časti A

Príloha A-1

Zoznam zamestnancov a doktorandov organizácie k 31.12.2023

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.	60	0.60
9.	RNDr. Eva Majková, DrSc.	25	0.38
10.	RNDr. Miroslav Nagy, DrSc.	20	0.20
11.	Prof. Yuriy Plevachuk, DrSc.	100	0.81
12.	RNDr. Ladislav Šamaj, DrSc.	100	1.00
13.	Dr. Rer. Nat. Peter Šiffalovič, DrSc.	70	0.70
14.	prof. Ing. Ivan Štich, DrSc.	20	0.20
15.	Ing. Peter Švec, DrSc.	100	1.00
Vedúci vedeckí pracovníci CSc., PhD.			
1.	Gilberto Ferreira Borges, PhD.	100	0.38
2.	Mgr. Andrej Gendiar, PhD.	100	1.00
3.	RNDr. Stanislav Hlaváč, CSc.	50	0.00
4.	Doc. Mgr. Taras Kavetskyy, PhD.	100	0.33
5.	Saeid Salari, PhD.	100	0.00
6.	Ing. Matúš Sedlák, PhD.	100	0.33
Samostatní vedeckí pracovníci			
1.	MSc. Djeylan Vincent Ceylan Aktas, PhD.	100	1.00
2.	Mgr. Adriana Annušová, PhD.	50	0.60
3.	Mgr. Erik Bartoš, PhD.	100	1.00
4.	Ing. Vlastimil Boháč, CSc.	100	1.00
5.	RNDr. Beata Butvinová, CSc.	100	1.00
6.	Mgr. Peter Filip, PhD.	20	0.20

7.	Ing. Irena Gejdoš Janotová, PhD.	100	0.75
8.	Mgr. Seyed Arash Ghoreishi, PhD.	100	0.67
9.	Ing. Štefan Gmuca, CSc.	70	0.70
10.	RNDr. Katarína Gmucová, CSc.	100	1.00
11.	Mgr. Andrej Herzáň, PhD.	100	1.00
12.	RNDr. Monika Hofbauerová, PhD.	70	0.70
13.	RNDr. Pavol Kalinay, CSc.	100	1.00
14.	Mgr. Roman Krčmár, PhD.	100	1.00
15.	Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.	100	1.00
16.	RNDr. Lubomir Martinovič, CSc.	20	0.20
17.	RNDr. Igor Maťko, CSc.	100	1.00
18.	Ing. Vladislav Matoušek, CSc.	100	1.00
19.	RNDr. Marek Mihalkovič, CSc.	100	1.00
20.	RNDr. Naďa Mrkývková, PhD.	70	0.70
21.	Ing. Vojtech Nádaždy, CSc.	100	1.00
22.	Mgr. Daniel Nagaj, PhD.	33	0.33
23.	Mgr. Pavol Neilinger, PhD.	20	0.20
24.	RNDr. Emil Pinčík, CSc.	100	1.00
25.	RNDr. Matej Pivoluska, PhD.	50	0.13
26.	Doc. RNDr. Martin Plesch, PhD.	100	1.00
27.	RNDr. Anton Repko, PhD.	100	1.00
28.	Mgr. Michal Sedlák, PhD.	100	1.00
29.	Ing. Mgr. Peter Staňo, PhD.	20	0.20
30.	RNDr. Ondrej Šauša, CSc.	100	1.00
31.	Ing Peter Švec Jr., PhD.	100	0.75
32.	Ing. Igor Travěnec, CSc.	100	1.00
33.	RNDr. Robert Turanský, PhD.	80	0.80
34.	Mgr. Karol Végsö, PhD.	90	0.90
35.	Mgr. Martin Venhart, PhD.	50	0.50
36.	Ing. Viliam Vretenár, PhD.	33	0.33
37.	Doc. Mgr. Mário Ziman, PhD.	100	1.00
Vedeckí pracovníci			
1.	RNDr. Róbert Brunner, CSc.	100	1.00
2.	Mgr. David Davalos Gonzalez, PhD.	100	0.64
3.	Ing. Yuriy Halahovets, PhD.	100	1.00
4.	Ing. Ján Hudec, PhD.	34	0.34

5.	Ing. Anna Kálosi, PhD.	30	0.60
6.	Doc. Mgr. Denis Kochan, PhD.	100	1.00
7.	Ing. Pavol Konopka, PhD.	100	1.00
8.	Ing. Mário Kotlár, PhD.	15	0.15
9.	Mgr. Natalia Salomé Móller, PhD.	100	1.00
10.	Mgr. Peter Nádaždy, PhD.	50	0.40
11.	Mgr. Peter Rapčan, PhD.	100	1.02
12.	Ing. Jaroslav Rusnák, PhD.	100	1.19
13.	Ing. Vladimír Štofanik, PhD.	25	0.25
14.	Mgr. Rupali Tiwari, PhD.	5	0.05
15.	RNDr. Kamil Tokár, PhD.	30	0.38
16.	Dr. Sebastian Vielhauer, PhD.	100	1.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Poongodi Ayyanusamy	5	0.00
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. Gulnur Kantay	5	0.01
7.	Mgr. Ivan Klbik	5	0.05
8.	Mgr. Ivan Andreevič Kovalev	100	0.07
9.	Ing. Dušan Lacko	25	0.23
10.	doc. Ing. Peter Lacko, PhD.	25	0.23
11.	Mgr. Denisa Lampášová	5	0.05
12.	Mgr. Nikolas Masničák	5	0.01
13.	Mgr. Ijaz Ahamed Mohammad	5	0.05
14.	Matej Moško, MPhil	5	0.02
15.	Ing. Muhammad Arslan Raza	5	0.02
16.	MSc. Ricardo Rivera Cardoso	0	0.00
17.	Mgr. Soham Sau	5	0.04
18.	MSc. Nana Siddhartha Yenamandala	100	0.53
19.	Mgr. Shima Sousani	5	0.05
20.	MSc. Nidhin Sudarsanan Ragini	100	0.53
21.	Mgr. Iryna Timchenko Prihodko, PhD.	100	1.00
22.	Mgr. Daniel Truchan	5	0.05
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			

1.	Mgr. Radka Hovorková	100	0.17
2.	Ing. Jana Kováčová	100	1.00
3.	Ing. Bc. Mária Lindorová	25	0.25
4.	Ing. Denisa Melíšková	100	0.33
5.	Bc. Simon Mičky	20	0.60
6.	Mgr. Katarína Slezáková	100	1.00
7.	Ing. Beata Solčianska	100	1.00
8.	Mgr. Angelika Winczerová	100	1.00
Odborní pracovníci ÚSV			
1.	Silvia Bačová	100	1.00
2.	Michal Halász	100	1.00
3.	Emília Hoffmannová	100	1.00
4.	Jana Koláriková	100	1.00
5.	Marian Markovič	100	1.00
6.	Ivan Sabo	60	0.60
7.	Oľga Švančarová	70	0.70
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.	RNDr. Miroslav Nagy, DrSc.	31.12.2023	0.20
Vedeckí pracovníci			
1.	Ing. Pavol Konopka, PhD.	31.12.2023	1.00
2.	Mgr. Ján Škoviera, PhD.	30.6.2023	0.50
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	MSc. Faizan Ahmad	30.4.2023	0.01
2.	Mgr. Muhammad Faraz Ud Din	31.7.2023	0.10
3.	Mgr. Vladimír Held	31.10.2023	0.33
4.	Mgr. Farnoush Salehtash	31.10.2023	0.20
5.	Mgr. Andrej Špaček	31.8.2023	0.03
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Lenka Kabátová	31.8.2023	0.33

2.	Ing. Lingraj Kumar	30.6.2023	0.17
Odborní pracovníci ÚSV			
1.	Rebeca Dávid	30.6.2023	0.05
2.	Monika Rácová	31.1.2023	0.08
Ostatní pracovníci			
1.	Mgr. Ivana Šebestová	14.5.2023	0.24

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.	Mgr. Gulnur Kantay	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
7.	Mgr. Ivan Klbik	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
8.	Mgr. Denisa Lampášová	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
9.	Mgr. Mumtaz Manzoor	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
10.	Mgr. Nikolas Masničák	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
11.	Mgr. Ijaz Ahamed Mohammad	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
12.	Mgr. Jaroslav Pavličko	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika
13.	Mgr. Eva Pospíšilová	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika
14.	MSc. Samgeeth Puliyil	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
15.	MSc. Ricardo Rivera Cardoso	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
16.	MSc. Wahid Shariff Saadat Salman Shariff	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
17.	Mgr. Farnoush Salehtash	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
18.	Mgr. Soham Sau	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
19.	MSc. Nana Siddhartha Yenamandala	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika
20.	MSc. Nidhin Sudarsanan Ragini	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika

21.	Mgr. Daniel Truchan	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
22.	MSc. Leonardo Viana Dias	Slovenská technická univerzita v Bratislave	2675 elektrotechnika
Interní doktorandi hradení z iných zdrojov			
1.	MSc. Ardra Ajitha Vijayan	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
2.	Mgr. Ivan Kovalev	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
3.	Matej Moško	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
4.	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: Medzivládna dohoda

1.) Cieľový projekt — Fundamental Interactions of Fields and Particles *(Fundamental Interactions of Fields and Particles)*

Zodpovedný riešiteľ:	Stanislav Dubnička
Trvanie projektu:	1.7.2017 / 31.12.2023
Evidenčné číslo projektu:	01-3-1135-2019/2023
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Spojený ústav jadrových výskumov v Dubne
Počet spoluriešiteľských inštitúcií:	1 - Rusko: 1
Čerpané financie:	-

Dosiahnuté výsledky:
Spolupráca SR a SÚJV, Dubna je pozastavená.

2.) Cieľový projekt — Research on Relativistic Heavy and Light Ion Physics. Experiments at the Accelerator Complex Nuclotron/NICA at JINR and CERN SPS *(Research on Relativistic Heavy and Light Ion Physics. Experiments at the Accelerator Complex Nuclotron/NICA at JINR and CERN SPS)*

Zodpovedný riešiteľ:	Štefan Gmuca
Trvanie projektu:	1.1.2009 / 31.12.2023
Evidenčné číslo projektu:	02-1-1087-2009/2023
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Rusko: 1
Čerpané financie:	-

Dosiahnuté výsledky:
Spolupráca SR a SÚJV, Dubna je pozastavená.

3.) Cieľový projekt — Synthesis and Properties of Superheavy Elements, Structure of Nuclei at the Limits of Nucleon Stability *(Synthesis and Properties of Superheavy Elements, Structure of Nuclei at the Limits of Nucleon Stability)*

Zodpovedný riešiteľ:	Ján Kliman
Trvanie projektu:	1.1.2009 / 31.12.2023
Evidenčné číslo projektu:	03-5-1130-2017/2023
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Spojený ústav jadrových výskumov v Dubne

Počet spoluriešiteľských inštitúcií:	1 - Rusko: 1
Čerpané financie:	-

Dosiahnuté výsledky:
Spolupráca SR a SÚJV, Dubna je pozastavená.

Programy: COST

4.) 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: 2500 €

Dosiahnuté výsledky:
V roku 2023 sme zlepšili naše odborné znalosti pri sledovaní uhlíkových látok na vzorkách pomocou skenovacej infračervenej optickej mikroskopie v blízkom poli (SNOM). Pomocou tejto techniky je možné merať FTIR spektrá s priestorovým rozlíšením až do 20 nm. Okrem toho môžeme mapovať priestorové rozloženie rôznych molekulových vibrácií naladených na unikátnu absorpčnú čiaru v infračervenej oblasti pri súčasnom skenovaní vzorky. Tento prístup môže výrazne prispieť k lepšej lokalizácii rôznych druhov uhlíka pri veľmi nízkych koncentráciách.

5.) 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 inštitúcií:	0
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 2500 €

Dosiahnuté výsledky:
V roku 2023 sme sa zamerali na sledovanie vplyvu povrchovo aktívnych látok na báze uhlíka, ktorými sú obalené nanočastice Au. Vykonali sme in-situ experimenty maloúhlového rozptylu röntgenového žiarenia priamo v Langmuirovom korýtku s monovrstvou Au nanočastíc. Po výmene molekúl povrchovo aktívnej látky sme sledovali zmenu medzičasticovej vzdialenosti v reálnom čase. Táto štúdia má význam pre vývoj plazmonicky aktívnych nanoštruktúr, ktoré sa môžu v

budúcnosti využiť v optoelektronike.

Programy: NATO

6.) Secure Communication via Classical and Quantum Technologies *(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: 6860 €

Dosiahnuté výsledky:

Programy: Bilaterálne - iné

7.) 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: 24800 €

Dosiahnuté výsledky:
V roku 2023 sme sa podieľali na vývoji efektívneho výrobného postupu na dosiahnutie perovskitového obrazového čipu s vysokým rozlíšením, ktorý je kľúčový pre veľké zariadenia s flexibilnými obrazovými snímačmi. V tejto štúdii bolo demonštrované vysoké rozlíšenie a stabilné 10 × 10 flexibilné pole fotodetektora založené na formamidíniovom (FA+) a fenylmetylamóniovom (PMA+) kvázi-2D (PMA)2FAPb2I7 (n = 2) perovskite pomocou vývoja procesu hydrofóbnej a hydrofilnej úpravy s asistenciou SiO2 na PET substráte. Inkorporácia nanočastíc Au (Au NPs) zlepšila kvalitu perovskitového filmu a znížila počet hraníc zŕn. Mechanizmus, ktorým Au NPs zlepšujú fotoelektrickú kvalitu perovskitu, sa odhalil najmä pomocou optickej emisnej spektroskopie (GD-OES) a širokouhlého RTG rozptylu (GIWAXS). Na ďalšie zlepšenie fotoelektrických vlastností zariadení sa použila stratégia následnej úpravy chloridom formamidínia (FACl).

8.) 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 2023 sme sa zamerali na zlepšenie účinnosti konverzie energie (PCE) perovskitových solárnych článkov (PSC) pomocou nízkorozmerných MXénov. Vyššia PCE u PSC s ETL SnO2 modifikovanou MXénom je výsledkom dvoch efektov - zvýšenej elektrickej vodivosti modifikovanej ETL (elektrónovej transportnej vrstvy) a jej lepšej kryštalinity v zmysle väčšej veľkosti zŕn, čo znižuje celkovú plochu rozhrania a rekombináciu náboja v pascových stavoch vytvorených na hraniciach zŕn. Steady state a časovo rozlíšená fotoluminiscencia tiež naznačujú efektívnejší transport elektrónov k ITO elektróde v ETL SnO2 modifikovanej MXénom.

Programy: ERANET

9.) Kvantové technolólgie založené na supraindukovanej ultrasilnej väzbe *(Superinductor-based Quantum Technologies with Ultrastrong Couplings)*

Zodpovedný riešiteľ:	Miroslav Grajcar
Trvanie projektu:	1.4.2020 / 31.7.2023
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Barcelona Supercomputing Center
Počet spoluriešiteľských inštitúcií:	4 - Nemecko: 2, Francúzsko: 1, Taliansko: 1
Čerpané financie:	-
	Podpora medzinárodnej spolupráce z národných zdrojov: 6864 €

Dosiahnuté výsledky:

10.) Z vesmíru do laboratória: vývoj nového typu permanentných magnetov na báze fázy L10-FeNi *(From the Cosmos to the Lab: Development of the L10-FeNi Phase as a Disruptive Permanent Magnet Alternative)*

Zodpovedný riešiteľ:	Peter Švec
Trvanie projektu:	1.10.2020 / 31.12.2023
Evidenčné číslo projektu:	nepridelené
Organizácia je koordinátorom projektu:	nie
Koordinátor:	IMDEA Nanociencia, Madrid
Počet spoluriešiteľských	2 - Španielsko: 2

inštitúcií:
Čerpané financie: MVTS SAV: 18750 €
Podpora medzinárodnej spolupráce z národných zdrojov: 18750 €

<u>*Dosiahnuté výsledky:*</u>
Na základe experimentov a predselekcie z predošlej etapy riešenia sme sa spoločne s partnerom IMDEA Nanociencia zamerali na prípravu a skúmanie systmému (FeNi)-P13C7 a jeho modifikácie bez obsaku uhlíka. Pomocou rýchleho ochladenia taveniny sme pripravili sériu zložení s obsahom fosforu 20, 17 a 14 at. % pri zachovaní ekviatomárneho pomeru Fe a Ni. Zmapovali sme vývoj štruktury pri kryštalizácii z amorfného stavu v závislosti od teploty, času a typu žíhania a z jednotlivých oblastí fázových zmien sme vybrali najperspektívnejšie režimy termomagnetického spracovania. Paralelne so štruktúrnou analýzou vrátane detailnej analýzy a prvkového mapovania a chemického usporiadania na atomárnej úrovni sme v spolupráci s ÚEF SAV zmerali relevantné magnetické parametre vzoriek. Na práci sa aktívne spolupracovali s partnerom IMDEA (dlhodobý viacnásobný pobyt doktoranda z IMDEA na našom pracovisku), ktorý zabezpečil štruktúrnu analýzu na synchrotróne Alba. Parciálne výsledky z výskumu v oblasti permanentných magnetov bez strategických prvkov sme prezentovali na konferenciách (1 pozvané keynote prednáška – konf. HighMatTech-2023, 2 pozvané prednášky – konf. RQ17, konf. ICSM 2023 a poster – APCOM 2023 zameraný na systém AlMn).

Programy: Horizont 2020

11.) Targeting Real chemical accuracy at the EXascale *(Targeting Real chemical accuracy at the EXascale)*

Zodpovedný riešiteľ:	Ivan Štich
Trvanie projektu:	1.6.2021 / 30.9.2023
Evidenčné číslo projektu:	952165
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

<u>*Dosiahnuté výsledky:*</u>

Programy: Mobility

12.) 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:
V tomto roku sme sa sústredili na odlaďovanie depozičných parametrov pre rast tenkých hybridných perovskitových vrstiev FAMAPbI. Rast perovskitových vrstiev sme následne skúmali pomocou RTG difrakčných metód (GIWAXS) a fotoluminiscencie (PL). Kombinácia týchto dvoch rozličných metód umožnila sledovať zmeny optoelektronických ako aj štrukturálnych/kryštalografických vlastností. Namerané výsledky sme diskutovali s partnermi z Fyzikálneho ústavu AV ČR, ktorí majú neporovnateľne väčšie skúsenosti s analýzov PL spektier ako naša skupina. Spoločne sme dáta analyzovali, pričom sa nám podarilo určiť hodnotu Urbachovej energie počas rastu hybridných tenkých perovskitových vrstiev.

Získané výsledky boli zaslané do vedeckého časopisu Adv. Energy Materials (momentálne v recenznom riadení), opublikované v 3 CC článkoch a prezentované na medzinárodných konferenciách PSCO 2023 a HOPV 2023 v UK a na domácej konferencii NFA 2023 v Košiciach.

Programy: Horizont Európa

13.) Slovenská kvantová 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: 485841 € Podpora medzinárodnej spolupráce z národných zdrojov: 485841 €

Dosiahnuté výsledky:

Domáce projekty

Programy: VEGA

1.) Návrh a optimalizácia biokonjugačných stratégii inovatívnych 2D fototermálnych nanomateriálov s tumor-navádzajúcimi peptidmi

Zodpovedný riešiteľ:	Adriana Annušová
Zodpovedný riešiteľ v organizácii SAV:	Adriana 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: 4761 €

Dosiahnuté výsledky:
V roku 2023 sme sa zaoberali aplikovaním rôznych konjugačných stratégii na MoOx nanočastice a ich štúdium pomocou pokročilých analytických a zobrazovacích techník. Pokračovali sme v príprave MXene fliačkov vhodných rozmerov, na báze Ti3C2 and V4C3, na základe zavedeného postupu ich delaminácie.
Bol opublikovaný článok v ACS Omega a prezentované príspevky (5) na konferencii Nanotech Poland 2023.

