Fyzikálny ústav SAV, v. v. i.

Správa o činnosti organizácie SAV
za rok 2022

Bratislava
január 2023

Obsah

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	109	79	30	15	9	108	78.23	59.74	3.15

Vedeckí pracovníci	74	63	11	4	3	74	59.58	57.27	1
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	17	12	5	11	4	17	2.08	1.56	0.05
Odborní pracovníci VŠ (ostatní zamestnanci[2])	5	0	5	0	1	4	5.98	0.92	1
Odborní pracovníci ÚS	12	3	9	0	1	12	9.59	0	1.1
Ostatní pracovníci	1	1	0	0	0	1	1	0	0

[1] odmeňovaní podľa 553/2003 Z.z., príloha č. 5
[2] odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2022 (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 31.12.2022 (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 31.12.2022)

Rodová skladba	**Pracovníci s hodnosťou**				**Vedeckí pracovníci v stupňoch**		
	DrSc.	**CSc./PhD.**	**prof.**	**doc.**	**I.**	**II.a.**	**II.b.**
Muži	14	49	4	3	16	33	14
Ženy	1	11	0	0	1	6	4

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	5	0.2	7	3.7	10	9.1	8	6.1	9	5.1	2	2.0	3	2.2	12	11.5	13	9.4
Ženy	3	0.1	3	1.9	4	2.6	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	3	2.5

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

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2022

	Kmeňoví zamestnanci	**Vedeckí pracovníci**	**Riešitelia projektov**
Muži	50.6	53.3	50.7
Ženy	45.0	45.1	41.4
Spolu	49.1	52.1	49.1

1.3. Iné dôležité informácie k základným údajom o organizácii a zmeny za posledné obdobie (v zameraní, v organizačnej 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. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2022

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
			A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
	A	B	Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty VEGA	18	3	142166	143414	20884	20884	2335	6494
2. Projekty APVV	11	8	-	-	207827	212759	-	39378
3. Projekty EŠIF/OP ŠF	0	0	-	-	-	-	-	-
4. Projekty SASPRO, MoRePro, IMPULZ	2	0	72823	72823	-	-	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	1	0	-	-	10000	-	-	-

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

Tabuľka 2b Domáce projekty podané v roku 2022

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2022	Bratislava	5	4
2. Projekty výziev EŠIF podané r. 2022	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2022

Tabuľka 2c Medzinárodné projekty riešené v roku 2022

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organi-záciu	Spolu	Pre organi-záciu		
1. Projekty Horizont 2020 a Horizont Európa	0	2	-	-	-	-	-	57777
2. Projekty ERA.NET, ESA, JRP	0	3	-	-	-	-	75000	-
3. Projekty COST	0	2	-	-	-	-	-	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	1	-	1250	-	-	1667	35514
5. Projekty v rámci medzivládnych dohôd	1	2	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	2	0	-	-	-	-	-	-
8. Podpora MVTS z národných zdrojov okrem SAV (APVV a iné)	0	2	-	-	-	-	-	4375
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 2022

Tabuľka 2d Počet projektov Horizont Európa v roku 2022

	A	B
Počet podaných projektov Horizont Európa	-	1

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

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe B.