2.) 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: 6007 €

Dosiahnuté výsledky:
Zaoberali sme sa skúmaním tlmených oscilujúcich štruktúr, ktoré boli nedávno odhalené trojparametrickou formulou z protónových „efektívnych“ údajov pre formfaktory extrahované z nameraného celkového účinného prierezu anihilácie elektrónov a pozitrónov na pár protón-antiprotón. Dohady o ich priamom prejave kvark-gluónovej štruktúry pre protón naznačujú, že nie sú špecifické len pre protón a neutrón, ale majú byť vlastné aj ostatným hadrónom. Preto existuje možnosť, že použitím podobnej procedúry ako v prípade protónov, môžu byť tieto štruktúry nájdené aj u iných hadrónov. V súbore prác sme sa venovali ich objasneniu a prípadnému potvrdeniu v prípade nabitých a neutrálnych K-mezónov ako aj nabitých piónov. Výsledky indikujú, že spomenuté oscilujúce štruktúry sú len artefaktom použitej parametrizácie a nemôžu popísať namerané údaje s dostatočnou presnosťou.
V prehľadovom príspevku bol súhrnne prezentovaný kovariantný kvarkový model a prehľad jeho aplikácií pri popise vybraných rozpadových procesov B mezónov v troch kategóriách: leptónových, semileptónových a non-leptónových procesoch.
Výsledky boli publikované v troch publikáciách a v dvoch príspevkoch na konferenciách.

3.) 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 SAV: 14017 €

Dosiahnuté výsledky:
Vyvinuli sme mnohostavový spinový model tenzorovej siete, v ktorom sa realizuje anizotropná deformácia spinových interakcií. Definovali sme transformáciu 6-stavového clock modelu, pri ktorej dochádza k postupnému zoslabovaniu fázových prechodov nekonečného rádu v trikritickom bode. Ukázali sme zánik fázové prechody nekonečného rádu s postupnou zmenou na nespojitý prechod prvého rádu. Klasifikovali sme triedu univerzality trikritického bodu a načrtli možné scenáre vzniku fázových prechodov tretieho a vyššieho rádu. Model s anizotropnou deformáciou ponúka špecifický pohľad na tri základné typy fázových prechodov a je motiváciou pre experimentálne merania [Physica A 624 (2023) 128907].

Určovanie globálnych a lokálnych vlastností fyzikálnych systémov je základnou vlastnosťou analýzy rôznych systémov (materiálov). Zamerali sme sa na netriviálne vlastnosti fraktálnych štruktúr, kde lokálne merania vedú k diametrálne odlišným výsledkom. Použili sme tzv. „automatickú diferenciáciu“ tenzorovej siete, v ktorej sme zadefinovali spôsob globálneho merania magnetizácie. Na tejto fraktálnej štruktúre sme veľmi presne klasifikovali triedu univerzality [Phys. Rev. E 107 (2023) 044108].

4.) Jadrová štruktúra v okolí uzavretých protónových vrstiev *(Nuclear structure in the vicinity of the closed proton shells)*

Zodpovedný riešiteľ:	Andrej Herzáň
Trvanie projektu:	1.1.2021 / 31.12.2023
Evidenčné číslo projektu:	2/0067/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 23778 €

Dosiahnuté výsledky:
Nosné experimenty v zahraničí (JYFL, Fínsko) boli úspešne zrealizované. Analýzou dát z experimentu JR151 sme potvrdili správnosť de-excitačnej schémy pre nízko ležiace rotačné štruktúry v Bi-191 ako aj existenciu 13/2+ izoméru vrátane jeho charakteristík. Dôležitým výsledkom je identifikácia kandidáta na nový izomérny stav so spinom a paritou 29/2- a dobou polpremeny ~500 ns v Bi-191. V rámci experimentu M20 zameraného na štúdium izomérnych stavov v izotope Au-179u bol vyvinutý ToF systém pod našim vedením, v spolupráci s FMFI UK, a bol využitý na potlačenie pozadia a identifikáciu žiarenia pochádzajúceho z krátko žijúcich izomérnych stavov. O.i., sme identifikovali nové rozpadové vetvy 2.2 μs izoméru a objavili nový izomér. Súvisiacim výsledkom je schválenie dvoch experimentov programovou komisiou JYFL, Fínsko v celkovej dĺžke tri týždne zväzkového času.

V roku 2023 sme na Oddelení jadrovej fyziky FÚ SAV, v. v. i., realizovali R&D nového modulu elektronického adaptéra na konverziu signálov z kremíkových drift detektorov (SDD) s resetovacím predzosilňovačom na impulzy podobné ako z konvenčných germániových detektorov typu HPGe, REGe. Tieto moduly boli skonštruované pre účely výskumného projektu s mionickými zväzkami pod názvom muX v Inštitúte Paula Scherrera (PSI) vo Villigene, Švajčiarsko. Moduly boli úspešne otestované a následne použité v troch po sebe idúcich experimentoch v PSI.

Na domácom pracovisku v Piešťanoch boli vyriešené všetky technické výzvy. Bol skonštruovaný goniometer na meranie uhlových rozdelení a lineárnej polarizácie emitovaných gama kvánt ako aj teleskopický kremíkový detektor pre účely meraní v domácom laboratóriu. Ďalší vývoj v súvislosti s konštrukciou plynového terča viedol k úspešnej realizácii niekoľkých meraní, vrátane zahraničnej kolaborácie a schváleniu nového APVV projektu pre aplikovaný výskum.

Vylepšenie programov na výpočty excitovaných stavov pomocou Skyrme QRPA v sférických a axiálne-deformovaných jadrách, ktoré boli použité v nedávnych publikáciách na porovnanie a interpretáciu experimentálnych dát o E0, E1 a M1 excitáciách.

Počas riešenia projektu boli školení 3 bakalári (1 x Ž, 2 x M; doteraz obhájení: 2) , 4 diplomanti (3 x Ž, 1 x M; doteraz obhájené: 2) a 5 doktorandi (2 x Ž, 3 x M; doteraz obhájení: 2) a 1 post-doc.

Počas celého riešenia projektu bolo opublikovaných 18 prác kat. ADC (z toho 5 v r. 2023), 2 konferenčné príspevky a jedna publikácia kat. ADC je aktuálne v tlači.

5.) 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: 6756 €

Dosiahnuté výsledky:
V súlade s harmonogramom projektu sme počas druhého roku riešenia projektu pokračovali vo výskume antimikrobiálneho efektu MoOx nanočastíc a 2D MXenes nanočastíc na báze Ti3C2 v kombinácii s monoterpenoidovými zlúčeninami - thymol a carvacrol (nanokonjugáty) voči vybraným druhom baktérií. Antimikrobiálnu aktivitu sme monitorovali v podmienkach in vitro na baktérie Escherichia coli a S.aureus pomocou disk-difúznych testov citlivosti mikroorganizmov ako aj antibiofilmovej aktivity -inhibícia rastu buniek mikrobiálneho biofilmu. Pre MXény sme zaznamenali nízku inhibíciu rastu buniek narozdiel od MoOx nanočastíc, kde sme zaznamenali významnú inhibíciu rastu buniek. Z tohto dôvodu sme ďalej nepokračovali s monitorovaním antimikrobiálnej aktivity na MXénoch. Zamerali sme sa na iný druh 2D nanomateriálu- MoS2 nanočastice. Stanovili sme vhodnú koncentráciu monoterpenoidových zlúčenín pre prípravu nanokonjugátov s nanočasticammi MoOx a MoS2. Na základe in vitro testov sme monitorovali antimikrobiálny efekt nanočastíc a nanokonjugátov priamo na povrchu substrátu- mäkké a tvrdé drevo (dub a smrekovec). Pre zvýšenie antimikrobiálneho efektu nanomateriálu sme povrch substrátu vystavili pôsobeniu lasera s vlnovou dĺžkou 808 nm na vyvolanie fototermálneho efektu nanočastíc. Termo-kamerou sme sledovali nárast teploty povrchu materiálu a vplyv teploty na mikrobiálnu aktivitu [Molecules 28 (2023) 1018].

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: 3721 €

Dosiahnuté výsledky:
Chemoodporové senzory plynov a pár a inteligentné senzorové nano-polia (tiež elektronické nosy) majú vysoký aplikačný potenciál v miniaturizácii zariadení [11th Int. Conf. ADEPT]. Napríklad detektor stopových koncentrácií acetónových pár by pacientom s diabetes umožňoval samostatné monitorovanie ich zdravotného stavu.
Napriek množstvu študovaných systémov detegovaný plyn/senzor (obvyklým aktívnym prvkom senzoru sú nano-štruktúrované tenké filmy na báze polovodivých oxidov kovov), neexistuje experimentálne overený konsenzus o mechanizme detekcie, t. j. príčiny zmeny odporu senzora. Navrhli sme a vykonali in-operando štúdiu pomocou röntgenovej absorpčnej spektroskopie [10.1016/j.tsf.2023.140120] skúmajúcu chemickú štruktúru nanočastíc oxidu železa (NPs) vystavených stopovým koncentráciám pár acetónu, čiže pri reálnych pracovných podmienkach senzora. Zistili sme, že NPs oxidu železa boli čiastočne redukované, pričom z redukcie vyplývajúca zmena povrchovej výstupnej práce bola identifikovaná ako určujúci faktor pre zmenu odporu, ktorý sa v nano-štruktúrovanom filme riadi tunelovacím mechanizmom vodivosti. Výsledok je v rozpore so štandardným pohľadom na mechanizmus detekcie, ktorý zmenu odporu vysvetľuje ako dôsledok vzniku oblastí priestorového náboja v samotných zrnách tenkého filmu.

7.) Efekty v priestorovo ohraničených difúznych systémoch *(Effects in spatially confined diffusion systems)*

Zodpovedný riešiteľ:	Pavol Kalinay
Trvanie projektu:	1.1.2021 / 31.12.2023
Evidenčné číslo projektu:	2/0044/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 2002 €

Dosiahnuté výsledky:
Metóda dimenzionálnej redukcie Fokker-Planckovej rovnice v 2D kanáli s premennou šírkou 2h(x) na pozdĺžnu súradnicu x bola aplikovaná na systém s Janusovou časticou, t.j. poháňanou konštantnou silou f pôsobiacou náhodným smerom, daným difúzne rotujúcou časticou. Vhodné škálovanie priečnych koordinát y a uhla smeru hnacej sily nám umožnilo odvodiť 1D Fick-Jacobsovu rovnicu, rozšírenú priestorovo závislým difúznym koeficientom D(x) a efektívnym potenciálom -gamma(x), počítanými rekurzívne v malom škálovacom parametri. Tieto veličiny priamo určujú celkový tok častíc cez kanál, a tak umožňujú analyticky študovať ozubnicový (ratchet) efekt. V nami uvažovanom systéme vzniká pre asymetrické funkcie h(x); usmernený prúd klesá monotóne s kvadrátom pomeru translačnej a rotačnej difúznej konštanty. Výsledky sú publikované vo Phys. Rev. E.

8.) Metóda prípravy vzoriek pre IBA a XRF aplikácie

Zodpovedný riešiteľ:	Ján Kliman
Trvanie projektu:	1.1.2021 / 31.12.2023
Evidenčné číslo projektu:	2/0181/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 3504 €

Dosiahnuté výsledky:

9.) Vplyv zabudovania MXénov do perovskitových solárnych článkov Effect of incorporation of MXenes in the perovskite solar cells *(Effect of incorporation of MXenes in the perovskite solar cells)*

Zodpovedný riešiteľ:	Eva Majková
Trvanie projektu:	1.1.2021 / 31.12.2023
Evidenčné číslo projektu:	2/0046/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 7343 €

Dosiahnuté výsledky:
Skúmali sme rozhranie elektrónovej transportnej vrstvy a perovskitu, ktoré významne ovplyvňuje funkcionalitu perovskitového solárneho článku. Pozorovali sme nárast perovskitových zŕn, ktoré rástli na vrstve SnO2 modifikovanej MXénmi. Zatiaľ nebol navrhnutý žiadny podrobný mechanizmus vysvetľujúci tento efekt. S cieľom analyzovať účinok modifikácie SnO2 ETL MXénmi na kryštalizáciu perovskitovej vrstvy deponovanej na ETL v reálnom čase, sme monitorovali kryštalizáciu počas žíhania perovskitovej vrstvy hneď po depozícii metódou in situ GIWAXS. Analýzy GISAXS potvrdili pozitívny efekt prítomnosti MXénov v SnO2 vrstve na veľkosť perovskitových zŕn. Časovo rozlíšené merania GIWAXS naznačujú, že prítomnosť MXénov v SnO2 vrstve spomaľuje kryštalizáciu a má za následok väčšie kryštalické zrná perovskitu.
Boli analyzované a sumarizované základné aspekty organických vodivých polymérov ako elektród pre organickú a hybridnú elektroniku,
V rámci projektu vznikli 3 CC publikácie.

10.) 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	áno

koordinátorom projektu:	
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 2669 €

Dosiahnuté výsledky:

11.) 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: 3472 €

Dosiahnuté výsledky:
Výskum sme zamerali na príčinu vysokej účinnosti organických solárnych článkov na báze zmesi PM6:Y6 (takmer 20%). Metódou energeticky rozlíšenej elektrochemickej impedančnej spektroskopie (ER-EIS) sme analyzovali distribúciu hustoty transportných stavov elektrónov a dier v čistých vrstvách PM6 a Y6, ako aj ich zmesi. Výsledky ukázali, že Coulombova väzbová energia generovaného elektrón-dierového páru v zmesi je ?150 meV. To je menej o 250 meV od očakávanej hodnoty. Komplementárne simulácie odhalili, prečo je teplotná závislosť foto-disociácie zanedbateľná a neodráža skutočnú väzbovú energiu. Dôvodom je fakt, že disociácia páru elektrón-diera v neusporiadanom systéme je viackrokový proces, ktorého aktivačná energia je o rád nižšia od väzbovej energie. Okrem toho, samotný proces prebehne skôr, ako stihnú stavy prenosu náboja zrekombinovať.
Na solárnych článkoch PM6:Y6 sme taktiež skúmali tepelne indukovanú degradáciu, ktorá sa prejavuje zmenšením napätia naprázdno a faktora plnenia. Zistili sme, že tieto nežiadúce efekty sú spôsobené poklesom disociácie párov elektrón-diera a účinnosti odvodu náboja k elektródam. Merania ER-EIS ukázali, že tepelne degradované vzorky majú vyššiu energetickú bariéru pre konverziu stavov prenosu náboja do stavu separovaných nosičov náboja.
Vyšetrovali sme štrukturálne defekty a vplyv substrátu na tvorbu defektných stavov v zakázanom páse malomolekulárneho polovodiča typu n (TNT-FEC), syntetizovaného na PF UK. Pomocou výpočtov DFT a DFTB sme analyzovali možnosť prítomnosti konformérov, ktoré môžu ovplyvňujú štrukturálne vlastnosti tenkých vrstiev tohto polovodiča.

Výsledky boli publikované v 3 CC časopisoch a 1 zborníku z konferencie.

12.) 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: 3721 €

Dosiahnuté výsledky:

13.) 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: 8760 €

Dosiahnuté výsledky:
V rámci projektu bol zaslaný jeden článok na publikovanie, na ďalších sa priebežne pracuje.

14.) 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: 900 €

Dosiahnuté výsledky:

15.) Štatistická mechanika klasických coulombovských systémov

Zodpovedný riešiteľ:	Ladislav Šamaj
Trvanie projektu:	1.1.2021 / 31.12.2023
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno

Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 5006 €

Dosiahnuté výsledky:
Venovali sme sa hľadaniu základného stavu rovnakých nábojov medzi rovnobežnými platňami nabitými asymetricky homogénnym povrchovým nábojom. V predchádzajúcich spoločných prácach s francúzskymi a rakúskymi kolegami bolo ukázané, že náboje vytvárajú na platniach rôzne periodické ako aj neperiodické štruktúry s podozrením na kvázikryštály s pentagonálnou symetriou. Použitá počítačová metóda "učenie bez dozoru", ktorá je súčasťou širšieho spektra metód umelej inteligencie, nám umožnila odhaliť z obrovského množstva dát nové štruktúry na povrchoch platní.

Ďalej sme študovali základný stav častíc lokalizovaných v uzloch 3D mriežok, interagujúcich cez coulombovský, zovšeobecnený Rieszov a Lennard-Jonesov potenciál. Použili sme pritom nami rozvíjané analytické metódy sumovania cez mriežkové body pomocou integrálov caz Jacobiho theta funkcie.. Boli nájdené nové fázové prechody prvého a druhého druhu medzi 3D mriežkami pri spojitej zmene hustoty častíc.

Práce sme publikovali v 2 CC časopisoch.

16.) 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: 2769 €

Dosiahnuté výsledky:
Dokončila sa štúdia týkajúca sa návrhu nového kryoprezervačného protokolu pre zmrazovanie ľudských kožných buniek, ktorý by bol alternatívou pre klasický prístup využívajúci pomalé zmrazovanie a dimetylsulfoxid vnikajúci do vnútra buniek. Alternatívou bolo rýchle zmrazovanie s využitím polyetylénglykolu, ktorý nepreniká do buniek. Kryoprotektívny potenciál polyetylénglykolu bol preverený metódami diferenčnej kompenzačnej kalorimetrie, pozitrónovej anihilácie, optickej kryomikroskopie a Ramanovej spektroskopie. Výsledky týchto analýz potvrdili, že polyetylénglykol dostatočne potláča tvorbu ľadu, zamedzuje eutektickej kryštalizácii solí a vytvára stabilnú mikroštruktúru ľadu – čo je obzvlášť dôležité kritérium vzhľadom vysokú rýchlosť chladenia počas zmrazovania týmto novým kryoprezervačným protokolom. Ukázalo sa, že tento nový prístup má aplikačný potenciál keď analýza životaschopnosti buniek po ich rozmrazení ukázala podobnú úspešnosť medzi novým a štandardným prístupom. Praktický význam nového prístupu spočíva v jeho jednoduchosti keď zmrazovanie je vykonané priamym ponorením buniek do tekutého dusíka narozdieľ od potreby kontrolovaného chladenia v prípade štandardného protokolu. Ďalšou výhodou je jednoduchšie odstraňovanie polyetylénglykolu z buniek/bunkového média po rozmrazení – nakoľko polyetylénglykol neprechádza do vnútra buniek, jeho odstránenie je jednoduchšie s čím súvisí aj nižšie riziko osmotického zranenia buniek v týchto procedúrach

[Journal of Molecular Liquids].