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

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2022

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

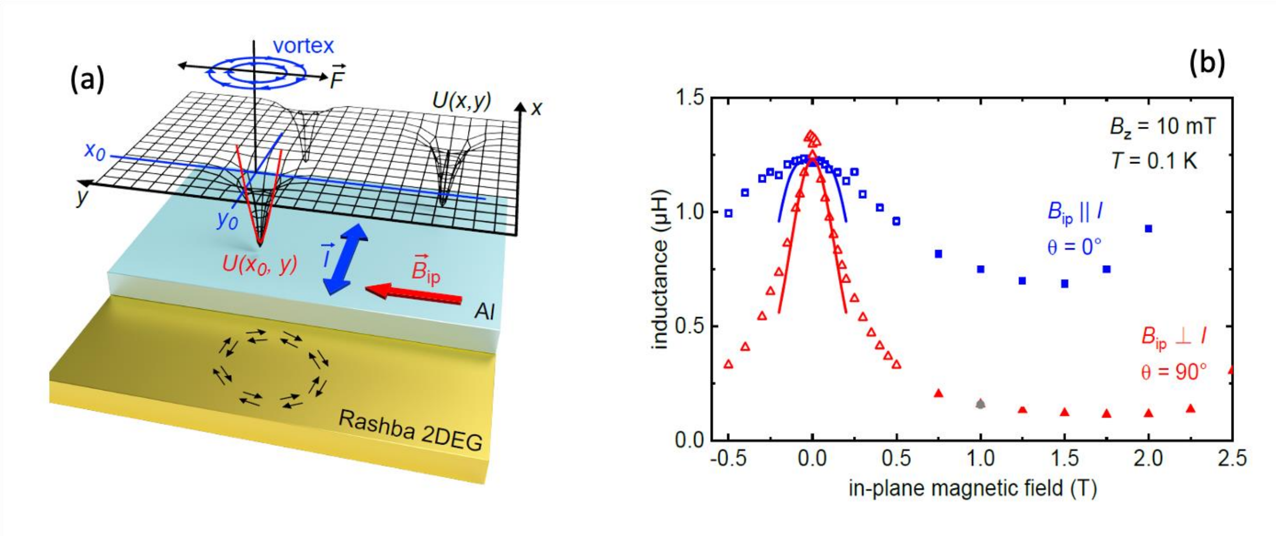
2.3.1. Výsledky na báze základného výskumu

Názov: Anizotropné deformácie vortexov v syntetických supravodičoch so spin-orbitálnou-interakciou Rashbovho typ

Autori: Denis Kochan et al. (IMPULZ-2021-26 - SUPERSPIN)

Abstrakt: Necentrosymetrické supravodiče predstavujú novú materiálovú platformu, ktorá umožňuje študovať supravodivé interakcie v prítomnosti silnej spinovo-orbitálnej väzby. Prítomnosť posledne menovanej modifikuje kvantomechanické vlastnosti kondenzátu Cooperových párov, ktoré sa dajú fenomenologický popísať pomocou nového člena v Landauovej-Ginzburgovej teórii, tzv. Lifšitcovým invariantom. Jeho prítomnosť modifikuje Landauove-Ginzburgove rovnice/parametre čo umožňuje kvalitatívne (a v istých rozmedziach aj kvantitatívne) popísať teplotné a magneto-termodynamické vlastnosti experimentálne pozorovaných javov akými sú efekt supravodivej diódy a anizotrópny squeezing Abrikosových vortexov v takýchto necentrosymetrických systémoch. V práci sme študovali necentrosymetrické kvázi-dvojrozmerné supravodivé heteroštruktúry založené na InAs/InGaAs a Al, v prítomnosti magnetických polí a striedavých prúdov. Zároveň sme demonštrovali praktickú realizáciu novej experimentálnej metódy, ktorá umožňuje merať indukčnú odpoveď Abrikosovových vortexov na striedavé prúdy. Naše výsledky jednoznačne dokazujú, že Abrikosove vortexy sa pod vplyvom magnetických polí stláčajú, pričom miera stlačenia je anizotrópna a závisí od vzájomnej orientácie polí a prúdov. Tento fakt bolo možné prirodzene vysvetliť ako dôsledok prítomnosti Lifšitcovho invariantu v rovniciach popisujúcich magneto-termodynamiku necentrosymetrických supravodičov.

1. FUCHS, L. - KOCHAN, Denis - SCHMIDT, J. - HÜTTNER, N. - BAUMGARTNER, C. - REINHARDT, S. - GRONIN, S. - GARDNER, G. C. - LINDEMANN, T. - MANFRA, M. J. - STRUNK, C. - PARADISO, N. Anisotropic Vortex Squeezing in Synthetic Rashba Superconductors: A Manifestation of Lifshitz Invariants. In Physical Review X, 2022, vol. 12, no. 4, 041020. (2021: 14.417 - IF, Q1 - JCR, 6.735 - SJR, Q1 - SJR). ISSN 2160-3308. Dostupné na: https://doi.org/10.1103/PhysRevX.12.041020 Typ: ADCA



Obr. (a) Schematický profil viazaných Abrikosovových vortexov v necentrosymetrickom supravodiči a vizualizácia síl, prúdov a magnetických polí, ktoré naň pôsobia. (b) Indukčnosť viazaných vortexov ako funkcia magnetického poľa pre dve konfigurácie: modré dáta magnetické pole paralelné s prúdom, červené dáta magnetické pole kolmé na testovací prúd.