Započala sa ďalšia štúdia [Cryobiology], ktorá sa zaoberala mechanizmom kryozranenia ľudských červených krviniek, ku ktorému dochádza počas pomalého zmrazovania – a sú potrebné vysoké koncentrácie kryoprotektívnej látky, typicky glycerol, na jej minimalizovanie.
Bolo ukázané, že experimentálne pozorovaný jav hromadenia soli vo vnútri buniek je možné vysvetliť aktiváciou iónových membránových transportných mechanizmov, ktoré sú prirodzene prítomné v plazmatickej membráne. Bolo tiež ukázané, že takto nahromadená soľ spôsobuje osmotickú lýzu buniek keď sú vrátené do izotonického média (v resp. sú rozmrazené z pohľadu samotného zmrazovania). Toto vysvetlenie je jedným z mála pokusov o inkorporáciu perspektívy bunkovej fyziológie do kryobiológie, a ukazuje sa, že má potenciál vysvetliť osmotické správanie širokej škály rôznych typov buniek. Práca bola opublikovaná v časopise Cryobiology.
V oblasti správania sa uväznených kvapalín bola navrhnutá a vykonaná štúdia ohľadom fázového správania vody a jej binárnych zmesí s dimetylsulfoxidom, formamidom a chloridom sodným. Bolo ukázané, že tieto zmesi možno rozdeliť do dvoch kategórií: organických (formamid, dimetylsulfoxid) a tých obsahujúcich soľ (NaCl). Tieto dve triedy binárnych zmesí vykazujú rozličné fázové správanie v uväznení na škále 4 až 8 nm cylindrických pórov matrice pozostávajúcej z SiO2. Na základe termoanalytickej a mikroštruktúrnej analýzy pomocou metód diferenčnej kompenzačnej kalorimetrie a pozitrónovej anihilačnej spektroskopie sa ukázalo, že NaCl indukuje väčší pokles bodu mrazu oproti čistej vode v rovnakom uväznení ako organické molekuly, s čím súvisí aj menšie množstvo ľadu v tuhej fáze. Tento jav bol vysvetlený hypotézou o preferenčnej interakcii medzi povrchom steny póru, ktorý je pokrytý hydrofilnou silanolovou funkčnou skupinou (Si-OH), a organickými molekulami.

17.) Nízko-dimenzionálne materiály- manipulácia, funkcionalizácia a bioaplikácie: LOW-D-MATTER

Zodpovedný riešiteľ:	Ivan Štich
Zodpovedný riešiteľ v organizácii SAV:	Ivan Štich
Trvanie projektu:	1.1.2021 / 31.12.2025
Evidenčné číslo projektu:	2/0070/21
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav informatiky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 5757 €

<u>*Dosiahnuté výsledky:*</u>
Bola opublikovaná vedecká práca v Science Advances, venovaná problematike jednoatómovej katalýze aktivovanej hrotom.

18.) 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: 2400 €

Dosiahnuté výsledky:
S cieľom overenia spevňujúceho efektu spojov bezolovnatých spájok typu SAC305 primiešaním uhlíkových nanosfér a nanorúrok sme pripravili spájku s aditivami týchto nanoobjektov. Nanoobjekty sme pre zvýšenie zmáčavosti spájkou čiastošne pokryli naprášenými vrstvami Au-Pd a Pt v špeciálne upravenom naprašovacom zariadení. Spojové páry Cu/spájka+nanoaditív/Cu sme okrem prirodzeného starnutia pri izbovej teplote vystavili aj teplote pod čiarou fázového prechodu Sn – viacmesačná expozícia pri teplote 253 K. Pomocou mechanických testov a štruktúrnej analýzy rezov spojov sme korelovali vývoj mikroštruktúry a morfológie fáz rozhrania spájka-Cu s mechanickými vlastnosťami, ukázali sme na rozdiely v morfológii rozhrania pri nízkych teplotách oproti spojom držaným pri izbovej teplote (publikácia v Applied Nanoscience, pozvaná "keynote" prednáška na konferencii HighMatTech-2023).

19.) 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: 17728 €

Dosiahnuté výsledky:
Preskúmali sme účinnosť metódy stredne rýchleho izotermického žíhania (jednotky až desiatky sekúnd) na zníženie koercivity v materiáloch s vysokou hodnotou magnetizácie v nasýtení na báze Fe-Cu-B-P-Si a Fe(Co)SnBP. 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 (publikácia v J. Magn. Magn. Mater.).

V sérii prác 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. V rozsiahlej práci (Phys. Rev. B) sme skúmali pomocou DFT 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 zanedbatelne malý. Pozorovania sa podarilo vysvetliť modelom aproximantov klatrátu a zobecniť ho.

Rozvinuli sme metodiku selekcie zložení a prípravy vysokoentropických zliatin 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 legovaním inými atómami kovov. Ukázali sme, že je možné získať monofázové viaczložkové zliatiny v širšom koncentračnom intervale použitých prvkov (prednáška FEMS EUROMAT, poster RQ17).

Intenzívne sme v spolupráci preskúmali vysokoentropické systémy karbidov a boridov najmä s ohľadom na ich lokálne chemické a fázové zloženie. Naše výsledky chemického usporiadania na atomárnej úrovni poskytli informacie o variácii lokálneho chemického obsadzovania elementárnej bunky a pripelo k objasneniu unikátnych vlastností takýchto keramík (publikácie v . Int J Appl Ceram Technol., Advances in Applied Ceramics a pod.).

20.) Štúdium nízkomolekulových \pi-konjugovaných derivátov tiofénu vhodných ako organické polovodiče

Zodpovedný riešiteľ:	Kamil Tokár
Trvanie projektu:	1.1.2021 / 31.12.2023
Evidenčné číslo projektu:	2/0055/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 686 €

Dosiahnuté výsledky:
Počas tretieho roka riešenia sme pokračovali v štúdiu chemických postupov syntéz pre malé organické molekuly na báze tiazolo[5,4-d]tiazolov so spirobifluorénovými skupinami (SBF). Bola navrhnutá trojkroková organická syntéza séria tiazolo-tiazolov, molekúl s bipolárnym elektrónovo-dierovým charakterom (e-h). Pripravené molekuly sú plne ?-konjugované, čím je zabezpečená podmienka prekrytia hraničných molekulových orbitálov (FMO). Nové zlúčeniny vykazujú potrebné elektronické vlastnosti s energetickými medzerami ležiacimi v intervale 2.5–3.0 eV. Tieto relatívne malé molekuly sa zároveň vyznačujú dobrou tepelnou stabilitou.
Štruktúra molekúl pozostáva z centrálneho tiazolo[5,4-d]tiazolu ako akceptora (A) a terminálnych spirobifluorénych skupín (SBF) ako donora (D) elektrónov. Obidve časti sú prepojené tiofénovým π-linkerom čím tvoria D- π-A jednotky. Boli nasyntetizované dva typy elektrónovo-dierových transportných vrstiev (ETL/HTL) symetrický s dvomi SBF skupinami a asimetrický s jednou SBF v molekule. Tieto boli integrované ako emisné layere v laboratórne pripravenej OLED (organická dióda) štruktúre. Meraním ich elektroluminiscenčných vlastností sa zistilo, že oblasť ich svetelnej emisie spadá vlnovými dĺžkami do žltozelenej oblasti spektra.
Elektroluminiscenčný prvok (EL) obsahujúci asymetrický komponent s jednou SBF koncovou skupinou vykazuje lepšie opto-elektronické charakteristiky v zmysle elektroluminiscenčnej intenzity pri 16 V, externej kvantovej účinnosti (EQE) a napokon maximálnej svietivosti pri hraničnom napätí 12 V. Navrhnuté tiazolo[5,4-d]tiazolové struktúry SBF takto predstavujú potenciál pri vývoji nových nízkohmotnostných a plne organických dopantov pre elektroluminiscenčné prvky. Vrstvy na báze takýchto malých organických molekúl predstavujú oveľa lacnejšiu analógiu organo-kovových derivátov v EL prvkoch, pričom ich východiskové látky sú zároveň relatívne lacné a ľahko dostupné.

V teoretickej a modelovacej časti boli pomocou DFT a hybridných DFT metód s lokalizovanými

gaussovskými bázami simulované vlnové funkcie na single thiazol-thiazolových molekulách s rovnovážnymi geometriami. Boli vyprojektované ich hraničné molekulárne orbitály FMO, energetické hladiny a určené energetické medzery. DFT/TPSSh vypočítané polohy hladín HOMO/LUMO sa kvalitatívne zhodujú z nameranými pomocou cyklickej voltampérmetrie a sú posunuté ~0.5 eV k vyšším hodnotám. Vypočítané energetické medzery (Egap) zodpovedajú polohám experimentálne stanovených UVvis absorbčných maxím.
Experimentálne a simulačne interpretované výsledky z tejto etapy projektu boli odprezentované v 1 karentovanej publikácii, 4 medzinárodných konferenčných príspevkoch a 1 popularizačnej prednáške.

21.) Výskum vybraných vlastností trvalo udržateľných izolačných materiálov s potenciálom využitia v drevostavbách *(Research of selected properties of sustainable insulating materials with the potential for use in wooden buildings)*

Zodpovedný riešiteľ:	Viliam Vretenár
Trvanie projektu:	1.1.2021 / 31.12.2023
Evidenčné číslo projektu:	1/0714/21
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Katedra fyziky, elektrotechniky a aplikovanej mechaniky, Drevárska fakulta, Technická univerzita, Zvolen
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	VEGA SAV: 2414 €

<u>*Dosiahnuté výsledky:*</u>
Výskum bol orientvaný na výskum tepelných vlastností drevených kompozitných mateiálov vo forme drevotrieskových dosiek. Na meranie boli použité prechodové metódy. Pomocou impulznej prechodovej metódy boli zmerané vlastnosti drevotrieskových dosiek na báze tureckého dubu a mixu štiepky pomarančovníka a buku. Vzorky boli pripravané s vysokou a strednou hustotou. Ďalšiou metódou bola Transient Plane Source ktorou sme vyšetrovali vzorku vyrobenú z 500rokov starého jedľového dreva. Táto vzorka bola vyrobená v tvare kociek čo umožnilo meranie vo všetkých troch smeroch anizotropie, teda v pozdĺžnom, priečnom a radiálnom smere. Merania potvrdili anizotropiu a rozdiel v pozdĺžnom smere voči ostatným bol až 30%.

Na vyhodnotenie meraní impulznou prechodovou metódou bol použitý kvádrový model zohľadňujúci okrajové rušivé efekty odvodu tepla z povrchu vzorky v laterálnom smere s presnou geometriou v tvare kvádra. Bol analyzovaný vplyv rôzneho výkonu impulzu aj pomocou koeficientov citlivosti. Výsledkom je poznatok že s rastúcou energiou impulzu narastá citlovsť meraní na jednotlivé parametre a teda aj pokles neurčitosti stanovenia voľných parametrov modelu. Avšak ďalším rušivým efektom je vplyv nerovnosti na rozhraniach jednotlivých častí zostavy vzorky. V tomto prípade sa jedná o tepelný odpor vzduchových medzier na rozhraniach . Zvyčajne sa rieši pomocou koeficientu pretupu tepla cez rozhrania, ale nanešťastie v prípade kádrového modelu nie je zohľadnený a preto spôsobuje efekt, ktorého veľkosť nevieme odhadnúť. Koeficient prestupu tepla je navyše teplotne závislý a jeho vplyv narastá so zvyšovaním energie impulzu a teda nárastom teploty na rozhraní zdroja tepla a vzorky a spôsobuje že nemôžeme presne nafitovať teplotnú odozvu na impulz. Preto pre tento typ meraní musíme optimalizovať experiment tak, že znížime energu impulzu za cenu zvýšenia veľkosti neurčitosti odhadu parametrov.

V prípade nerovných povrchov boli merania v na energii impulzov značne ovplyvnené popísaným efektom a hodnoty parametrov vykazovali značný rozptyl. Pri meraní vzorky dubu s vysokou hustotou kde boli povrchy rovné sa uvedený efekt neuplatnil a rozptyl dát zodpovedal bežnej

štatistickej chybe merania. V tomto prípade stanovené hodnoty parametrov neboli závislé na výkone impulzu, čo zodpovedá aj teroretickému predpokladu.
Výsledky výskumu boli publikované v 3 článkoch ktoré vyšli v r. 2023 (ELVYS). Ďalšie 2 články boli úspešne prijaté do zborníka z 28. medzinárodného stretnutia termofyziky 2023 a budú publikované v priebehu roka 2024 v AIP (American Institute of Publishing).

22.) Vysokovýkonná zakrivená röntgenová optika pripravená pokročilou technológiou nanoobrábania *(High-performance curved X-ray optics prepared by advanced nanomachining technology)*

Zodpovedný riešiteľ:	Zdenko Zápražný
Zodpovedný riešiteľ v organizácii SAV:	Matej Jergel
Trvanie projektu:	1.1.2021 / 31.12.2023
Evidenčné číslo projektu:	2/0041/21
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 4199 €

Dosiahnuté výsledky:
Pokračovali sme vo vývoji metódy SPDT pre prípravu presných zakrivených povrchov RTG optiky. Zamerali sme sa na zvýšenie presnosti tvaru konkávnych a konvexných Al foriem rôzneho polomeru ladením parametrov nanoobrábania. Presnosť tvaru a kvalitu povrchu sme merali hrotovou a optickou profilometriou, pričom nameraný profil bol porovnaný s teoretickou krivkou pre nominálny polomer. To umožnilo identifikovať lokálne odchýlky od ideálneho tvaru a poskytlo spätnú väzbu pre úpravu technológie. V najlepších prípadoch dosahovala lokálna odchýlka 0.1 mm pri polomere zakrivenia 1 m. Dosiahnuť túto presnosť na celej dĺžke profilu presiahne časový rámec projektu.
Výstupy - 2 publikácie v časopisoch WOS

23.) 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: 27524 €

Dosiahnuté výsledky:
Zaoberali sme sa geometrickému rozlišovaniu kvantových stavov, problému experimentálneho určenia popisu výsledkov merania s neoznačenými výsledkami a sekvenčnej realizácii kvantových inštrumentov.

Programy: APVV

24.) 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 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: 906 €

Dosiahnuté výsledky:
Cieľom tohto bilaterálneho projektu je syntetizovať a zistiť biologický osud a terapeutickú využiteľnosť multimodálnych nanokomplexov oxidu železa a molybdén oxidu. V prvej etape riešenia projektu sme aplikovali Konfokálnu Ramanovú mikroskopiu bez použitia fluorescenčných značiek na fixované bunky hMSC a MCF7, inkubované po dobu 1 až 21 dni s rôznymi koncentráciami solí železa (zdroj FeOx nanočastíc v bunke cez biosyntézu) a železooxidovými nanočasticami (Fe2O3 - maghemite), ktoré boli dodané partnerskou organizáciou Institut Curie, Paris. Následne sme študovali biosyntézu respektíve biodegradáciu železooxidových nanočastíc na základe Ramanových spektier. Okrem toho, sme sa zaoberali zvýšením internalizácie MoOx nanočastíc do rakovinových buniek, pomocou biomolekúl (Annušová et al 2023 v ACS Omega).

25.) 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 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 roku 2023 sme sa bližšie zamerali na vlastnosti Ti3C2 a V4C3 MXene nanomateriálov, pred a po delaminácii. Ďalej sme charakterizovali ich fototermálne a SERS vlastnosti a zmeny vo fyzikálno-chemických vlastnostiach po funkcionalizácii biomolekulou selektívnou na hypoxický nádor. Takisto sme navrhli nekonvenčnú metódu, jednomolekulárnu silovú spektroskopiu (SMFS – Single Molecule Force Spectroscopy), na vyhodnotenie afinity špecifickej protilátky CAIX (M75) v rôznych typoch buniek. Testovali sme SMFS s Bruker Multimode8 AFM doplneným tekutou celou na popísanie väzby antigén-protilátka. Vyvinuli sme náš vlastný softvér (v Labview) na vyhodnotenie disociácie väzby antigén-protilátka a testovali sme ho na väzbe avidín-biotín. Hroty AFM boli funkcionalizované biotínom a vrstva avidínu bola pripravená na substráte Mica.

Výsledky opublikované v [10.1021/acsomega.3c01934] a prezentovaná na konferencii Nonotech 2023 boli v súlade s publikovanými údajmi a náš softvér bol efektívnym nástrojom pri triedení silových kriviek.

26.) 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: 16390 €

<u>*Dosiahnuté výsledky:*</u>
Práce na projekte v rámci roku 2023 primárne spadali do riešenia prvej etapy s názvom Návrh a realizácia radiačného tienenia laboratória v Piešťanoch. Z dostupnej dokumentácie lineárneho tandemového urýchľovača bol vypracovaná definícia zjednodušeného geometrického a materiálového modelu. Následne boli tieto údaje prevedené do syntaxe a štruktúry vhodnej pre simulačnú sekvenciu MAVRIC, ktorá je súčasťou systému ORNL SCALE. Relevantná časť práce bola venovaná aj výpočtovému určeniu anizotropie D(d,n)3He reakcie v plynovom terči.
V Urýchľovačovom laboratóriu Fyzikálneho ústavu SAV, v. v. i., bolo uskutočnených niekoľko aktivít s cieľom zabezpečiť plynulú a bezpečnú prevádzku počas budúcich experimentov. Tieto spočívali v optimalizácii iónového zdroja pre produkciu zväzku deuterónov a optiky urýchľovačovej trasy pre ich dopravenie k plynovému terču. Druhou nosnou časťou prác bol vývoj flexibilnejšieho plynového terča s účelom produkcie rýchlych neutrónov v reakcii D(d,n)3He. Výsledky boli opublikované v 1 ADC publikácii.

27.) 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: 3187 €

<u>*Dosiahnuté výsledky:*</u>
Prvý polrok aktivity podľa plánu. Výsledky neboli plánované.

28.) Cielený dizajn hydrogélových mikrokapsúl pre imunitnú ochranu pankreatických ostrovčekov v liečbe cukrovky *(Rational design of hydrogel microcapsules for immunoprotection* *of transplanted pancreatic islets in diabetes treatment)*

Zodpovedný riešiteľ:	Igor Lacík
Zodpovedný riešiteľ v organizácii SAV:	Peter Šiffalovič
Trvanie projektu:	7.1.2019 / 30.6.2023
Evidenčné číslo projektu:	APVV-18-0480
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav polymérov SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 3048 €

Dosiahnuté výsledky:
V spolupráci s Ústavom polymérov sme vylepšili softvér na spracovanie profilov hustoty polymérnych kapsúl z konfokálnej Ramanovej mikroskopie. Toto zlepšenie pravdepodobne urýchli optimalizáciu vlastností kapsúl pre biomedicínske aplikácie.

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

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

Dosiahnuté výsledky:
Prostriedky na mobilitu využité na spoluprácu u partnera.

30.) Molekulárne nanoštruktúry na dvojdimenzionálnych substrátoch *(Molecular nanostructures on two-dimensional substrates)*

Zodpovedný riešiteľ:	Naďa Mrkývková
Trvanie projektu:	1.4.2021 / 30.12.2023
Evidenčné číslo projektu:	SK-AT-20-0006
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Rakúsko: 1
Čerpané financie:	APVV: 2500 €

Dosiahnuté výsledky:
Pokračovali sme v naparovaní organických molekúl - konkrétne pentacénu (PEN), a hybridných perovskitových vrtiev v modifikovanej vákuovej komore. Molekuly PEN sme naparovali na tenké MoS2 vrstvy s rôznou orientáciou atomárnych rovín. Z výskumu realizovaného v predošlých

rokoch vieme, že molekuly PEN sa orientujú rôzne v závislosti na orientácii atomárnych vrstiev substrátu na ktorom rastú. Takto narastené tenké vrstvy PEN s rôznou orientáciu molekúl - s dlhou osou orientovanou v rovine, resp. kolmo na rovinu substrátu - sme využili ako tzv. electron transporting layer (ETL), tj. polovodičovú vrstvu s funkciou zberu elektrónov a blokovania transportu dier k susediacej elektróde. Takéto ETL vrstvy sú nevyhnutné v solárnych článkoch na báze perovskitov. Na vrstvy PEN bola následne nadeponovaná tenká vrstva hybridného perovskitu (MAPbI). Naša depozičná komora umožňuje naparovanie viacerých materiálov súčasne, preto bolo možné perovskitovú vrstvu rásť priamo na vrstvu PEN, bez nutnosti transferu vzoriek, poprípade vystaveniu vzoriek kyslíkovej atmosmére.
Našim cieľom bolo sledovať štruktúrne a optoelektronické vlastnosti PEN aj MAPbI vrstvy, s dôrazom na to, či orientácia PEN molekúl ovplyvní vlastnosti perovskitovej vrstvy. Za týmto účelom sme využili metódy RTG difrakcie (GIWAXS, GISAXS) a fotoluminiscencie (PL). Namerané dáta v súčasnosti vyhodnocujeme a prvotné výsledky naznačujú že orientácia PEN molekúl neovplyvňuje štruktúrne vlastnosti, konkrétne orientáciu atomárnych rovín perovskitu.

V spolupráci so skupinou Prof. Keckesa (Univerzita Leoben) sme sa sústredili na štúdium stresu v FAMAPbI perovskitových vrstvách. Na charakterizáciu procesu rastu a odhalenie štruktúrnych vlastností, v reálnom čase sme použili simultánne merania GIWAXS a PL. Vysoká kvalita narastenej perovskitovej vrstvy bola potvrdená prítomnosťou Laueho oscilácií, ktoré sa počas depozície vyvinuli v difrakčných mapách. Pozorovali sme, že tvorba perovskitu FAMAPbI sa vyznačuje rozsiahlym posunom polohy PL píku v dôsledku rastu kryštálikov a nemonotónnym priebehom intenzity PL žiarenia. Ako sme zistili, tento nemonotónny vývoj úzko súvisí s morfológiou vrstvy, ktorá následne ovplyvňuje vnútorné napätie/stres. Typický vývoj vnútorného napätia príznačný pre rast Volmerovho-Weberovho typu ponúkol výnimočný pohľad na proces tvorby perovskitovej vrstvy. Najmä pozorovaný prechod zo stavu kompresívneho napätia do stavu ťahového ("tensile") pomohol určiť presný čas koalescencie jednotlivých perovskitových zŕn. Charakter pozorovaného napätia počas rastu perovskitovej vrstvy potvrdil vysvetlenie zhášania PL signálu. Ten sa dá interpretovať zvýšenou neradiačnou rekombináciou na hlbokých defektných stavoch v zakázanom páse, vytvorených na hraniciach zŕn susedných kryštálikov.

Získané výsledky boli spísané do článku "Evolution of defects, morphology, and strain during FAMAPbI3 perovskite vacuum deposition: Insight from in-situ photoluminescence and X-ray scattering " a zaslané do časopisu Advanced Energy Materials.

31.) 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: 28234 €

Dosiahnuté výsledky:
Dosiahnuté výsledky boli publikované v 3 publikáciách [10.1002/solr.202200932, 10.1002/adfm.202304659, 10.1002/admi.202300773] a prezentované na konferenciách PSCO 2023, Oxford, UK, HOPV 2023, Londýn, UK a Novel Materials Fundamentals and Applications (NFA) 2023, Košice, Slovensko.

32.) 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: 19200 €

Dosiahnuté výsledky:

V prvom roku riešenia projektu sme optimalizovali podmienky prípravy batériového článku v usporiadaní medený kolektor / tuhý elektrolyt / kovové lítium. Tento typ článku využívame v elektrochemických experimentoch. Elektrochemická charakterizácia bola zameraná na elektrodepozíciu kovového lítia na medený kolektor v galvanostatickom režime. Cieľom bolo dosiahnuť časovo najdlhšiu depozíciu, ktorú ovplyvňuje prúdová hustota a tlak aplikovaný na článok.
Ďalšou aktivitou bol vývoj dvoch prototypov batériových článkov vhodných pre štúdium elektrodepozície a elektrorozpúštania kovového lítia na kovovom kolektore. Prvý prototyp je vhodný na sledovanie distribúcie stresu v tuho-fázovej batérii v statickom režime ako aj počas cyklovania batérie. Tento prototyp umožňuje merať distribúciu stresu v bočnom priereze batérie. Rôzne vyvíjané verzie boli následne testované v laboratórnych podmienkach (Slovensko, Nemecko DESY). Na základe vyhodnotených údajov budú navrhnuté zmeny dizajnu a zloženia batériového článku. Druhý prototyp je určený na priame sledovanie nukluácie kovového lítia a procesov spojených s jeho elektrodepozícou. Dizajn článku dovoľuje sledovať nukleáciu cez optické sklo na povrchu kovového kolektora. V súčasnosti sa dokončuje technické riešenie a optimalizácia skladania článku.

33.) 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: 29569 €

Dosiahnuté výsledky:

34.) 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: 6551 €

Dosiahnuté výsledky:
Vyvinuli sme operando techniku vysokoenergetickej röntgenovej difrakcie vhodnú na sledovanie fázových zmien a chemo-mechanickych napätí počas prevádzky batérií. Táto technika je obzvlášť vhodná na sledovanie veľkých objemových zmien, ktoré sa očakávajú počas nabíjania a vybíjania v anódach obsahujúcich kremík. Prvé testy sa uskutočnili so synchrotrónovým žiarením v PETRA III v Hamburgu.

35.) Hybridné nízkorozmerné vrstevnaté materiály s novými funkciami *(Hybrid Low Dimensional Layered Materials with new Functionalities)*

Zodpovedný riešiteľ:	Peter Šiffalovič
Trvanie projektu:	1.7.2020 / 31.12.2023
Evidenčné číslo projektu:	APVV-19-0465
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 26645 €

Dosiahnuté výsledky:
Vplyv modifikácie Ti3C2Tx MXénov na elektrónovú transportnú vrstvu (ETL) SnO2 sa skúmal v rozsahu koncentrácií 0-7,4 % hm. MXénu. Zvýšená elektrická vodivosť a elektrónová selektivita pre ETL SnO2 modifikovanú MXénom sa potvrdila až do 1 wt % MXénu. Pri 7,4 % hm. MXénu sa zistilo výrazné potlačenie vlastnosti ETL blokovať diery. Zvýšenie účinnosti konverzie energie zo 17,4 % na 18,3 % základného perovskitového solárneho článku s metylamónium-olovnatým jodidom po modifikácii SnO2 ETL s 0,1 % hmotn. MXénu je dôsledkom dvoch príspevkov - zvýšenej elektrickej vodivosti ETL a zlepšenej kryštalinity a väčšej veľkosti zŕn v porovnaní s čistým SnO2 ETL, čo znižuje celkovú hraničnú plochu a rekombináciu náboja v pascových stavoch, ktoré sa zvyčajne vytvárajú na hraniciach zŕn.

36.) 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	nie

koordinátorom projektu:	
Koordinátor:	Univerzita Komenského v Bratislave - Fakulta matematiky, fyziky a informatiky
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

<u>*Dosiahnuté výsledky:*</u>
V prvej fáze projektu sme prispôsobili optickú profilometriu založenú na interferometrii na báze bieleho svetla na meranie ablačných kráterov po LIBS spektroskopii. Očakávame, že táto technika bude plne k dispozícii v roku 2024 pre potreby projektu na kvantifikáciu ablačných pomerov v experimentoch LIBS.

37.) Metalické 2D dichalkogenidy prechodných kovov: príprava, štúdium vlastností a korelované stavy *(Fabrication, physics and correlated states in metallic 2D transition metal dichalcogenides)*

Zodpovedný riešiteľ:	Peter Šiffalovič
Trvanie projektu:	1.7.2020 / 30.6.2023
Evidenčné číslo projektu:	APVV-19-0365
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 10199 €

<u>*Dosiahnuté výsledky:*</u>
V roku 2023 sme vylepšili našu metodológiu na monitorovanie fázových prechodov nízkorozmerných tenkých filmov pri nízkych teplotách (do 150 K). Na tento účel sme použili komerčne dostupnú nízkoteplotnú celu na meranie nekoplanárnych difrakcií pomocou systému Bruker D8. Publikovanie získaných výsledkov sa očakáva začiatkom roka 2024.

38.) 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: 4173 €

<u>*Dosiahnuté výsledky:*</u>
V prvej polovici projektu sme sa zamerali na korelatívne skúmanie polymérnych kapsúl pomocou konfokálnej laserovej skenovacej mikroskopie a Ramanovej mikrospektroskopie. Vyvinuli sme metodológiu charakterizácie polymérnych kapsúl, ktorá je dôležitá pre ich ďalšie využitie.

39.) 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:
Tenké vrstvy Al_2O_3 pripravené nanášaním po atomárnych vrstvách (atomic layer deposition, ALD) boli využité na ochranu katódy s aktívnym materiálom $LiFePO_4$ a s hrúbkou 70 ?m. Elektrochemické merania nabíjania/vybíjania v konfigurácii s Li anódou (half-cell configuration) ukázali, že pokles kapacity pri vybíjaní prúdom 2 C je kompenzovaný ochrannou ALD vrstvou. Ukazuje sa, že veľmi tenké vrstvy Al_2O_3, pripravené technológiou ALD zabraňujú priamemu kontaktu elektródy s elektrolytom, potláčajú postranné reakcie, zabraňujú rozpúšťaniu materiálu katódy a súčasne vylepšujú transfer Li-iónov cez rozhranie elektródy.

40.) 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: 31800 €

Dosiahnuté výsledky:
V sérii príspevkov sme využili vyvinuté techniky nekonvenčného spracovania nových materiálov pripravených rýchlym ochladením taveniny na cielené riadenie výsledných, najmä štruktúrnych, magnetických, magnetomechanických a chemických vlastností (články v J. Thermal Analysis and Calorimetry, Materials, J. Magn. Magn. Mater., AIP Conf. Proc.). Ukázali sme, že rýchle a ultrarýchle 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, obhájenie dizertačnej práce, Fe-B, a pod., prezentácie na konferenciách, publikácie v J. Magn. Magn. Materials).

Preskúmali sme účinky žíhania v externom magnetickom poli poľa na magnetické vlastnosti, doménovú štruktúru a magnetoimpedančné parametre amorfných a nanokryštalických tenkých pások so zložením $(Fe_3Ni)_{81}Nb_7B_{12}$ (publikácia v Chemosensors). Cieľom týchto experimentov bolo zvýšenie citlivosti GMI charakteristík týchto magneticky mäkkých pások na malé zmeny okolitého magnetického poľa. Výsledky našich experimentov ukázali, že vzorky v nanokryštalickom stave vykazujú podstatne vyššie hodnoty GMI efektu v porovnaní s východiskovým amorfným materiálom. Citlivosť GMI voči aplikovanému poľu bola najvyššia v prípade nanokryštalickej pásky žíhanej v priečnom magnetickom poli kde parameter ? = d(?Z/Z)/dH dosiahol hodnotu 15%/Oe.

K prínosom špičkového významu patrí aj príprava nových typov zliatin a demonštrácia využitia chemickej, fázovej a štruktúrnej analýzy pre stanovenie štruktúry a atomárneho usporiadania takýchto nových materiálov, najmä zliatin s vysokou entropiou, poréznych katalytických systémov ušľachtilých kovov (Pd, Pt a pod.) vzniknutých selektívnym odlegovaním matrice napr. Zn, keramík obsahujúcich vysokoentropické karbidy a boridy kovov, nanosystémoch na báze nanočastíc typu core-shell a pod.

Pre validáciu takejto unikátnej metódy bol ako modelový systém štruktúrnej analýzy so zameraním na detailný popis a určenie lokálneho chemického a fázového zloženia vybraný vysoko-entropický keramický materiál s dvoj-zložkým fázovým zložením. Hlavné zložky systému boli tvorené fázami na báze vysoko-entropického boridu (HEB) a karbidu (HEC). Systém bol chemicky charakterizovaný od mikro až po atomárnu škálu, kde bola jednoznačne potvrdená chemická homogenita rozloženia príslušných prvkov v daných mriežkových systémoch. Štúdium fázových rozhraní jasne poukázalo na prítomnú semi-koherenciu v definovaných orientáciách medzi jednotlivými fázami (HEB a HEC). Na základe výsledkov boli navrhnuté modely distribúcie cudzích prvkov a prímesí na fázových rozhraniach vo forme tenkých temer mono-atomárnych vrstiev alebo zhlukov. Diskutované boli taktiež lokálne narušenia kryštalickej mriežky v oboch systémoch spôsobené variáciou lokálneho chemického obsadzovania základnej kryštalickej bunky. Získané výsledky poskytujú unikátny pohľad nutný na správnu interpretáciu vlastností vlastných pre vysoko-entropické systémy a zároveň potvrdzujú úspešnú validáciu metódy. Táto bola ďalej aplikovaná aj na detailnú analýzu atomárneho usporiadania v konvenčnejších systémoch rýchlochladených zliatin kov-polokov. Získané výsledky boli úspešne prezentované v publikáciách v Journal of the European Ceramic Society, ACS Applied Materials & Interfaces, Journal of Science: Advanced Materials and Devices a vo viacerých konferenčných príspevkoch vrátane pozvaných prednášok.

41.) 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 €

<u>*Dosiahnuté výsledky:*</u>
Preštudovali sme stabilitu fáz v binárnych systémoch Al-Pd, Pd-Mn a Al-Pd a v ternárnom systéme Al-Pd-Mn. Vypočítali sme jednotlivé tvorné entalpie pomocou metódy DFT z prvých princípov.

Vo väčšine prípadov bol zistený súlad medzi vypočítanými a experimentálne stanovenými hodnotami Delta_H. V prípade ternárnych fáz sa zistilo, že žiadna z kryštalických fáz nie je predikovaná ako stabilná fáza. Naopak, v systéme Al-Pd-Mn sa predpokladá, že stabilnejšie sú kvázikryštalické aproximanty. Ide predovšetkým o ikosaedrálne a dekagonálne kvázikryštalické aproximanty (publikácia v RENDICONTI, ďalšie výsledky v pozvanej prednáške ako spoluator a prednáške na konferencii ICQ15).

V rámci projektu bol vytvorený atómový model kvázikryštalického aproximantu epsilon_28 v systéme Al-Pd-Co. Model bol vypočítaný pomocou metódy VASP (Vienna ab initio simulation package). Zistilo sa, že základná bunka epsilon_28 pozostáva z 277 atómov of Al, 84 atómov Pd a 16 atómov Co. Následne boli vypočítané mriežkové parametre a vytvorený štandardizovaný CIF súbor epsilon_28 (publikácia v AIP Conf. Proc.)..

Pomocou modelov rozhrania podrobených ab-initio molekulárnemu dynamickému žíhaniu sme analyzovali a predpovedali koherentosť rozhraní medzi diamantovými a klatrátovými štruktúrami. Ukázali smem že rozhrania sú stabilné až do teplôt, ktoré sa blížia k bodu topenia základných systémov a v niektorých študovaných prípadoch je väzba diamant/klatrát silnejšia ako väzba intraklatrát, ako dokazujú simulované experimenty s trhlinami. Zistili sme, že zložením kalibrované mriežkové párovanie môže stabilizovať dokonca aj metastabilné klatráty ako epitaxne pestované filmy na substráte diamant/zincblende (publikácia v Computational Materials Science).

42.) Vplyv kovových nanočastíc a taviva dopovaného nanočasticami na spájkované spoje medzi bezolovnatými spájkami a kovovými substrátmi *(Impact of metal deposited nanoparticles and the nanoparticle doped flux on solder joints between lead-free solders and metal substrates)*

Zodpovedný riešiteľ:	Peter Švec
Trvanie projektu:	1.2.2022 / 31.12.2023
Evidenčné číslo projektu:	SK-UA-21-0076
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Ukrajina: 1
Čerpané financie:	APVV: 3576 €

Dosiahnuté výsledky:
Preskúmali sme kinetiku rastu intermetalických vrstiev spoja Cu/Sn-3.5Ag s rôznym obsahom keramických nanočastíc ZrO2 pri izbových teplotách a teplotách blízko operačným teplotám spojov (453 K). Ukázali sme, že obsah nanokeramiky do 1 váhového percenta vedie k spomaleniu rastu intermetalických častíc v priestore rozhrania spoja a spájky a k zmene ich morfológie z hrebenatej na spojitú v dôsledku znízenia hnacej sily pre rast a k zmene typu majoritnej fázy z Cu6Sn5 na Cu3Sn. Jav sme spojili so zmenou efektívneho difúzneho koeficientu zložiek a jeho znížením aj pri zvýšených teplotách (publikácia v Applied Nanoscience, prednáška na konf. IMC-XV, poster na konf. NANO-2023).

43.) 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:
Navrhli sme model, v ktorom sa 6-stavový clock model anizotropne deformuje na Pottsov model. Pomocou metódy Corner Transfer Matrix Renormalization Group sme navrhli tenzorovú sieť so zdeformovanými spinovými interakciami. Zistili sme, že dochádza k postupnému oslabovaniu dvoch fázových prechodov typu Kosterlitz-Thouless. Tieto sa stretávajú v trikritickom bode a menia na nespojitý fázový prechod prvého rádu. Klasifikovali sme triedu univerzality trikritického bodu a načrtli možné scenáre vzniku fázových prechodov tretieho a vyššieho rádu [10.1016/j.physa.2023.128907].

Zamerali sme sa na netriviálne vlastnosti fraktálnych štruktúr, kde lokálne merania vedú k diametrálne odlišným výsledkom. Zadefinovali sme spôsob merania globálnych fyzikálnych vlastností pomocou „automatickej diferenciácie“ tenzorovej siete v metóde Higher-Order Tensor Renormalization Group. Globálneho merania spontánnej magnetizácie je experimentálne merateľné a je výrazne odlišné od lokálnych meraní [10.1103/PhysRevE.107.044108].

44.) 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:	APVV: 43893 €

Dosiahnuté výsledky:
V PSI vo švajčiarskom Zürichu sa začala nová spolupráca na miónových röntgenových lúčoch. Boli analyzované údaje z predchádzajúcich experimentov uskutočnených v rámci projektu. Na Univerzite v Jyväskylä (Fínsko) boli schválené dva nové experimenty. Dva experimenty sa uskutočnili v INFN Legnaro, Taliansko. Údaje sa analyzujú.

45.) Optimalizačné metódy pre kvantové technológie *(Optimisation methods for quantum technologies)*

Zodpovedný riešiteľ:	Mário Ziman
Trvanie projektu:	1.7.2019 / 30.6.2023

Evidenčné číslo projektu:	APVV-18-0518
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 20390 €

Dosiahnuté výsledky:
V poslednom polroku riešenia projektu pribudla jedna publikácia. Nie všetky kvantové procesy vzniknú zložením iných kvantových procesoch.Hovoríme, že existujú tzv. nerozdeliteľné kvantové procesy. V analógii s násobením čísel tieto kvantové procesy pripomínajú prvočísla. V článku [PRL 130, 080801 (2023)] sme si položili otázku, ktoré "zložené" procesy vieme napísať vynásobením striktne konečného počtu takýchto "prvočíselných" procesov. Výsledkom je, že pre prípad qubitových procesov a všeobecných generických procesov (t.j. až na množinu miery nula) všetky procesy sú alebo nerozdeliteľné, alebo rozdeliteľné na nekonečne veľa procesov. Dôkaz je založený na zavedení novej dekompozície kvantových procesov.