Ďalšie výsledky bez udania poradia:

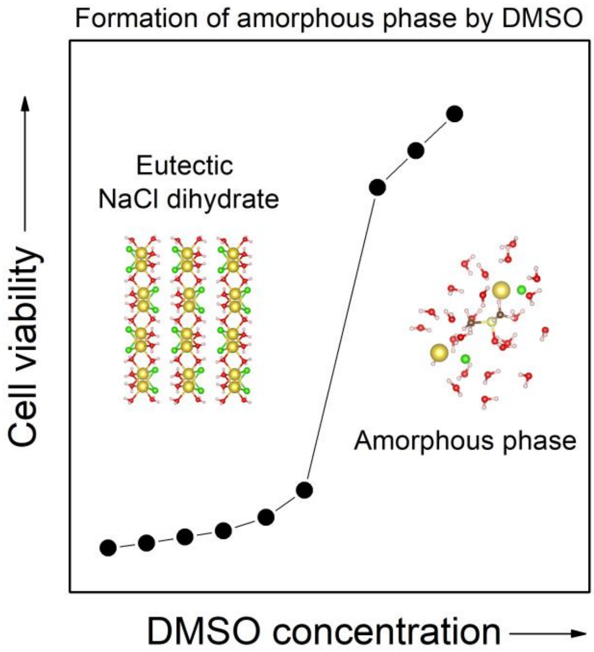
1. Charakterizácia organických polovodičov, Autori: K. Gmucová et al. (OMN)
2. Multi-rekurzívna numerická metóda tenzorových sietí, Autori: A. Gendiar et al. (CVKI)
3. Kvantovo-informačné aspekty entropických vzťahov neurčitosti, autori: H. Dolatkhah, M. Ziman (CVKI)
4. Využitie sofistikovaných modelov pre popis pozorovateľných veličín hadrónov, Autori: A. Liptaj et al. (OTF)
5. Kvantové technológie: Od teórie k praxi, Autori: M. Pivoluska et al. (OKFS)
6. Štúdium neutróno-deficitných izotopov Au, Autori: M. Venhart et al. (OJF)

2.3.2. Výsledky aplikačného typu

Názov: Zmrazovanie biologických buniek: vysvetlenie kryoprotektívneho účinku dimetylsulfoxidu

Autori: Ivan Klbik a kol. autorov oddelenia OFK (VEGA 2/0134/21, VEGA 2/0166/22, APVV-21-0335)

Abstrakt: V projekte sa zaoberáme mechanizmom kryoprotektívneho účinku dimetyl sulfoxidu – látky, ktorá sa používa ako aditívum na zvýšenie životaschopnosti zmrazovaných kmeňových buniek. Aplikácia týchto buniek má kľúčový význam v liečbe onkologických ochorení, kde si je pacient sám sebe darcom. Ukazuje sa, že životaschopnosť rozmrazených buniek dramaticky závisí na koncentrácii dimetyl sulfoxidu v bunkovom médiu. V našom výskume sme ukázali, že nástup kryoprotektívneho účinku zrejme súvisí so schopnosťou dimetylsulfoxidu potlačiť eutektickú kryštalizáciu solí prirodzene prítomných v bunkovom médiu. Namiesto kryštalickej eutektickej fázy, dochádza k tvorbe amorfnej koncentrovanej fázy solí a dimetylsulfoxidu, ktorá nepredstavuje riziko pre bunky. Tento výsledok predstavuje pokrok v pochopení základných kryobiologických javov a zároveň umožňuje optimalizáciu existujúcich a vývoj nových kryoprezervačných prístupov, čo sa potvrdilo aj v kryoprezervácii ľudských kožných buniek (keratinocytov) s možnou aplikáciou v tkanivovom inžinierstve – napr. v liečbe popálenín.