Programy: Ministerstvo školstva, vedy, výskumu a športu

46.) 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, vedy, výskumu a športu SR: 10000 €

Dosiahnuté výsledky:
Bola realizovaná kulombovská excitácia izotopu 185Hg s detekciou konverzných elektrónov.

Programy: IMPULZ

47.) 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: 111802 €

Dosiahnuté výsledky:

Programy: Plán obnovy EÚ

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:	-

Dosiahnuté výsledky:
Preskúmali sme v širokom rozsahu význam dopovanie bezolovnatých spájok nanoobjektami (oxidy kovov, uhlíkové nanočastice, kovové nanoprášky a pod.) na mikroštruktúru a pevnosť spojov pri nízkych teplotách, izbových teplotách a zvýšených teplotách blízkych medzným pracovným teplotám.

Spravili sme prvé štúdie pripraviteľnosti bezolovnatých spájok vyvinutých s využitím princípu vysokej entropie (High Entropy Alloys, HEA) na získanie spájok s netradičnými teplotnými, mechanickými a koróznymi vlastnosťami.
Podobne sme pripravili zliatiny typu HEA so zložením Fe-Co-Ni-Al-Mn a variáciou obsahu vybraných prvkov od ekvimolárneho, najmä vrajomnou variáciou pomeru Al/Mn a dolegovaním šiestym prvkom, menovite Cr, Cu alebo V. Výsledné zliatiny boli pripravené v troch rozdielnych termodynamických stavoch pomocou konvenčného tuhnutia, rýchleho ochladenia taveniny a odlievania do valcovej alebo kónickej formy. Ukázali sme, že použité substitúcie vo väčšine prípadov vedú k monofázovosti výslednej štruktúry a potvrdzujú tak počiatočný predpoklad o zachovaní vysokej konfiguračnčj entropie systémov (poster, konf. RQ17, prednáška FEMS EUROMAT 2023).

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:	-

Dosiahnuté výsledky:

Príloha A-3

Publikačná činnosť organizácie

Príloha je generovaná z ARL.

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01 ADACHI, Yuuki - BRNDIAR, Ján - KONÔPKA, M. - TURANSKÝ, Robert - ZHU, Qiang - WEI, Huan Fei - SUGAWARA, Yasuhiro - KANTOROVICH, Lev - ŠTICH, Ivan - LI, Yanjun. Tip-activated single-atom catalysis: CO oxidation on Au adatom on oxidized rutile TiO2 surface. In Science Advances, 2023, vol. 9, no. 39, art. no. eadi4799. (2022: 13.6 - IF, Q1 - JCR, 4.598 - SJR, Q1 - SJR). ISSN 2375-2548. Dostupné na: https://doi.org/10.1126/sciadv.adi4799

ADCA02 ANNUŠOVÁ, Adriana** - LABUDOVÁ, Martina - TRUCHAN, Daniel - HEGEDŰŠOVÁ, Veronika - ŠVAJDLENKOVÁ, Helena - MIČUŠÍK, Matej - KOTLÁR, Mário - PRIBUSOVÁ SLUŠNÁ, Lenka - HULMAN, Martin - SALEHTASH, Farnoush - KÁLOSI, Anna - CSÁDEROVÁ, Lucia - ŠVASTOVÁ, Eliška - ŠIFFALOVIČ, Peter - JERGEL, Matej - PASTOREKOVÁ, Silvia - MAJKOVÁ, Eva. Selective Tumor Hypoxia Targeting Using M75 Antibody Conjugated Photothermally Active MoOx Nanoparticles. In ACS Omega, 2023, vol. 8, no. 47, p. 44497-44513. (2022: 4.1 - IF, Q2 - JCR, 0.694 - SJR, Q1 - SJR). ISSN 2470-1343. Dostupné na: https://doi.org/10.1021/acsomega.3c01934 (APVV-20-0485 : Využitie nanomedicíny v boji proti rakovine pankreasu prostredníctvom zacielenia nádorovo-asociovanej karbonickej anhydrázy IX. VEGA 2/0046/23. VEGA 2/0041/21)

ADCA03 ARAÚJO, Mateus - HUBER, Marcus - NAVASCUÉS, Miguel - PIVOLUSKA, Matej - TAVAKOLI, Armin. Quantum key distribution rates from semidefinite programming. In Quantum : the open journal for quantum science, 2023, vol. 7, p. 1019. (2022: 6.4 - IF, Q1 - JCR, 2.702 - SJR, Q1 - SJR). ISSN 2521-327X. Dostupné na: https://doi.org/10.22331/q-2023-05-24-1019 (VEGA 2/0136/19 : Benchmark Kvantových počítačov prístupných cez Klaud (BeKvaK))

ADCA04 AURANEN, K.** - SIWACH, P. - ARUMUGAM, P. - BRISCOE, A. D. - FERREIRA, L. S. - GRAHN, T. - GREENLEES, P. T. - HERZÁŇ, Andrej - ILLANA, A. - JOSS, D.T. - JOUKAINEN, H. - JULIN, R. - JUTILA, H. - LEINO, M. - LOUKO, J. - LUOMA, M. - MAGLIONE, E. - OJALA, J. - PAGE, R. D. - PAKARINEN, J. - RAHKILA, P. - ROMERO, J. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - TOLOSA-DELGADO, A. - UUSITALO, J. - ZIMBA, G. Probing triaxiality beyond the proton drip line: Spectroscopy of 147Tm. In Physical Review C, 2023, vol. 108, no. 1, art. no. L011303. (2022: 3.1 - IF, Q2 - JCR, 1.305 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: https://doi.org/10.1103/PhysRevC.108.L011303 (APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier. VEGA 2/0067/21 : Jadrová štruktúra v okolí uzavretých protónových vrstiev)

ADCA05 BALOG, Martin** - DE CASTRO, Moara Marques - ČAPEK, Jaroslav - ŠVEC, Peter Jr. - TAKÁČOVÁ, Martina - CSÁDEROVÁ, Lucia - SEDLÁČKOVÁ, Eva - ŠVASTOVÁ, Eliška - ŠKOLÁKOVÁ, Andrea - DVORSKÝ, Drahomír - PINC, Jan - HYBÁŠEK, Vojtěch - KUBÁSEK, Jiří - KRÍŽIK, Peter - SKIBA, Jacek - BAJANA, Otto - HASSAN IBRAHIM, Ahmed Mohamed. Suppression of mechanical instability in bioabsorbable ultrafine-grained Zn through in-situ stabilization by ZnO nanodispersoids. In Journal of Materials Research and

Technology-JMR&T, 2023, vol. 25, pp. 4510-4527. (2022: 6.4 - IF, Q1 - JCR, 1.05 - SJR, Q1 - SJR). ISSN 2238-7854. Dostupné na: https://doi.org/10.1016/j.jmrt.2023.06.252 (APVV-20-0417 : Vývoj unikátneho TiMg kompozitného zubného implantátu. ITMS2014+: 313021T081 : Vybudovanie Centra pre využitie pokročilých materiálov Slovenskej akadémie vied)

ADCA06 BALOGH, Róbert - ECKSTEIN ANDICSOVÁ, Anita - TOKÁR, Kamil - DANKO, Martin**. The synthesis and spectral study of thiazolo[5,4-d]thiazole based small molecules using 1,3,4-oxadiazole as a linker for organic electronics. In Journal of Photochemistry and Photobiology. A: chemistry, 2023, vol. 434, no. 1, art. no. 114217, [11] p. (2022: 4.3 - IF, Q2 - JCR, 0.678 - SJR, Q2 - SJR). ISSN 1010-6030. Dostupné na: https://doi.org/10.1016/j.jphotochem.2022.114217

ADCA07 BÉTERMIN, Laurent** - ŠAMAJ, Ladislav - TRAVĚNEC, Igor. Three-dimensional lattice ground states for Riesz and Lennard-Jones–type energies. In Studies in Applied Mathematics, 2023, vol. 150, no. 1, p. 69-91. (2022: 2.7 - IF, Q1 - JCR, 1.016 - SJR, Q1 - SJR). ISSN 0022-2526. Dostupné na: https://doi.org/10.1111/sapm.12533 (VEGA 2/0092/21 : Štatistická mechanika klasických coulombovských systémov)

ADCA08 BULLA, Lukas** - PIVOLUSKA, Matej** - HJORTH, Kristian - KOHOUT, Oskar - LANG, Jan - ECKER, Sebastian - NEUMANN, Sebastian P. - BITTERMANN, Julius - KINDLER, Robert - HUBER, Marcus** - BOHMANN, Martin** - URSIN, Rupert**. Nonlocal Temporal Interferometry for Highly Resilient Free-Space Quantum Communication. In Physical Review X, 2023, vol. 13, no. 2, art. no. 021001. (2022: 12.5 - IF, Q1 - JCR, 6.267 - SJR, Q1 - SJR). ISSN 2160-3308. Dostupné na: https://doi.org/10.1103/PhysRevX.13.021001 (VEGA 2/0136/19 : Benchmark Kvantových počítačov prístupných cez Klaud (BeKvaK))

ADCA09 BULLA, Lukas** - HJORTH, Kristian - KOHOUT, Oskar - LANG, Jan - ECKER, Sebastian - NEUMANN, Sebastian P. - BITTERMANN, Julius - KINDLER, Robert - HUBER, Marcus** - BOHMANN, Martin** - URSIN, Rupert** - PIVOLUSKA, Matej**. Distribution of genuine high-dimensional entanglement over 10.2 km of noisy metropolitan atmosphere. In Physical Review A, 2023, vol. 107, art. no. L050402. (2022: 2.9 - IF, Q2 - JCR, 1.11 - SJR, Q1 - SJR). ISSN 1050-2947. Dostupné na: https://doi.org/10.1103/PhysRevA.107.L050402 (VEGA 2/0136/19 : Benchmark Kvantových počítačov prístupných cez Klaud (BeKvaK))

ADCA10 BYSTRICKÝ, Roman** - ŠKRÁTEK, Martin - RUSNÁK, Jaroslav - PRECNER, Marián - ŤAPAJNA, Milan - ŠAJGALÍK, Pavol. Electrical and magnetic properties of silicon carbide composites with titanium and niobium carbide as sintering aids. In Ceramics International, 2023, vol. 49, p. 5319-5326. (2022: 5.2 - IF, Q1 - JCR, 0.918 - SJR, Q1 - SJR). ISSN 0272-8842. Dostupné na: https://doi.org/10.1016/j.ceramint.2022.10.055

ADCA11 CIFRANIČOVÁ, Katarína** - ŠAUŠA, Ondrej - KRÁLOVIČ, David Pavel - ŠVAJDLENKOVÁ, Helena**. Microstructural study of different thick dimethacrylate-based samples using different amounts of photoinitiator. In Polymer Chemistry, 2023, vol. 14, no. 29, p. 3372-3380. (2022: 4.6 - IF, Q1 - JCR, 1.014 - SJR, Q1 - SJR). ISSN 1759-9954. Dostupné na: https://doi.org/10.1039/d3py00297g

ADCA12 COSTA, A.* - BAUMGARTNER, C.* - REINHARDT, S. - BERGER, J. - GRONIN, S. - GARDNER, G. C. - LINDEMANN, T. - MANFRA, M. J. - FABIAN, J. - KOCHAN, Denis - PARADISO, N.** - STRUNK, C. Sign reversal of the Josephson inductance magnetochiral anisotropy and 0–π-like transitions in supercurrent diodes. In Nature Nanotechnology, 2023, vol. 18, no. 11, p. 1266-1272. (2022: 38.3 - IF, Q1 - JCR, 13.141 - SJR, Q1 - SJR). ISSN 1748-3387. Dostupné na: https://doi.org/10.1038/s41565-023-01451-x

ADCA13 COSTA, Andreas** - FABIAN, Jaroslav - KOCHAN, Denis. Microscopic study of the Josephson supercurrent diode effect in Josephson junctions based on two-dimensional electron gas. In Physical Review B, 2023, vol. 108, no. 5, art. no. 054522. (2022: 3.7 - IF, Q2 - JCR, 1.468 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: https://doi.org/10.1103/PhysRevB.108.054522

ADCA14 DE BASTIANI, Michele** - JALMOOD, Rawan - LIU, Jiang - OSSIG, Christina - VLK, Aleš - VÉGSO, Karol - BABICS, Maxime - ISIKGOR, Furkan H. - SELVIN, Anand S. - AZMI, Randi - UGUR, Esma - BANERJEE, Swarnendu - MIRABELLI, Alessandro J. - AYDIN, Erkan - ALLEN, Thomas G. - REHMAN, Atteq Ur - VAN KERSCHAVER, Emmanuel - ŠIFFALOVIČ, Peter - STUCKELBERGER, Michael E. - LEDINSKY, Martin - DE WOLF, Stefaan. Monolithic Perovskite/Silicon Tandems with 28% Efficiency: Role of Silicon-Surface Texture on Perovskite Properties. In Advanced Functional Materials, 2023, vol. 33, art. no. 2205557. (2022: 19 - IF, Q1 - JCR, 5.565 - SJR, Q1 - SJR). ISSN 1616-301X. Dostupné na: https://doi.org/10.1002/adfm.202205557 (APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou)

ADCA15 DIN, Muhammad Faraz Ud** - SOUSANI, Shima - KOTLÁR, Mário - ULLAH, Sami - GREGOR, Maroš - ŠČEPKA, Tomáš - SOYKA, Yaryna - STEPURA, Anastasiia - SHAJI, Ashin - IGBARI, Femi - VÉGSO, Karol - NÁDAŽDY, Vojtech - ŠIFFALOVIČ, Peter - JERGEL, Matej - OMASTOVÁ, Mária - MAJKOVÁ, Eva. Tailoring the electronic properties of the SnO2 nanoparticle layer for n-i-p perovskite solar cells by Ti3C2Tx MXene. In Materials Today Communications, 2023, vol. 36, art.no. 106700, [10] p. (2022: 3.8 - IF, Q2 - JCR, 0.644 - SJR, Q2 - SJR). ISSN 2352-4928. Dostupné na: https://doi.org/10.1016/j.mtcomm.2023.106700 (APVV-19-0465 : Hybridné nízkorozmerné vrstevnaté materiály s novými funkciami. APVV-17-0560 : Tribologické vlastnosti 2D materiálov a príbuzných nanokompozitov/. APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou. APVV-19-0365 : Metalické 2D dichalkogenidy prechodných kovov: príprava, štúdium vlastností a korelované stavy. APVV-18-0480 : Cielený dizajn hydrogélových mikrokapsúl pre imunitnú ochranu pankreatických ostrovčekov v liečbe cukrovky. VEGA 2/0041/21)

ADCA16 DJOUMESSI, Aurelien Sokeng** - SICHWARDT, Anastasia - MILIAIEVA, Daria - ČERMÁK, Jan - SCHAAL, Maximilian - OTTO, Felix - STEHLÍK, Štepán - KULIČEK, Jaroslav - NÁDAŽDY, Vojtech - FRITZ, Torsten - KROMKA, Alexander - REZEK, Bohuslav - SCHUBERT, Ulrich S. - HOPPE, Harald. Nanodiamonds as Charge Extraction Layer in Organic Solar Cells: The Impact of the Nanodiamond Surface Chemistry. In Solar RRL, 2023, vol. 7, no. 12, art. no. 2201061. (2022: 7.9 - IF, Q1 - JCR, 2.24 - SJR, Q1 - SJR). ISSN 2367-198X. Dostupné na: https://doi.org/10.1002/solr.202201061 (VEGA 2/0165/22 : Hľadanie optimálnych štruktúrnych a elektronických vlastností organických polovodičových vrstiev)

ADCA17 DUBNIČKA, Stanislav** - DUBNIČKOVÁ, Anna Zuzana - HOLKA, Lukáš - LIPTAJ, Andrej. Study of damped oscillating structures from charged and neutral K-meson electromagnetic form factors data. In European Physical Journal A, 2023, vol. 59, no. 8, art. no. 190. (2022: 2.6 - IF, Q2 - JCR, 0.969 - SJR, Q2 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1434-6001. Dostupné na: https://doi.org/10.1140/epja/s10050-023-01101-9 (VEGA 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)

ADCA18 DUBNIČKA, Stanislav* - DUBNIČKOVÁ, Anna Z.* - IVANOV, Mikhail A.* - LIPTAJ, Andrej**. B Meson Decays in the Covariant Confined Quark Model. In

Symmetry-Basel, 2023, vol. 15, no. 8, art. no. 1542. (2022: 2.7 - IF, Q2 - JCR, 0.483 - SJR, Q2 - SJR). ISSN 2073-8994. Dostupné na: https://doi.org/10.48550/arXiv.2309.05412 (VEGA 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)

ADCA19 ECKSTEIN ANDICSOVÁ, Anita** - TOKÁROVÁ, Zita** - KOZMA, Erika - BALOGH, Róbert - VYKYDALOVÁ, Anna - MRÓZ, Wojciech - TOKÁR, Kamil. Thiazolo[5,4-d]thiazoles with a spirobifluorene moiety as novel D-p-A type organic hosts: design, synthesis, structure-property relationship and applications in electroluminescent devices. In New Journal of Chemistry, 2023, vol. 47, no. 23, p. 11165-11175. (2022: 3.3 - IF, Q2 - JCR, 0.601 - SJR, Q2 - SJR). ISSN 1144-0546. Dostupné na: https://doi.org/10.1039/d3nj01633a

ADCA20 GEBRU, Medhanie Gebremedhin - SUBRAMANIAN, Palaniappan** - BĚLSKÝ, Petr - YADAV, Radhey Shyam - PITUSSI, Itay - SASI, Sarath - MEDLÍN, Rostislav - MINAR, Jan - ŠVEC, Peter Jr. - KORNWEITZ, Haya - SCHECHTER, Alex**. Chemical-Dealloying-Derived PtPdPb-Based Multimetallic Nanoparticles: Dimethyl Ether Electrocatalysis and Fuel Cell Application. In ACS Applied Materials & Interfaces, 2023, vol. 15, p. 56930-56944. (2022: 9.5 - IF, Q1 - JCR, 2.178 - SJR, Q1 - SJR). ISSN 1944-8244. Dostupné na: https://doi.org/10.1021/acsami.3c11003 (VEGA 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)

ADCA21 GENZOR, Jozef - GENDIAR, Andrej - NISHINO, Tomotoshi. Local and global magnetization on the Sierpiński carpet. In Physical Review E, 2023, vol. 107, no. 4, art. no. 044108. (2022: 2.4 - IF, Q1 - JCR, 0.819 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 2470-0045. Dostupné na: https://doi.org/10.1103/PhysRevE.107.044108 (APVV-20-0150 : Perspektívne elektrónové spinové systémy pre budúce kvantové technológie. VEGA 2/0156/22 : Kvantové simulácie a modelovanie interakčých sietí (QuaSiModo))

ADCA22 GHOLIZADEH, Alireza - HADIPOUR, Maryam - HASELI, Soroush** - HADDADI, Saeed - DOLATKHAH, Hazhir. Quantum dynamical speedup for correlated initial states. In Communications in Theoretical Physics, 2023, vol. 75, no. 7, art. no. 075101. (2022: 3.1 - IF, Q2 - JCR, 0.506 - SJR, Q2 - SJR). ISSN 0253-6102. Dostupné na: https://doi.org/10.1088/1572-9494/acdce8

ADCA23 GHOSHAL, Ahana - SAU, Soham - DAS, Debmalya - SEN, Ujjwal. Isolating noise and amplifying the signal using weak quantum measurement and postselection. In Physical Review A, 2023, vol. 107, no. 5, art. no. 052214. (2022: 2.9 - IF, Q2 - JCR, 1.11 - SJR, Q1 - SJR). ISSN 1050-2947. Dostupné na: https://doi.org/10.1103/PhysRevA.107.052214

ADCA24 GONZÁLEZ-ALONSO, David** - GONZALEZ-LEGARRETA, Lorena** - MARCIN, Jozef - ŠVEC, Peter - ŠKORVÁNEK, Ivan. Tailoring Magnetic Properties and Magnetoimpedance Response in Nanocrystalline (Fe3Ni)81Nb7B12 Ribbons for Sensor Applications. In Chemosensors, 2023, vol. 11, no. 2, art. no. 148. (2022: 4.2 - IF, Q2 - JCR, 0.52 - SJR, Q2 - SJR). ISSN 2227-9040. Dostupné na: https://doi.org/10.3390/chemosensors11020148 (APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania)

ADCA25 HADIPOUR, Maryam - HASELI, Soroush** - DOLATKHAH, Hazhir - RASHIDI, Maryam. Study the charging process of moving quantum batteries inside cavity. In Scientific Reports, 2023, vol. 13, no. 1, art. no. 10672. (2022: 4.6 - IF, Q2 - JCR,

0.973 - SJR, Q1 - SJR). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-023-37800-y

ADCA26 HARTL, Benedikt** - MIHALKOVIČ, Marek - ŠAMAJ, Ladislav - MAZARS, Martial - TRIZAC, Emmanuel - KAHL, Gerhard. Ordered ground state configurations of the asymmetric Wigner bilayer system-Revisited with unsupervised learning. In Journal of Chemical Physics, 2023, vol. 159, no. 20, art. no. 204112. (2022: 4.4 - IF, Q1 - JCR, 1.196 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 0021-9606. Dostupné na: https://doi.org/10.1063/5.0166822 (VEGA 2/0092/21 : Štatistická mechanika klasických coulombovských systémov. VEGA 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov)

ADCA27 HOFBAUEROVÁ, Monika, Benkovičová - RUSKOVÁ, Magdaléna - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - ANNUŠOVÁ, Adriana - MAJKOVÁ, Eva - ŠIFFALOVIČ, Peter - GRANATA, Giuseppe - NAPOLI, Edoardo - GERACI, C. - PANGALLO, Domenico**. Protection and Disinfection Activities of Oregano and Thyme Essential Oils Encapsulated in Poly(ε-caprolactone) Nanocapsules. In Molecules, 2023, vol. 28, no. 3, art. no. 1018. (2022: 4.6 - IF, Q2 - JCR, 0.704 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules28031018 (VEGA 2/0082/22 : Využitie biokompatibilných 2D nanomateriálov a nanočastíc ako ochrana pred biodeterioráciou rôznych druhov povrchov)

ADCA28 IGBARI, Femi - XU, Fa-Feng - SHAO, Jiang-Yang - DIN, Muhammad Faraz Ud - ŠIFFALOVIČ, Peter - ZHONG, Yu-Wu**. Stacking Interactions and Photovoltaic Performance of $Cs_2AgBiBr_6$ Perovskite. In Solar RRL, 2023, vol. 7, no.6, art. no. 2200932. (2022: 7.9 - IF, Q1 - JCR, 2.24 - SJR, Q1 - SJR). ISSN 2367-198X. Dostupné na: https://doi.org/10.1002/solr.202200932 (APVV-21-0297 : Pokročilé perovskitové solárne články s optimalizovanou pasiváciou a štruktúrou. APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou)

ADCA29 IVANČO, Ján** - POLLASTRI, Simone - HOFBAUEROVÁ, Monika, Benkovičová. In-situ/operando characterization of FeOx-based chemiresistive sensor of acetone vapours by X-ray absorption spectroscopy. In Thin Solid Films, 2023, vol. 787, art. no. 140120. (2022: 2.1 - IF, Q3 - JCR, 0.454 - SJR, Q2 - SJR). ISSN 0040-6090. Dostupné na: https://doi.org/10.1016/j.tsf.2023.140120

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ADCA31 KERN, S.** - NEILINGER, Pavol - IL'ICHEV, E. - SULTANOV, A. - SCHMELZ, M. - LINZEN, S. - KUNERT, J. - OELSNER, G. - STOLZ, R. - DANILOV, A. - MAHASHABDE, S. - JAYARAMAN, A. - ANTONOV, V. - KUBATKIN, S. - GRAJCAR, Miroslav. Reflection-enhanced gain in traveling-wave parametric amplifiers. In Physical Review B, 2023, vol. 107, no. 17, art. no. 174520. (2022: 3.7 - IF, Q2 - JCR, 1.468 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: https://doi.org/10.1103/PhysRevB.107.174520

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ADCA34 KLBIK, Ivan** - ČECHOVÁ, Katarína - MILOVSKÁ, Stanislava - ŠVAJDLENKOVÁ, Helena - MAŤKO, Igor - LAKOTA, Ján - ŠAUŠA, Ondrej. Polyethylene glycol 400 enables plunge-freezing cryopreservation of human keratinocytes. In Journal of Molecular Liquids, 2023, vol. 379, art. no. 121711. (2022: 6 - IF, Q1 - JCR, 0.914 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 0167-7322. Dostupné na: https://doi.org/10.1016/j.molliq.2023.121711

ADCA35 KOČÍ, M.** - IZSÁK, Tibor - VANKO, Gabriel - SOJKOVÁ, Michaela - HRDÁ, Jana - SZABÓ, O. - HUSÁK, M. - VÉGSO, Karol - VARGA, Marian - KROMKA, A. Improved gas sensing capabilities of MoS2/diamond heterostructures at room temperature. In ACS Applied Materials & Interfaces, 2023, vol. 15, p. 34206-34214. (2022: 9.5 - IF, Q1 - JCR, 2.178 - SJR, Q1 - SJR). ISSN 1944-8244. Dostupné na: https://doi.org/10.1021/acsami.3c04438 (MoRePro 19MRP0010)

ADCA36 KOHOUTOVA, A.** - RODIN, A. M. - KRUPA, L. - CHERNYSHEVA, E. V. - GULYAEV, A. V. - GULYAEVA, A. V. - HOLIK, M. - KLIMAN, Ján - KOHOUT, P. - KOMAROV, A. B. - NOVOSELOV, A. S. - OPICHAL, A. - PECHOUSEK, J. - PODSHIBYAKIN, A.V. - SALAMATIN, V. S. - STEPANTSOV, S. V. - VEDENEEV, V. Yu. - YUKHIMCHUK, S. A. Separaton Efficiency and Separation Time of Mass Separator MASHA Measured for Radon and Mercury Isotopes. In Physics of Particles and Nuclei, 2023, vol. 54, no. 4, p. 665-669. (2022: 0.4 - IF, Q4 - JCR, 0.236 - SJR, Q3 - SJR). (2023 - SCOPUS). ISSN 1063-7796. Dostupné na: https://doi.org/10.1134/S1063779623040184

ADCA37 KOKKONEN, H.** - AURANEN, K. - UUSITALO, J. - EECKHAUDT, S. - GRAHN, T. - GREENLEES, P. T. - JONES, P. - JULIN, R. - JUUTINEN, S. - LEINO, M. - LEPPÄNEN, A.-P. - NYMAN, M. - PAKARINEN, J. - RAHKILA, P. - SARÉN, J. - SCHOLEY, C. - SORRI, J. - VENHART, Martin. Properties of the new α-decaying isotope 190At. In Physical Review C, 2023, vol. 107, no. 6, art. no. 064312. (2022: 3.1 - IF, Q2 - JCR, 1.305 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: https://doi.org/10.1103/PhysRevC.107.064312 (VEGA 2/0067/21 : Jadrová štruktúra v okolí uzavretých protónových vrstiev. APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier)

ADCA38 LIPTAJ, Andrej**. Statistical approach for highest precision numerical differentiation. In Mathematics and Computers in Simulation, 2023, vol. 203, p. 92-11. (2022: 4.6 - IF, Q1 - JCR, 0.755 - SJR, Q1 - SJR). ISSN 0378-4754. Dostupné na: https://doi.org/10.1016/j.matcom.2022.06.024 (VEGA 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)

ADCA39 LU, Bin** - VÉGSO, Karol - MIČKY, Simon - RITZ, Christian - BODIK, Michal - FEDORYSHYN, Yuriy Myronovych - ŠIFFALOVIČ, Peter - STEMMER, Andreas. Tunable Subnanometer Gaps in Self Assembled Monolayer Gold Nanoparticle Superlattices Enabling Strong Plasmonic Field Confinement. In ACS Nano, 2023, vol. 17, no. 13, p. 12774-12787. (2022: 17.1 - IF, Q1 - JCR, 4.728 - SJR, Q1 - SJR). ISSN 1936-0851. Dostupné na: https://doi.org/10.1021/acsnano.3c03804 (APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou)

ADCA40 MANGIOROU, Emmanouela - KTENA, Aphrodite - MUSMARRA, Dino - ŠVEC, Peter - XANTHAKIS, John P. - HRISTOFOROU, Evangelos**. Analytical Model of Enhanced H2 Production from Water Vapor in Bulk Iron Oxide Pellets Using Lorentz Forces. In Industrial & Engineering Chemistry Research, 2023, vol. 62, no. 50, p. 21558-21566. (2022: 4.2 - IF, Q2 - JCR, 0.819 - SJR, Q1 - SJR). ISSN 0888-5885. Dostupné na: https://doi.org/10.1021/acs.iecr.3c02671

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ADCA42 MARTINOVIČ, Lubomír**. Operator solution of the light-front Thirring-Wess model. In Physical Review D, 2023, vol. 107, no. 10, art. no. 105009. (2022: 5 - IF, Q1 - JCR, 1.639 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: https://doi.org/10.1103/PhysRevD.107.105009

ADCA43 MASAR, Milan - ALI, Hassan - GULER, Ali Can - URBANEK, Michal - URBANEK, Pavel - HANULIKOVA, Barbora - PISTEKOVA, Hana - ANNUŠOVÁ, Adriana - MACHOVSKY, Michal** - KURITKA, Ivo. Multifunctional bandgap-reduced ZnO nanocrystals for photocatalysis, self-cleaning, and antibacterial glass surfaces. In Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, vol. 656, art. no. 130447. (2022: 5.2 - IF, Q2 - JCR, 0.792 - SJR, Q1 - SJR). ISSN 0927-7757. Dostupné na: https://doi.org/10.1016/j.colsurfa.2022.130447

ADCA44 MILIAIEVA, Daria** - DJOUMESSI, Aurelien Sokeng - ČERMÁK, Jan - KOLÁŘOVÁ, Kateřina - SCHAAL, Maximilian - OTTO, Felix - SHAGIEVA, Ekaterina - ROMANYUK, Olexandr - PANGRÁC, Jiří - KULIČEK, Jaroslav - NÁDAŽDY, Vojtech - STEHLÍK, Štěpán - KROMKA, Alexander - HOPPE, Harald - REZEK, Bohuslav. Absolute energy levels in nanodiamonds of different origins and surface chemistries. In Nanoscale Advances, 2023, vol. 5, no. 17, p. 4402-4414. (2022: 4.7 - IF, Q2 - JCR, 1.063 - SJR, Q1 - SJR). ISSN 2516-0230. Dostupné na: https://doi.org/10.1039/d3na00205e

ADCA45 MOHAMMADY, Mohammed Hamed - MIYADERA, Takayuki - LOVERIDGE, Leon. Measurement disturbance and conservation laws in quantum mechanics. In Quantum : the open journal for quantum science, 2023, vol. 7, art. no. 1033. (2022: 6.4 - IF, Q1 - JCR, 2.702 - SJR, Q1 - SJR). ISSN 2521-327X. Dostupné na: https://doi.org/10.22331/q-2023-06-05-1033

ADCA46 NAUGHTON-DUSZOVÁ, Annamária** - ŠVEC, Peter Jr.** - KOVALČÍKOVÁ, Alexandra - SEDLÁK, Richard - TATARKO, Peter - HVIZDOŠ, Pavol - ŠAJGALÍK, Pavol - DUSZA, Ján. On the phase and grain boundaries in dual phase carbide/boride ceramics from micro to atomic level. In Journal of the European Ceramic Society, 2023, vol. 43, p. 6765-6773. (2022: 5.7 - IF, Q1 - JCR, 1.257 - SJR, Q1 - SJR). ISSN 0955-2219. Dostupné na: https://doi.org/10.1016/j.jeurceramsoc.2023.07.034 (VEGA 2/0118/20 : Vysokoteplotné vlastnosti boridových MeB2 (Me=Ti, Zr, Hf) keramických kompozitných materiálov. VEGA 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov. VEGA 2/0174/21 : Nanomechanické skúšanie a deformovateľnosť vysokoentropických ultra vysokoteplotných keramických materiálov. APVV-17-0328 : Vývoj žiaruvzdorných pyrochlórnych fáz pre vysokoteplotné aplikácie neoxidovej keramiky. 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)

ADCA47 NAUGHTON-DUSZOVÁ, Annamária** - MEDVEĎ, Dávid - ĎAKOVÁ, Lenka - KOVALČÍKOVÁ, Alexandra - ŠVEC, Peter Jr. - TATARKO, Peter - ÜNSAL, Hakan - HVIZDOŠ, Pavol - ŠAJGALÍK, Pavol - DUSZA, Ján. Highly wear resistant dual-phase (Ti-Zr-Nb-Hf-Ta)C/(Ti-Zr-Nb-Hf-Ta) B2 high-entropy ceramics. In Advances in Applied Ceramics, 2023, vol. 122, no. 3-4, p. 107-118. (2022: 2.2 - IF, Q2 - JCR, 0.45 - SJR, Q2 - SJR). ISSN 1743-6753. Dostupné na: https://doi.org/10.1080/17436753.2023.2238160 (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 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-19-0497 : Nové vysokoentropické keramické materiály pre pokročilé aplikácie. APVV-21-0402 : Vývoj nových keramických materiálov komplexného zloženia pre extrémne aplikácie)

ADCA48 NESTERENKO, V. O.** - VISHNEVSKIY, P. I. - REPKO, Anton - KVASIL, J. Low-Energy M1 States in Deformed Nuclei: Spin Scissors or Spin-Flip? In Physics of atomic nuclei, 2022, vol. 85, no. 6, p. 858-867. (2021: 0.410 - IF, Q4 - JCR, 0.217 - SJR, Q4 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1063-7788. Dostupné na: https://doi.org/10.1134/S1063778823010404 (APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier. VEGA 2/0067/21 : Jadrová štruktúra v okolí uzavretých protónových vrstiev)

ADCA49 OPÁLEK, Andrej** - ŠVEC, Peter - ŽEMLIČKA, Matúš - ŠTĚPÁNEK, Matěj - ŠTEFÁNIK, Pavol - KÚDELA, Stanislav, Jr. - BERONSKÁ, Naďa - IŽDINSKÝ, Karol. Ni porous preforms compacted with Al2O3 particles and Al binding agent. In Materials, 2023, vol. 16, no. 3, art. no. 988. (2022: 3.4 - IF, Q2 - JCR, 0.563 - SJR, Q2 - SJR). ISSN 1996-1944. Dostupné na: https://doi.org/10.3390/ma16030988 (ITMS2014+: 313021T081 : Vybudovanie Centra pre využitie pokročilých materiálov Slovenskej akadémie vied. APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania)

ADCA50 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

ADCA51 POLACKOVA, Maria - GENDIAR, Andrej**. Anisotropic deformation of the 6-state clock model: Tricritical-point classification. In Physica A - Statistical Mechanics and its Applications, 2023, vol. 624, art. no. 128907. (2022: 3.3 - IF, Q2 - JCR, 0.699 - SJR, Q2 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 0378-4371. Dostupné na: https://doi.org/10.1016/j.physa.2023.128907 (VEGA 2/0156/22 : Kvantové simulácie a modelovanie interakčých sietí (QuaSiModo). APVV-20-0150 : Perspektívne elektrónové spinové systémy pre budúce kvantové technológie)

ADCA52 POSPÍŠILOVÁ, Eva - MIHALKOVIČ, Marek**. Prediction of coherent interfaces between diamond and clathrate structures. In Computational Materials Science, 2023, vol. 226, no. 11, art. no. 112228. (2022: 3.3 - IF, Q3 - JCR, 0.766 - SJR, Q1 - SJR). ISSN 0927-0256. Dostupné na: https://doi.org/10.1016/j.commatsci.2023.112228 (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 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov)

ADCA53 PRIBUSOVÁ SLUŠNÁ, Lenka** - VÉGSO, Karol - DOBROČKA, Edmund - VOJTEKOVÁ, Tatiana - NÁDAŽDY, Peter - HALAHOVETS, Yuriy - SOJKOVÁ, Michaela - HRDÁ, Jana - PRECNER, Marián - ŠIFFALOVIČ, Peter - CHEN, Z. - HUANG, Yan - RAŽNJEVIĆ, S. - ZHANG, Z. - HULMAN, Martin**. Ordered growth of hexagonal and monoclinic phases of $MoTe_2$ on a sapphire substrate. In CrystEngComm, 2023, vol. 25, p. 5706-5713. (2022: 3.1 - IF, Q1 - JCR, 0.59 - SJR, Q2 - SJR). ISSN 1466-8033. Dostupné na: https://doi.org/10.1039/d3ce00378g (ITMS2014+: 313021T081 : Vybudovanie Centra pre využitie pokročilých materiálov Slovenskej akadémie vied. APVV-19-0365 TMD2DCOR. APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou. VEGA 2/0059/21. VEGA 2/0046/23)

ADCA54 ROJAS-ARIAS, J.S.** - NOIRI, A. - STAŇO, Peter - NAKAJIMA, T. - YONEDA, J. - TAKEDA, K. - KOBAYASHI, T. - SAMMAK, A. - SCAPPUCCI, G. - LOSS, D. - TARUCHA, S. Spatial noise correlations beyond nearest neighbors in 28Si/Si-Ge spin qubits. In Physical Review Applied, 2023, vol. 20, no. 5, art. no. 054024. (2022: 4.6 - IF, Q2 - JCR, 1.492 - SJR, Q1 - SJR). ISSN 2331-7019. Dostupné na: https://doi.org/10.1103/PhysRevApplied.20.054024

ADCA55 ROUHBAKHSH N, Mahdi - GHOREISHI, Seyed Arash**. Geometric bloch vector solution to minimum-error discriminations of mixed qubit states. In Quantum Information Processing, 2023, vol. 22, art. no. 323. (2022: 2.5 - IF, Q1 - JCR, 0.588 - SJR, Q2 - SJR). ISSN 1570-0755. Dostupné na: https://doi.org/10.1007/s11128-023-04080-4 (APVV-18-0518 : Optimalizačné metódy pre kvantové technológie)

ADCA56 SHAHRI, Yasin - HADIPOUR, Maryam - HADDADI, Saeed - DOLATKHAH, Hazhir - HASELI, Soroush. Quantum speed limit of Jaynes-Cummings model with detuning for arbitrary initial states. In Physics Letters A. General Atomic and Solid State Physics, 2023, vol. 470, no. 12, art. no. 128783. (2022: 2.6 - IF, Q3 - JCR, 0.523 - SJR, Q2 - SJR). ISSN 0375-9601. Dostupné na: https://doi.org/10.1016/j.physleta.2023.128783

ADCA57 SINGH, Vipin Kumar - POSPÍŠILOVÁ, Eva - MIHALKOVIČ, Marek** - KRAJČÍ, Marián** - BHAKUNI, Pramod - SARKAR, Shuvam - PUSSI, Katariina - SCHLAGEL, D. L. - LOGRASSO, T. A. - CANFIELD, Paul C. - BARMAN, Sudipta Roy**. Decagonal Sn clathrate on d-Al-Ni-Co. In Physical Review B, 2023, vol. 107, no. 4, art. no. 045410. (2022: 3.7 - IF, Q2 - JCR, 1.468 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: https://doi.org/10.1103/PhysRevB.107.045410 (APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania. VEGA 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov)

ADCA58 SOJKOVÁ, Michaela** - PÍŠ, I. - HRDÁ, Jana - VOJTEKOVÁ, Tatiana - PRIBUSOVÁ SLUŠNÁ, Lenka - VÉGSO, Karol - ŠIFFALOVIČ, Peter - NÁDAŽDY, Peter - DOBROČKA, Edmund - KRBAL, M. - FONS, P.J. - MUNNIK, F. - MAGNANO, E. - HULMAN, Martin - BONDINO, F.**. Lithium-induced reorientation of few-layer MoS_2 films. In Chemistry of Materials, 2023, vol. 35, p.