Obr. Obrázok znázorňujúci dramatickú závislosť životaschopnosti krvotvorných kmeňových buniek od koncentrácie dimetyl sulfoxidu v bunkovom médiu a mechanizmus jeho kryoprotektívneho účinku, ktorý súvisí s potlačením eutektickej kryštalizácie a tvorbou amorfnej fázy.

1. KLBIK, Ivan - ČECHOVÁ, Katarína - MILOVSKÁ, Stanislava - RUSNÁK, Jaroslav - VLASÁČ, Jozef - MELICHERČÍK, M. - MAŤKO, Igor - LAKOTA, Ján - ŠAUŠA, Ondrej. Cryoprotective mechanism of DMSO induced by the inhibitory effect on eutectic NaCl crystallization. In Journal of Physical Chemistry Letters, 2022, vol. 13, p. 11153-11159. (2021: 6.888 - IF, Q1 - JCR, 2.009 - SJR, Q1 - SJR). ISSN 1948-7185. Dostupné na: https://doi.org/10.1021/acs.jpclett.2c03003 Typ: ADCA
2. KLBIK, Ivan - ČECHOVÁ, Katarína - MAŤKO, Igor - LAKOTA, Ján - ŠAUŠA, Ondrej. On crystallization of water confined in liposomes and cryoprotective action of DMSO. In RSC Advances, 2022, vol. 12, no. 4, p. 2300-2309. (2021: 4.036 - IF, Q2 - JCR, 0.667 - SJR, Q1 - SJR). ISSN 2046-2069. Dostupné na: https://doi.org/10.1039/d1ra08935h Typ: ADCA
3. KLBIK, Ivan – ČECHOVÁ, Katarína – RUSNÁK, Jaroslav – ŠVAJDLENKOVÁ, Helena – MAŤKO, Igor, LAKOTA, Ján – ŠAUŠA, Ondrej. Cryopreservation of human keratinocytes by rapid freezing with non-permeant cryoprotectant. In Cryobiology, 2022, vol. 109, p. 53. (2021: 2.55 – IF, Q2 – JCR, 0.51 – SJR, Q2 - SJR) Dostupné na: https://doi.org/10.1016/j.cryobiol.2022.11.171 Typ: AEGA

2.3.3. Výsledky na báze medzinárodnej spolupráce

Názov: Štúdium hybridných perovskitových vrstiev pre optoelektronické aplikácie

Autori: Naďa Mrkývková a kol. autorov oddelenia OMN (SK-CZ-RD-21-0043, JP+V4, DAAD 2018-21 SK-CN-RD-18-0006)

Abstrakt: Hybridné halidové perovskity sa stali jedným z hlavných kandidátov pre novú generáciu solárnych článkov a svetelných diód. Vďaka vysokým fotoluminiscenčným kvantovým výťažkom (PLQY) perovskity účinne premieňajú injektované nosiče náboja na svetlo a naopak. Napriek tomu, že PLQY je relatívne vysoký, ďalšie zvyšovanie výkonu je obmedzené neradiačnými rekombináciami - buď prostredníctvom pascami podporovanej rekombinácie v aktívnej vrstve, alebo rekombináciou nosičov na rozhraní perovskitu a transportnej vrstvy.