6246-6257. (2022: 8.6 - IF, Q1 - JCR, 2.869 - SJR, Q1 - SJR). ISSN 0897-4756. Dostupné na: https://doi.org/10.1021/acs.chemmater.3c00669 (VEGA 2/0059/21. APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou. APVV-19-0365 : Metalické 2D dichalkogenidy prechodných kovov: príprava, štúdium vlastností a korelované stavy)

ADCA59 SOULIOTIS, G.A.** - KOULOURIS, S. - CAPPUZZELLO, F. - CARBONE, D. - PAKOU, A. - AGODI, C. - BRISCHETTO, G. - CALABRESE, S. - CAVALLARO, M. - CIRALDO, I. - KLIMO, Jozef - SGOUROS, O. - SOUKERAS, V. - SPATAFORA, A. - TORRESI, D. - VESELSKY, M. Identification of medium mass (A=60-80) ejectiles from 15 MeV/nucleon peripheral heavy-ion collisions with the MAGNEX large-acceptance spectrometer. In Nuclear Instruments and Methods in Physics Research A. Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, vol. 1031, art. no. 166588. (2021: 1.335 - IF, Q3 - JCR, 0.629 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0168-9002. Dostupné na: https://doi.org/10.1016/j.nima.2022.166588

ADCA60 STAŇO, Peter - NAKAJIMA, Takashi - NOIRI, Akito - TARUCHA, Seigo - LOSS, Daniel. Dynamical nuclear spin polarization in a quantum dot with an electron spin driven by electric dipole spin resonance. In Physical Review B, 2023, vol. 108, no. 15, art. no. 155306. (2022: 3.7 - IF, Q2 - JCR, 1.468 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1550-235X. Dostupné na: https://doi.org/10.1103/PhysRevB.108.155306

ADCA61 SZALOWSKI, Karol** - MILIVOJEVIC, Marko - KOCHAN, Denis - GMITRA, Martin. Spin-orbit and exchange proximity couplings in graphene/1T-TaS2 heterostructure triggered by a charge density wave. In 2D Materials, 2023, vol.10, no. 2, art. no. 025013. (2022: 5.5 - IF, Q2 - JCR, 1.631 - SJR, Q1 - SJR). ISSN 2053-1583. Dostupné na: https://doi.org/10.1088/2053-1583/acbb19

ADCA62 ŠROBA, Viktor - FIANTOK, Tomáš - TRUCHLÝ, Martin - ROCH, Tomáš - GRANČIČ, Branislav - VISKUPOVÁ, Katarína - SATRAPINSKYY, Leonid - ŠVEC, Peter Jr. - NAGY, Štefan - IZAI, Vitalii - KÚŠ, Peter - MIKULA, Marian**. Structure evolution and mechanical properties of Al-alloyed tantalum diboride films prepared by magnetron sputtering co-deposition. In Journal of Vacuum Science and Technology A, 2023, vol. 41, no. 2, art. no. 023410. (2022: 2.9 - IF, Q2 - JCR, 0.55 - SJR, Q2 - SJR). ISSN 0734-2101. Dostupné na: https://doi.org/10.1116/6.0002390 (APVV-21-0042 : Tvrdé a húževnaté vrstvy na báze boridov a nitridov pripravené progresívnymi PVD technikami)

ADCA63 TIMCHENKO PRIHODKO, Iryna** - DEIEV, O. S. - OLEJNIK, S. N. - POTIN, S. M. - KORDA, L. P. - KUSHNIR, V. A. - MYTROCHENKO, V. V. - PEREZHOGIN, S. A. - HERZÁŇ, Andrej. Production of 180mHf in photoproton reaction 181Ta(γ, p) at energy Eγ max=35-95 MeV. In European Physical Journal A, 2023, vol. 59, no. 11, art. no. 268. (2022: 2.6 - IF, Q2 - JCR, 0.969 - SJR, Q2 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1434-6001. Dostupné na: https://doi.org/10.1140/epja/s10050-023-01186-2 (APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier. VEGA 2/0067/21 : Jadrová štruktúra v okolí uzavretých protónových vrstiev)

ADCA64 TIWARI, Rupali** - BOHÁČ, Vlastimil - RÉH, Roman - GIUDICE, Valentina Lo - TODARO, Luigi - VRETENÁR, Viliam - ŠTOFANIK, Vladimír, 1975- - KRISTAK, Lubos. Investigation of thermophysical properties of Turkey oak particleboard for sustainable building envelopes. In Developments in the Built Environment, 2023, vol. 16, art. no. 1000228. (2022: 8.2 - IF, Q1 - JCR, 1.556 - SJR, Q1 - SJR). ISSN 2666-1659. Dostupné na: https://doi.org/10.1016/j.dibe.2023.100228 (VEGA 1/0714/21 : Výskum vybraných vlastností trvalo udržateľných izolačných materiálov s potenciálom využitia v drevostavbách)

ADCA65 VIDAL-CRESPO, A. - MANCHÓN-GORDÓN, A. F.** - BLÁZQUEZ, J. S. - IPUS, J. J. - ŠVEC, Peter - CONDE, C. F. Thermal arrest analysis of the reverse martensitic transformation in a Ni55Fe19Ga26 Heusler alloy obtained by melt-spinning. In Journal of Thermal Analysis and Calorimetry, 2023, vol. 148, no. 6, p. 2367-2375. (2022: 4.4 - IF, Q1 - JCR, 0.753 - SJR, Q1 - SJR). ISSN 1388-6150. Dostupné na: https://doi.org/10.1007/s10973-022-11889-1 (APVV-19-0365 : Metalické 2D dichalkogenidy prechodných kovov: príprava, štúdium vlastností a korelované stavy. VEGA 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov)

ADCA66 WANG, Tao - ZHENG, Daming** - VÉGSO, Karol - MRKÝVKOVÁ, Naďa, Tesařová - ŠIFFALOVIČ, Peter - PAUPORTÉ, Thierry**. High-Resolution and Stable Ruddlesden–Popper Quasi-2D Perovskite Flexible Photodetectors Arrays for Potential Applications as Optical Image Sensor. In Advanced Functional Materials, 2023, vol. 33, no. 43, art. no. 2304659. (2022: 19 - IF, Q1 - JCR, 5.565 - SJR, Q1 - SJR). ISSN 1616-301X. Dostupné na: https://doi.org/10.1002/adfm.202304659 (APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou. APVV-21-0297 : Pokročilé perovskitové solárne články s optimalizovanou pasiváciou a štruktúrou)

ADCA67 WANG, Tao - ZHENG, Daming - VÉGSO, Karol - MRKÝVKOVÁ, Naďa, Tesařová - ŠIFFALOVIČ, Peter - YUAN, Xiaocong - SOMEKH, Michael G. - COOLEN, Laurent - PAUPORTE, Thierry - FU, Feng. Flexible array of high performance and stable formamidinium-based low-n 2D halide perovskite photodetectors for optical imaging. In Nano Energy, 2023, vol. 116, no., art. no. 108827. (2022: 17.6 - IF, Q1 - JCR, 5.03 - SJR, Q1 - SJR). ISSN 2211-2855. Dostupné na: https://doi.org/10.1016/j.nanoen.2023.108827 (APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou)

ADCA68 ZECHEL, F. - HUTÁR, Peter - VRETENÁR, Viliam - VÉGSO, Karol - ŠIFFALOVIČ, Peter - SÝKORA, M.**. Green colloidal synthesis of MoS2 nanoflakes. In Inorganic Chemistry, 2023, vol. 62, p. 16554–16563. (2022: 4.6 - IF, Q1 - JCR, 0.997 - SJR, Q1 - SJR). ISSN 0020-1669. Dostupné na: https://doi.org/10.1021/acs.inorgchem.3c02420 (APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou)

ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

ADDA01 CIFRANIČOVÁ, Katarína** - KRÁLOVIČ, Dávid P. - ŠAUŠA, Ondrej - ŠVAJDLENKOVÁ, Helena. Positron annihilation spectroscopy as a tool for examining a microstructure in differently thick polymeric sample. In Chemical Papers, 2023, vol. 77, no. 12, p. 7277-7282. (2022: 2.2 - IF, Q3 - JCR, 0.351 - SJR, Q2 - SJR). ISSN 0366-6352. Dostupné na: https://doi.org/10.1007/s11696-023-02797-1 (APVV-21-0335 : Zmeny mikroštruktúry a fyzikálnych vlastností zosieťovaných polymérov v objeme a v uväznených podmienkach makro- a mezopórov)

ADDA02 KRÁLOVIČ, David Pavel** - CIFRANIČOVÁ, Katarína - ŠAUŠA, Ondrej - ŠVAJDLENKOVÁ, Helena - KAVETSKYY, Taras - KIV, Arnold. The process of photopolymerization of acrylated soybean oil-based epoxides investigated by positron annihilation lifetime spectroscopy. In Chemical Papers, 2023, vol. 77, no. 12, p. 7257-7261. (2022: 2.2 - IF, Q3 - JCR, 0.351 - SJR, Q2 - SJR). ISSN 0366-6352. Dostupné na: https://doi.org/10.1007/s11696-022-02607-0 (APVV-21-0335 : Zmeny mikroštruktúry a fyzikálnych vlastností zosieťovaných polymérov v objeme a v uväznených podmienkach makro- a mezopórov)

ADDA03 VRŠANSKÝ, Peter** - ARISTOV, Daniil - HAIN, Miroslav - KÚDELOVÁ, Tatiana - KÚDELA, Matúš - METSCHER, Brian - PALKOVÁ, Helena - KÁČEROVÁ, Júlia - HINKELMAN, Jan. Longest-surviving Carboniferous-family insect found in Mesozoic amber. In Biologia, 2023, vol. 78, no. 6, p. 1611-1626. (2022: 1.5 - IF, Q4 - JCR, 0.34 - SJR, Q3 - SJR). ISSN 0006-3088. Dostupné na: https://doi.org/10.1007/s11756-022-01192-7 (VEGA č. 2/0113/22 : Šváby zo svetových jantárov III.)

ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

ADEB01 CASTRO, Moara Marques - BALOG, Martin - KRÍŽIK, Peter - ŠVEC, Peter Jr. - ŠVASTOVÁ, Eliška - TAKÁČOVÁ, Martina - KUBÁSEK, Jiří. Microstructure, Mechanical, and In Vitro Characterization of a Novel Biodegradable Zinc-Based Composite Fabricated at Room Temperature. In Key Engineering Materials, 2023, vol. 967, p. 165-170. (2022: 0.171 - SJR, Q4 - SJR). ISSN 1013-9826. Dostupné na: https://doi.org/10.4028/p-Lk6RQ1 (APVV-20-0417 : Vývoj unikátneho TiMg kompozitného zubného implantátu. ITMS2014+: 313021T081 : Vybudovanie Centra pre využitie pokročilých materiálov Slovenskej akadémie vied)

ADEB02 RUSNÁK, Jaroslav - PECZ, Michal - ŠKOVIERA, Ján - KLBIK, Ivan. Thermal DLTS study of the defect states of PELLE polymer. In Discover Materials, 2023, vol. 3, art. no. 22. ISSN 2730-7727. Dostupné na: https://doi.org/10.1007/s43939-023-00059-1 (VEGA 2/0162/22. APVV-21-0335 : Zmeny mikroštruktúry a fyzikálnych vlastností zosieťovaných polymérov v objeme a v uväznených podmienkach makro- a mezopórov)

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

ADMA01 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, 2023, vol. 23, art. no. 2308076. (2022: 19 - IF, Q1 - JCR, 5.565 - SJR, Q1 - SJR). ISSN 1616-301X. Dostupné na: https://doi.org/10.1002/adfm.202308076 (VEGA 2/0165/22 : Hľadanie optimálnych štruktúrnych a elektronických vlastností organických polovodičových vrstiev)

ADMA02 BRISCOE, A.D.** - PAGE, R.D. - UUSITALO, J. - JOSS, D.T. - ALAQEEL, M.A.M. - ALAYED, B. - ANDEL, B. - ANTALIC, S. - AURANEN, K. - AYATOLLAHZADEH, H. - BADRAN, H. - BARBER, L. - BEETON, G. - BÍROVÁ, Monika - BOGDANOFF, V. - CLARK, R.M. - CUBISS, J.G. - CULLEN, D.M. - DEARY, J. - FORSBERG, U. - GRAHN, T. - GREENLEES, P.T. - HILTON, J.B. - ILLANA, A. - JOUKAINEN, H. - JUDSON, D.S. - JULIN, R. - JUTILA, H. - KEATINGS, J.M. - LABICHE, M. - LEINO, M. - LEWIS, M.C. - LOUKO, J. - LUOMA, M. - MARTEL, I. - MCCARTER, A. - MCKEE, P.P. - MOSAT, P. - NATHANIEL, S.N. - NEUVONEN, O. - O';DONNELL, D. - OJALA, J. - PAGE, C.A.A. - PLAZA, A.M. - PAKARINEN, J. - PAPADAKIS, P. - PARR, E. - PARTANEN, J. - RAHKILA, P. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - SAYGI, B. - SMALLCOMBE, J. - SMITH, J.F. - SORRI, J. - SULLIVAN, C.M. - SZWEC, S. - TANN, H. - TOLOSA-DELGADO, A. - UUSIKYLÄ, E. - VENHART, Martin - WARING, L.J. - ZIMBA, G. Decay spectroscopy at the two-proton drip line Radioactivity of the new nuclides 160Os and 156W. In Physics Letters B : Nuclear, Elementary Particle and High-Energy

Physics, 2023, vol. 847, art. no. 138310. (2022: 4.3 - IF, Q1 - JCR, 1.704 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 0370-2693. Dostupné na: https://doi.org/10.1016/j.physletb.2023.138310 (APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier. VEGA 2/0067/21 : Jadrová štruktúra v okolí uzavretých protónových vrstiev)

ADMA03 DAVALOS, David** - ZIMAN, Mário**. Quantum dynamics is not strictly bidivisible. In Physical Review Letters, 2023, vol. 130, no. 8, art. no. 080801. (2022: 8.6 - IF, Q1 - JCR, 3.118 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: https://doi.org/10.1103/PhysRevLett.130.080801

ADMA04 DEARY, J. - SCHECK, M.** - SCHWENGNER, R. - O'DONNELL, D. - BEMMERER, D. - BEYER, R. - HENSEL, Th. - JUNGHANS, A. R. - KÖGLER, T. - MÜLLER, S. E. - RÖMER, K. - SCHMIDT, K. - TURKAT, S. - URLAß, S. - WAGNER, A. - BOWRY, M. - ADSLEY, P. - AGAR, O. - CHAPMAN, R. - CRESPI, F. C. L. - DOHERTY, D. T. - FRIMAN GAYER, U. - HERZBERG, R.-D. - ISAAK, J. - JANSSENS, R. V. F. - KRÖLL, T. - LÖHER, B. - NARA SINGH, B. S. - VON NEUMANN-COSEL, P. - PELLEGRI, L. - PETERS, E. E. - RAINOVSKI, G. - SAVRAN, D. - SMITH, J. F. - SPIEKER, M. - THIROLF, P. G. - TRIAMBAK, S. - TORNOW, W. - VENHART, Martin - WIEDEKING, M. - WIELAND, O. - YATES, S. W. - ZILGES, A. Photo-response of the N = Z nucleus 24Mg. In European Physical Journal A, 2023, vol. 59, no. 9, art. no. 198. (2022: 2.6 - IF, Q2 - JCR, 0.969 - SJR, Q2 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1434-6001. Dostupné na: https://doi.org/10.1140/epja/s10050-023-01111-7 (VEGA 2/0067/21 : Jadrová štruktúra v okolí uzavretých protónových vrstiev. APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier)

ADMA05 HUANG, Yongda - AHMAD, Faizan - MANZOOR, Mumtaz - BRNDIAR, Ján - MITAS, L. - FABIAN, Jaroslav - ŠTICH, Ivan. Colossal band gap response of single-layer phosphorene to strain predicted by quantum Monte Carlo. In Physical Review Research, 2023, vol. 5, no. 3, art. no. 033223. (2022: 4.2 - IF, 1.824 - SJR, Q1 - SJR). ISSN 2643-1564. Dostupné na: https://doi.org/10.1103/PhysRevResearch.5.033223

ADMA06 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, 2023, vol. 23, art. no. 2302520. (2022: 19 - IF, Q1 - JCR, 5.565 - SJR, Q1 - SJR). ISSN 1616-301X. Dostupné na: https://doi.org/10.1002/adfm.202302520 (VEGA 2/0165/22 : Hľadanie optimálnych štruktúrnych a elektronických vlastností organických polovodičových vrstiev)

ADMA07 MIČKY, Simon** - ŠIMON, Erik - TODT, Juraj - VÉGSO, 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, 2023, vol. 23, art. no. 2307837. (2022: 13.3 - IF, Q1 - JCR, 3.395 - 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)

ADMA08 MIHALKOVIČ, Marek - WIDOM, Michael**. Formation enthalpies of Al–Mn–Pd and the structure of the i-AlMnPd quasicrystal. In Rendiconti Lincei - Scienze Fisiche e Naturali, 2023, vol. 34, no. 3, p. 671-680. (2022: 2 - IF, Q3 - JCR, 0.318 -

SJR, Q2 - SJR). ISSN 2037-4631. Dostupné na: https://doi.org/10.1007/s12210-023-01165-1 (APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania. VEGA 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov. APVV-20-0124 : Nové zliatiny s viacerými základnými prvkami – dizajn, charakterizácia a vlastnosti)

ADMA09 YONEDA, J.** - ROJAS-ARIAS, J. S. - STAŇO, Peter - TAKEDA, K. - NOIRI, A. - NAKAJIMA, T. - LOSS, D. - TARUCHA, S.**. Noise-correlation spectrum for a pair of spin qubits in silicon. In Nature Physics, 2023, vol. 19, no. 12, p. 1793-1798. (2022: 19.5 - IF, Q1 - JCR, 7.955 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1745-2473. Dostupné na: https://doi.org/10.1038/s41567-023-02238-6

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

ADMB01 BARTOŠ, Erik - DUBNIČKA, Stanislav** - DUBNIČKOVÁ, Anna Zuzana. Search for Damped Oscillating Structures from Charged Pion Electromagnetic Form Factor Data. In Dynamics, 2023, vol. 3, no. 1, p. 137-151. ISSN 2673-8716. Dostupné na: https://doi.org/10.3390/dynamics3010009 (VEGA 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)