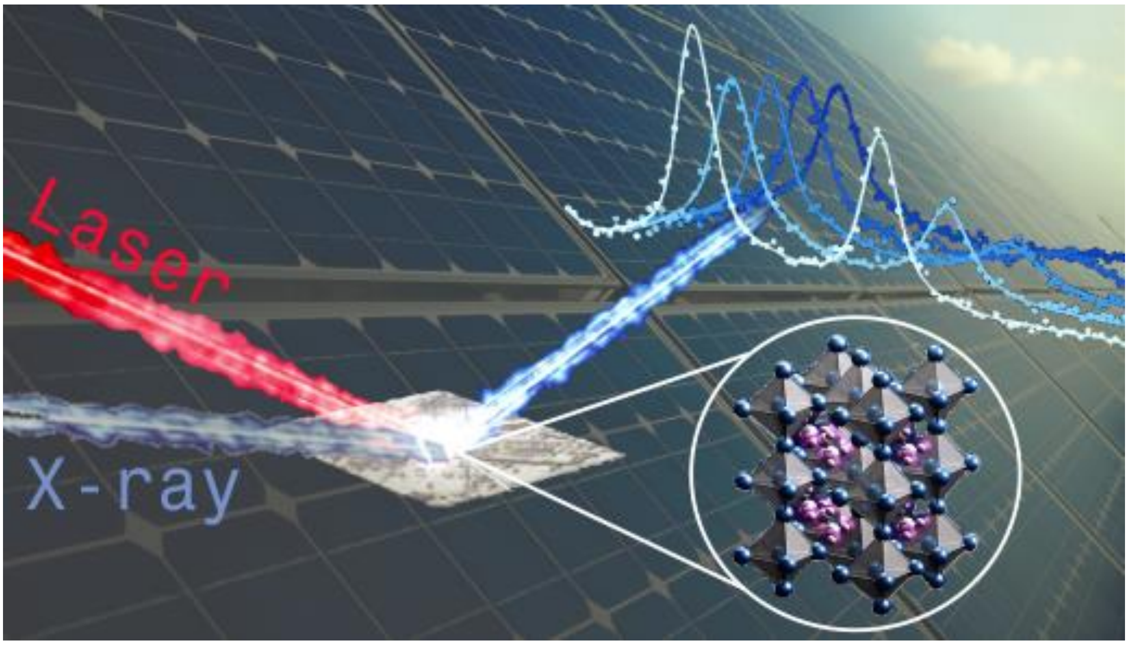
S cieľom optimalizovať prípravu perovskitovej vrstvy sme študovali kinetiku kryštalizácie, tvorbu defektov a ich vplyv na fotokonverziu metódou in-situ GIWAXS a meraním luminiscencie v reálnom čase, ktoré boli doplnené o ex-situ metódy a simulácie molekulárnej dynamiky [1, 2]. Ukázali sme pozitívny vplyv podkladovej 2D vrstvy ako grafén na rast silne texturovanej vrstvy 2D perovskitu [3] a podobný efekt sme dosiahli aj vhodnou prímesou prekurzora [4]. Zistili sme zásadný vplyv hraníc zŕn ako defektných centier pre nežiarivú rekombináciu v 3D perovskite pripravovanom z tekutého prekurzoru [2] aj pomocou vákuovej depozície [5]. Skúmali sme účinok morfológie substrátu (pyramidálny kremík) na zmenu fotoluminiscenčnej odozvy perovskitu. Zistili sme, že fotoluminiscenčná odozva súvisí skôr so zmenami hrúbky perovskitu než s mriežkovým napätím alebo zmenami zloženia. Na základe týchto poznatkov je možné navrhnúť tandemy perovskitu a kremíka, s účinnosťou konverzie energie > 28 % [6].

Osobitne sme sa venovali štúdiu defektov v uniformne orientovaných molekulárnych vrstvách metódou s-SNOM a ukázali sme, že optická amplitúda rozptýleného IR žiarenia poskytuje neskreslenú topografiu defektov v hybridných polovodičových vrstvách [7].

1. MRKÝVKOVÁ, Naďa, Tesařová - HELD, Vladimír - HALAHOVETS, Yuriy - NÁDAŽDY, Peter - JERGEL, Matej - MAJKOVÁ, Eva - SCHREIBER, F. - ŠIFFALOVIČ, Peter. Simultaneous measurement of X-ray scattering and photoluminescence during molecular deposition. In Journal of Luminescence, 2022, vol. 248, art. no. 118950. (2021: 4.171 - IF, Q2 - JCR, 0.640 - SJR, Q2 - SJR). ISSN 0022-2313. Dostupné na: https://doi.org/10.1016/j.jlumin.2022.118950 Typ: ADCA
2. MRKÝVKOVÁ, Naďa, Tesařová - HELD, Vladimír - NÁDAŽDY, Peter - SUBAIR, Riyas - MAJKOVÁ, Eva - JERGEL, Matej - VLK, Aleš - LEDINSKÝ, Martin - KOTLÁR, Mário - TIAN, Jianjun - ŠIFFALOVIČ, Peter. Combined in situ photoluminescence and X-ray scattering reveals defect formation in Lead-Halide Perovskite films. In Journal of Physical Chemistry Letters, 2021, vol. 12, no. 41, p. 10156-10162. (2020: 6.475 - IF, Q1 - JCR, 2.563 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1948-7185. Dostupné na: https://doi.org/10.1021/acs.jpclett.1c02869 Typ: ADCA
3. KOVARICEK, Petr - NÁDAŽDY, Peter - PLUHAROVA, Eva - BRUNOVÁ, Alica - SUBAIR, Riyas - VÉGSO, Karol - GUERRA, Valentino Libero Pio - VOLOCHANSKYI, Oleksandr - KALBAC, Martin - KRASNANSKY, Alexander - PANDIT, Pallavi - ROTH, Stephan Volker - HINDERHOFER, Alexander - MAJKOVÁ, Eva - JERGEL, Matej - TIAN, Jianjun - SCHREIBER, Frank - ŠIFFALOVIČ, Peter**. Crystallization of 2D Hybrid Organic-Inorganic Perovskites Templated by Conductive Substrates. In Advanced Functional Materials, 2021, vol. 31, no. 13, art. no. 2009007. (2020: 18.808 - IF, Q1 - JCR, 6.069 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1616-301X. Dostupné na: https://doi.org/10.1002/adfm.202009007 Typ: ADCA
4. XI, Jiahao - WANG, Hui - YUAN, Jifeng - YAN, Xiaoqin - ŠIFFALOVIČ, Peter - TIAN, Jianjun. High-quality α-FAPbI3 film assisted by lead acetate for efficient solar cells. In Solar

RRL, 2021, vol. 5, no. 12, 2100747. (2020: 8.582 - IF, Q1 - JCR, 2.540 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2367-198X. Dostupné na: https://doi.org/10.1002/solr.202100747 Typ: ADCA

5. HELD, Vladimír - MRKÝVKOVÁ, Naďa, Tesařová - NÁDAŽDY, Peter - VÉGSO, Karol - VLK, Aleš - LEDINSKÝ, Martin - JERGEL, Matej - CHUMAKOV, Andrei - ROTH, Stephan V. - SCHREIBER, Frank - ŠIFFALOVIČ, Peter. Evolution of Structure and Optoelectronic Properties During Halide Perovskite Vapor Deposition. In Journal of Physical Chemistry Letters, 2022, vol. 13, no. 51, p. 11905-11912. (2021: 6.888 - IF, Q1 - JCR, 2.009 - SJR, Q1 - SJR). ISSN 1948-7185. Dostupné na: https://doi.org/10.1021/acs.jpclett.2c03422 Typ: ADMA
6. 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, 2022, vol., art. no. 2205557. (2021: 19.924 - IF, Q1 - JCR, 5.000 - SJR, Q1 - SJR). ISSN 1616-301X. Dostupné na: https://doi.org/10.1002/adfm.202205557 Typ: ADMA
7. MRKÝVKOVÁ, Naďa, Tesařová - CERNESCU, A. - FUTERA, Z. - NEBOJSA, A. - DUBROKA, A. - SOJKOVÁ, Michaela - HULMAN, Martin - MAJKOVÁ, Eva - JERGEL, Matej - ŠIFFALOVIČ, Peter - SCHREIBER, F. Nanoimaging of orientational defects in semiconducting organic films. In Journal of Physical Chemistry C, 2021, vol. 125, no. 17, p. 9229–9235. (2020: 4.126 - IF, Q2 - JCR, 1.401 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1932-7447. Dostupné na: https://doi.org/10.1021/acs.jpcc.1c00059 Typ: ADCA



Obr. Perovskitové štruktúry pre solárne články. Pre zvýšenie ich efektivity je nutné študovať základné vlastnosti perovskitových vrstiev pokročilými technikami.