ADMB02 BOHÁČ, Vlastimil** - TIWARI, Rupali - KRIŠŤÁK, Luboš - TODARO, Luigi - LO GIUDICE, Valentina - VRETENÁR, Viliam. Thermal properties of Oak high density board measured by the pulse transient method for different heat pulse energy. In AIP Conference Proceedings, 2023, vol. 2894, art. no. 020001. (2022: 0.164 - SJR). (2023 - WOS, SCOPUS). ISSN 0094-243X. Dostupné na: https://doi.org/10.1063/5.0163980 (VEGA 1/0714/21 : Výskum vybraných vlastností trvalo udržateľných izolačných materiálov s potenciálom využitia v drevostavbách)

ADMB03 BUTVINOVÁ, Beata** - ŠVEC, Peter - FOS, Alen - JANOTOVÁ, Irena - ŠKOVIERA, Ján - MAŤKO, Igor. Effect of Short Annealing on Soft Magnetic Properties of Fe(Co)SnBP Alloys. In AIP Conference Proceedings, 2023, vol. 2778, art. no. 040002. (2022: 0.164 - SJR). (2023 - WOS, SCOPUS). ISSN 0094-243X. Dostupné na: https://doi.org/10.1063/5.0135922 (VEGA 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)

ADMB04 CLARK, M. J. - ALIA, O. - WANG, R. - BAHRANI, S. - PERANIĆ, M. - AKTAS, Djeylan - KANELLOS, G. T. - LONCARIC, M. - SAMEC, Ž. - RADMAN, A. - STIPCEVIC, M. - NEJABATI, R. - SIMEONIDOU, D. - RARITY, J. G. - JOSHI, S. K. Entanglement distribution quantum networking within deployed telecommunications fibre-optic infrastructure. In Proceedings of the SPIE : Quantum Technology: Driving Commercialisation of an Enabling Science III, 2023, vol. 12335, art. no. 123350E. (2022: 0.166 - SJR). ISSN 0277-786X. Dostupné na: https://doi.org/10.1117/12.2645095

ADMB05 ČERNIČKOVÁ, Ivona** - MIHALKOVIČ, Marek - ĎURIŠKA, Libor - ŠVEC, Peter Jr. - ŠVEC, Peter - JANOVEC, Jozef. Atomic models of εn structural variants - Overview. In AIP Conference Proceedings, 2023, vol. 2778, art. no. 040003. (2022: 0.164 - SJR). (2023 - WOS, SCOPUS). ISSN 0094-243X. Dostupné na: https://doi.org/10.1063/5.0135821 (VEGA 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov. APVV-20-0124 : Nové zliatiny s viacerými základnými prvkami – dizajn, charakterizácia a vlastnosti)

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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)

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Príloha A-4

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Mgr. Andrej Gendiar, PhD.
Názov semestr. predmetu: Kvantové simulácie a výpočty
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra teoretickej fyziky

prof. Ing. Štefan Luby, DrSc.
Názov semestr. predmetu: Technika budúcnosti
Počet hodín za semester: 2
Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Univerzita III. veku

Ing. Vojtech Nádaždy, CSc.
Názov semestr. predmetu: Nanotechnológie
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Inštitút nukleárneho a fyzikálneho inžinierstva

Mgr. Daniel Nagaj, PhD.
Názov semestr. predmetu: Selected topics from quantum information theory
Počet hodín za semester: 39
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK

Doc. RNDr. Martin Plesch, PhD.
Názov semestr. predmetu: Kvantové spracovanie informácie
Počet hodín za semester: 28
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, FMFI

Mgr. Michal Sedlák, PhD.
Názov semestr. predmetu: Programming quantum computers
Počet hodín za semester: 26
Názov katedry a vysokej školy: Masarykova univerzita Brno, ČR, Fakulta informatiky

RNDr. Ondrej Šauša, CSc.
Názov semestr. predmetu: Atómová a jadrová fyzika
Počet hodín za semester: 24
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra jadrovej chémie

RNDr. Ondrej Šauša, CSc.
Názov semestr. predmetu: Jadrové metódy vo výskume a praxi
Počet hodín za semester: 24
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra jadrovej chémie

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 measurement theory
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: Quantum structures
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: Selected topics from quantum information theory
Počet hodín za semester: 39
Názov katedry a vysokej školy: Masarykova univerzita Brno, ČR, Fakulta informatiky

Semestrálne cvičenia:

RNDr. Ondrej Šauša, CSc.
Názov semestr. predmetu: Cvičenia k jadrovým metódam vo výskume a praxi
Počet hodín za semester: 12
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra jadrovej chémie

RNDr. Ondrej Šauša, CSc.
Názov semestr. predmetu: Cvičenia z atómovej a jadrovej fyziky
Počet hodín za semester: 12
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra jadrovej chémie

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**
Česko					Vladimír Held	3
					Andrej Herzáň	1
					Vladislav Matoušek	1
					Naďa Mrkývková	3
					Martin Plesch	1
					Martin Plesch	3
					Martin Plesch	1
					Anton Repko	2
					Matúš Sedlák	1
					Peter Šiffalovič	3
Fínsko					Martin Venhart	4
Francúzsko	Ladislav Šamaj	12			Adriana Annušová	3
	Ladislav Šamaj	14			Adriana Annušová	3
	Karol Végsö	10			Naďa Mrkývková	3
					Vojtech Nádaždy	5
					Vojtech Nádaždy	5
					Karol Végsö	8
					Karol Végsö	10
					Karol Végsö	7
Nemecko	Simon Mičky	7			Mumtaz Manzoor	5
	Peter Nádaždy	8				
	Vojtech Nádaždy	6				
	Karol Végsö	8				
Poľsko					Peter Šiffalovič	5

Rakúsko	Igor Maťko	6				
	Peter Šiffalovič	5				
	Peter Šiffalovič	4				
Španielsko					Vladimír Held	4
Švajčiarsko	Erik Bartoš	14			Stanislav Dubnička	15
	Andrej Herzáň	6			Andrej Herzáň	3
	Andrej Herzáň	3			Andrej Herzáň	4
	Andrej Špaček	7			Andrej Herzáň	4
					Vladislav Matoušek	4
Taliansko					Andrej Herzáň	7
					Andrej Herzáň	7
					Mumtaz Manzoor	6
					Matúš Sedlák	4
Ukrajina					Taras Kavetskyy	24
Počet vyslaní spolu	**14**	**110**			**32**	**159**

(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**
Grécko					Dr. Tatiana Damatopoulous	6
					Prof. Evangelos Hristoforou	6
Nórsko					Mgr. Valmir Rodrigo da Silva	7
					Prof. Olexaner Roik , DrSc,	92
Rakúsko					Bc.Raffael Schifferegger	24
Španielsko					Mgr. Alonzo Campos Hernandez	132

Ukrajina					Prof Ihor Shatablavyi, DrSc.	20
Počet prijatí spolu					**7**	**287**

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

Krajina	**Názov konferencie**	**Meno pracovníka**	**Počet dní**
Česko	TAS 2023	Igor Maťko	2
	CEEC -TAC7	Igor Maťko	5
	Thermophysics 2023	Vlastimil Boháč	3
Francúzsko	Konferencia EMRS Meeting 2023	Vladimír Held	6
		Naďa Mrkývková	6
Izrael	ICQ 15	Marek Mihalkovič	7
		Marek Mihalkovič	7
Kanada	Shape Coexistence Workshop - 2023	Martin Venhart	7
Maďarsko	11th Visegrad Symposium	Ivan Klbik	4
Poľsko	Joint RQ 17 & ISMANAM 27	Irena Gejdoš Janotová	5
		Dušan Janičkovič	5
		Peter Švec	5
	Nano-Tech Poland 2023	Daniel Truchan	6
	Nanotech Poland 2023	Adriana Annušová	5
		Anna Kálosi	5
		Farnoush Salehtash	5
Rumunsko	Euroschool 2023	Monika Bírová	9
Slovinsko	ECMetAC days 2023	Marek Mihalkovič	4
Taliansko	ICTP -IAEA Workshop	Iryna Timchenko Prihodko	7
	Konferencia ECTP2023	Yuriy Plevachuk	6
	Konferencia LNL User Comunity Meeting 2023	Matúš Sedlák	4
	Mathematical Foundations of QML	Yuri Chernyak	6
		Ijaz Ahamed Mohammad	6
Turecko	ICSM	Peter Švec	6
		Peter Švec	6
USA	Konferencia CRYO 2023	Ivan Klbik	7
Veľká Británia	HOPV 2023	Vladimír Held	5
		Naďa Mrkývková	5
	Konferencia PSCO 2023	Vladimír Held	7
		Naďa Mrkývková	7
Spolu	**20**	**30**	**168**

vládnych dohôd

Skratky použité v tabuľke C:

TAS 2023 - Termoanalytický seminár TAS 2023
11th Visegrad Symposium - 11th Visegrad Symposium on Biomolecular Interaction
CEEC -TAC7 - 7th Central and Eastern European Conference on Thermal Analysis and Calorimetry
ECMetAC days 2023 - ECMetAC days 2023
Euroschool 2023 - Euroschool 2023
HOPV 2023 - HOPV 2023
ICQ 15 - 15. konferencia o kvazikryštáloch
ICSM - Konferencia ICSM
ICTP -IAEA Workshop - ICTP -IAEA Workshop on Simulation of Nuclear Reactor Data
Joint RQ 17 & ISMANAM 27 - Joint RQ 17 & ISMANAM 27
Konferencia CRYO 2023 - Konferencia CRYO 2023
Konferencia ECTP2023 - 22nd Conference on Thermophysical Properties
Konferencia EMRS Meeting 2023 - Konferencia EMRS Meeting 2023
Konferencia LNL User Comunity Meeting 2023 - Konferencia LNL User Comunity Meeting 2023
Konferencia PSCO 2023 - Konferencia PSCO 2023
Mathematical Foundations of QML - Mathematical Foundations of Quantum Machine Learning Summer School
Nano-Tech Poland 2023 - Nano-Tech Poland 2023
Nanotech Poland 2023 - Nanotech Poland 2023
Shape Coexistence Workshop - 2023 - Shape Coexistence, E0 Transitions, and Related Topics
Thermophysics 2023 - Konferencia Thermophysics 2023

Príloha A-6

Vedecko-popularizačná činnosť pracovníkov organizácie

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
MSc. Djeylan Vincent Ceylan Aktas, PhD.	M. Ziman	TL	Neprelomiteľná kvantová sieť sa na Slovensku stáva realitou	Trend, Humanisti.sk	31.1.2023
MSc. Djeylan Vincent Ceylan Aktas, PhD.	V. Bužek	IN	Viete, ako to vyzerá v laboratóriu kvantovej komunikácie?	CVTI SR	31.1.2023
Mgr. Erik Bartoš, PhD.		PB	Deň otvorených dverí FÚ SAV, v. v. i.	www.fu.sav.sk/dod	6.11.2023
Ing. Monika Bírová		TL	Deformácie atómových jadier	Quark	19.7.2023
Ing. Monika Bírová		PB	Deň otvorených dverí FÚ SAV, v. v. i.	www.fu.sav.sk/dod	8.11.2023
Ing. Monika Bírová		PB	ZŠ Raková - Navštív svoju školu - Spoznaj svojho vedca	https://zsrakova.edupage.org/news/?gtnid=2799#news-2799	18.10.2023
Ing. Monika Bírová	Denisa Lampášová	PB	Partners Family Day - demonštrácia fyzikálnych pokusov	https://youtu.be/kXKxq2o6aRw?t=73	25.6.2023
Prof. RNDr. Vladimír Bužek, DrSc.		RO	Kvantová komunikačná sieť	https://www.rtvs.sk/radio/archiv/11309/1994234	11.2.2023
Prof. RNDr. Vladimír Bužek, DrSc.		PB	Umenie kvanta	CVKI, FÚ SAV, v. v. i.	31.1.2023
Prof. RNDr. Vladimír Bužek, DrSc.	D. Aktas, M. Ziman	IN	Veda zblízka - CVKI SAV	https://www.youtube.com/watch?v=FFaVv4cNKns	3.6.2023
Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.		PB	Deň otvorených dverí FÚ SAV, v. v. i.	www.fu.sav.sk/dod	6.11.2023
prof. Ing. Štefan Luby, DrSc.		PB	V. Hajko - predseda SAV, budovateľ, vedec a učiteľ	Memoriál akad. V. Hajka, UPJŠ Košice 21. 9. 2023	2023
Doc. RNDr. Martin Plesch, PhD.		RO	Budúcnosť predmetových školských olympiád	https://slovensko.rtvs.sk/clanky/vzdelavanie/343642/buducnost-predmetovych-skolskych-olympiad	6.11.2023
Doc. RNDr. Martin Plesch, PhD.		TL	IBM vyvinul počítač, ktorý má viac ako tisíc kvantových bitov. Problémom je chybovosť výpočtov, upozorňuje fyzik	https://dennikn.sk/3736663/ibm-vyvinul-pocitac-ktory-ma-viac-ako-tisic-kvantovych-bitov-problemom-je-chybovost-vypoctov-upozornuje-fyzik/?ref=list	19.12.2023
Doc. RNDr. Martin Plesch, PhD.		TV	Minister školstva sľúbil pre predmetové olympiády viac peňazí	https://www.rtvs.sk/televizia/archiv/13982/432477#1568	4.11.2023
Doc. RNDr. Martin Plesch, PhD.		TV	Ocenili výnimočných pedagógov. Aké sú hlavné ciele Nadácie	https://www.ta3.com/relacia/909879/ocenili-vynimocnych-	8.11.2023

			Dionýza Ilkoviča?	pedagogov-ake-su-hlavne-ciele-nadacie-dionyza-ilkovica	
Doc. RNDr. Martin Plesch, PhD.	Pavol Demeš	IN	Rozhovor pre TASR TV kanál	https://youtu.be/trMMvMSQIz4	7.9.2023
Ing. Peter Švec, DrSc.	Irena Gejdoš Janotová, Peter Švec Jr., Dušan Janičkovič	EX	(Týž)Deň otvorených dverí FÚ SAV, v. v. i.	www.fu.sav.sk/dod	7.11.2023
RNDr. Kamil Tokár, PhD.		PB	Deň otvorených dverí FÚ SAV, v. v. i.	www.fu.sav.sk/dod	7.11.2023
Mgr. Martin Venhart, PhD.		TV	30 rokov SR v CERNe	RTVS	30.6.2023
Mgr. Martin Venhart, PhD.		TV	Analýzy 24: O význame vedy a výskumu i o tom, či by sa vedci mali viac zapájať do verejných diskusií	TV JOJ	26.6.2023
Mgr. Martin Venhart, PhD.		IN	Elektrická sieť by sa mohla zrútiť ako domček z kariet a hrozil by blackout	Trend	1.7.2023
Mgr. Martin Venhart, PhD.		TV	Experiment: Akú silu má atómová bomba?	RTVS	2.10.2023
Mgr. Martin Venhart, PhD.		TV	Experiment: Nobelove ceny	RTVS	9.10.2023
Mgr. Martin Venhart, PhD.		IN	Fyzika potrebuje revolúciu. Čakáme, odkiaľ príde	Podcast SME	4.11.2023
Mgr. Martin Venhart, PhD.		PB	Jadrová fúzia	Tabačka, Košice	29.11.2023
Mgr. Martin Venhart, PhD.		TV	Japonsko začalo vypúšťať rádioaktívnu vodu. Predstavuje tento krok hrozbu pre ekosystém?	TA3	24.8.2023
Mgr. Martin Venhart, PhD.		TV	Kam sa svet posunul od zhodenia atómovej bomby. Japonsko si pripomína smutné výročie	TA3	9.8.2023
Mgr. Martin Venhart, PhD.		RO	Kontakty: Ženy vo vede	RTVS	5.9.2023
Mgr. Martin Venhart, PhD.		IN	Malé modulárne reaktory majú budúcnosť v mnohých smeroch	Trend	24.6.2023
Mgr. Martin Venhart, PhD.		RO	Načo nám je magnetické pole Zeme?	RTVS	5.8.2023
Mgr. Martin Venhart, PhD.		RO	Nočná pyramída: Martin Venhart, Fyzikálny ústav SAV, v. v. i.	RTVS	20.9.2023
Mgr. Martin Venhart, PhD.		TL	Postaviť ľubovoľne veľkú štiepnu jadrovú bombu nie je možné,	Denník N	26.6.2023

			zato vodíkové nemajú limit, vraví fyzik Venhart		
Mgr. Martin Venhart, PhD.		PB	Rádioaktivita v každodennom živote	Víkend so SAV, Eurovea	24.6.2023
Mgr. Martin Venhart, PhD.		TV	Ranné správy: Slovenská akadémia vied má 70 rokov (od 1.15.15 h)	RTVS	23.6.2023
Mgr. Martin Venhart, PhD.		PB	Sólo pre technécium – Vivat scientia! Nech žije veda!	Mestské múzeum, ul. Dr. Herza 1, Lučenec	21.2.2023
Mgr. Martin Venhart, PhD.		RO	Umelé Slnko na Zemi? Vedcom sa podarilo potvrdiť prelomový experiment s čistou energiou	Rádio Expres	17.8.2023
Mgr. Martin Venhart, PhD.		TL	Vláda musí riešiť zdroje jadrového paliva. Slovensku ho dodáva výlučne ruský Rosatom	Trend	29.6.2023
Doc. Mgr. Mário Ziman, PhD.		IN	Slovenskí vedci vyvíjajú unikátny jednofotónový detektor, v Európe po nich bude obrovský dopyt	zive.aktuality.sk	29.3.2023
Doc. Mgr. Mário Ziman, PhD.		TV	Začala sa doba kvantová	TV JOJ	27.2.2023
prof. Ing. Štefan Luby, DrSc.		TL	K 30. výročiu samostatnej Slovenskej republiky	Literárny týždenník č. 7 - 8, 2023	1
prof. Ing. Štefan Luby, DrSc.		TL	Rozpad československej federácie a vznik Slovenskej republiky - prípad Slovenskej akadémie vied	Slovenské pohľady, ročník IV + 139, 2023(9 – 10), s. 59 – 68.	1
prof. Ing. Štefan Luby, DrSc.		TL	V náručí nanomedicíny	Quark	1
Doc. RNDr. Martin Plesch, PhD.		PB	Deň otvorených dverí FÚ SAV, v. v. i.	www.fu.sav.sk/dod	4
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*

Vyznamenania, ceny a iné ocenenia udelené organizácii a jej pracovníkom v roku 2023

Domáce ocenenia

Ocenenia SAV

Held Vladimír, **Jergel Matej, Mrkývková Naďa**, **Nádaždy Peter**, **Šiffalovič Peter, Végsö Karol**
Ocenenie špičkových publikácií v kategórii Nature Index publikácií
Oceňovateľ: SAV
Opis: Evolution of Structure and Optoelectronic Properties During Halide Perovskite Vapor Deposition (Vývoj štruktúry a optoelektronických vlastností halogenidového perovskitu počas vákuovej depozície), Journal of Physical Chemistry Letters, Vol. 13, no. 51 (2022), p. 11905-11912

Iné domáce ocenenia

Held Vladimír
Študentská osobnosť v akademickom roku 2022/2023
Oceňovateľ: Junior Chamber International – Slovakia
Opis: Ocenenie v kategórii Informatika a matematicko-fyzikálne vedy.

Medzinárodné ocenenia

Uvádzajte v štruktúre: názov ocenenia, udeľujúca inštitúcia, meno a priezvisko ocenenej osoby.