2.4. Publikačná činnosť (zoznam je uvedený v prílohe C)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2022/ doplnky z r. 2021
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	**0 / 0**
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	**0 / 0**
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	**1 / 0**
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	**2 / 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)	**90 / 5**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**15 / 2**
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	**0 / 0**
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	**1 / 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)	**9 / 0**
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	**0 / 0**
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	**0**
18. Ostatné vydané periodiká	**0**
19. Zostavovateľské práce knižného charakteru (FAI)	**1 / 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. 2021 (zdroj JCR) *Počet článkov / doplnky*	48 / 1	35 / 1	8 / 2	7 / 1	98 / 5
Podľa SJR z r. 2021 (zdroj Scimago) *Počet článkov / doplnky*	73 / 3	17 / 1	8 / 1	7 / 2	105 / 7

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2021/ doplnky z r. 2020
Citácie vo WOS (1.1, 2.1)	2984 / 1
Citácie v SCOPUS (1.2, 2.2)	52 / 0
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	3 / 1
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

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

2.6. Vyžiadané prednášky

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

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

Mgr. Andrej Gendiar, PhD.
25. 02. 2022, Entanglement in Strongly Correlated Systems 2022, Benasque, Spain, „When Entanglement Entropy Tends Not To Diverge“
28. 02. 2022, Entanglement in Strongly Correlated Systems 2022, Benasque, Spain, „Introduction to CTMRG“

prof. Ing. Štefan Luby, DrSc.
11. - 18. 3. 2022, Embrancing Digital Transformation for a Sustainable and Ethical Future, Maribor, Slovenia, „Nanoscience as a platform for innovation in information technology“
20. - 24. June 2022, ADEPT, Tatranská Lomnica, Slovakia, „Milestones in the development of nanoscience and nanotechnology“
17. - 20. 10. 2022, 1st Conf. Hydrogene in Biomedicine, Smolenice, Slovakia, „Hydrogen vs. graphene“

Mgr. Michal Sedlák, PhD.
17. – 21. 10. 2022, Third Kyoto Workshop on Quantum Information, Computation, and Foundations, org. online by Kyoto University, Japan „Incompatibility of quantum instruments“

Mgr. Martin Venhart, PhD.
30. 5. – 3. 6. 2022, Shapes and Symmetries in Nuclei: from Experiment to Theory, Orsay, France, „Possible electric monopole transitions in the 179Au isotope“

doc. Mgr. Mário Ziman, PhD.
26. 5. 2022, Workshop on Modern Trends in Quantum Theory, Praha, Czech republic, „Divisibility of quantum processes and stroboscopic simulations of quantum dynamics“

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

doc. Mgr. Mário Ziman, PhD.
29. 4. 2022, 52. Konferencia slovenských matematikov, Hotel Park, Dolný Kubín, „Doba kvantová“

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

Mgr. Leevi Leppäjarvi, PhD.
27. 1. 2022, Perimeter Institute's Quantum Foundations Seminar (online), „Detecting nonclassicality in restricted general probabilistic theories“
31. 3. 2022, Quantum Information and Foundations seminar (online), University of Turku, Finland, „Detecting nonclassicality in restricted general probabilistic theories“
7. 4. 2022, seminar talk (online), Centre for Quantum Technologies, National University of Singapore, „Detecting nonclassicality in restricted general probabilistic theories“
17. 5. 2022, Mathematical Physics Seminar, Institut de Mathématiques de Toulouse, France, „Detecting nonclassicality in restricted general probabilistic theories“
2. 11. 2022, guest seminar talk, Theoretical Quantum Optics, University of Siegen, Germany, „Detecting nonclassicality in restricted general probabilistic theories“

Mgr. Roman Krčmár, PhD.
11. 2. 2022, NCTS TG4.1 HPCML "CompQu" Seminar Series, Taipei, Taiwan, „Ising ferromagnets and antiferromagnets in an imaginary magnetic field“
prof. Ing. Štefan Luby, DrSc.
16. 11. 2022, Fakulta elektrotechniky a informatiky STU, Bratislava, Slovensko, „Aplikácie nanovedy v medicíne“
Ing. Peter Švec, DrSc.
14. 11. 2022, ITRI-SAS Webinar on Innovation Technologies, „Magnetoelastic deformation sensor“

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2022

2.7.1. Vynálezy, na ktoré bol v roku 2022 udelený patent

a) na Slovensku

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2022

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 2022

b) udelené v roku 2022

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 2022 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

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

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Bartoš Erik	VEGA	1
Boháč Vlastimil	KEGA	1
Butvinová Beata	VEGA	3
Kalinay Pavol	VEGA	1
Venhart Martin	VEGA	2

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 1 (Š. Luby 41 hesiel)

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
Annušová Adriana	0	0	3	0	0	0	0
Bartoš Erik	0	0	1	0	0	0	0
Boháč Vlastimil	0	0	3	0	0	0	2
Butvinová Beata	0	0	2	0	0	0	2
Davalos Gonzalez David	0	0	2	0	0	0	0

Gendiar Andrej	0	0	5	0	0	0	0
Gmucová Katarína	0	0	4	0	0	0	1
Jergel Matej	0	0	6	0	0	0	0
Kalinay Pavol	0	0	5	0	0	0	0
Leppäjärvi Leevi Ilmari	0	0	2	0	0	0	0
Luby Štefan	3	0	1	0	0	0	0
Nádaždy Vojtech	0	0	4	0	0	0	0
Nagaj Daniel	0	0	1	0	0	0	0
Plesch Martin	0	0	10	0	0	0	0
Repko Anton	0	0	1	0	0	0	0
Sedlák Michal	0	0	1	0	0	0	0
Švec Peter	0	0	5	0	0	0	0
Ziman Mário	0	0	9	0	0	0	0
Spolu	**3**	**0**	**65**	**0**	**0**	**0**	**5**

2.11. Iné informácie k vedeckej činnosti.

V júli 2022 ukončil svoju aktivitu časopis Acta Physica Slovaca vydávaný na pôde Fyzikálneho ústavu. Medzinárodne uznávaný časopis od svojho vzniku v r. 1950 opublikoval množstvo vedeckých prác slovenských aj zahraničných prispievateľov. Od r. 1998 bol evidovaný v Current Contents a od r. 2006 Acta Physica Slovaca publikoval prehľadové a výukové články. V ostatnom čase ekonomická aj personálna poddimenzovanosť donútila redakčnú radu ukončiť vydávanie časopisu.

3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku

3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2022

Forma	Počet k 31.12.2022				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2022					
							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	13	6	2	1	3	4	0	1	2	0	0	0
Denná z iných zdrojov	2	1	0	0	1	1	0	0	1	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0	0	0
Spolu	15	7	2	1	4	5	0	1	3	0	0	0
Z toho zahraničných	9	4	2	1	1	3	0	0	3	0	0	0
Súhrn	22		3		9		1		3		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 2022 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.

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b 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

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2022 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. Alica Brunová	interné štúdium hradené z prostriedkov SAV	9 / 2018	8 / 2022	4.1.4 kvantová elektronika a optika	Dr. Rer. Nat. Peter Šiffalovič DrSc., Fyzikálny ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK

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

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2022 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

3.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 3e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2022 (obhajoba leto 2022)	z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	z toho koľkí boli nejaký čas nezamestnaní
1	0	1	0	0

Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.6. Medzinárodné doktorandské štúdium

Tabuľka 3f Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
1	0	0	IND/5, PAK/5, IRN/2, BRA/1, KAZ/1, MEX/1, SRB/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.

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

Tabuľka 3g 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	teoretická fyzika a matematická fyzika	Fakulta matematiky, fyziky a informatiky UK
fyzika	1160	jadrová a subjadrová fyzika	Fakulta matematiky, fyziky a informatiky UK
fyzika	1160	fyzika kondenzovaných látok a akustika	Fakulta matematiky, fyziky a informatiky UK
fyzika	1160	kvantová elektronika a optika a optická spektroskopia	Fakulta matematiky, fyziky a informatiky UK
chémia	1420	jadrová chémia a rádioekológia	Prírodovedecká fakulta UK
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		Fakulta matematiky, fyziky a informatiky UK
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
fyzikálne inžinierstvo	5.2.48		Fakulta elektrotechniky a informatiky STU

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 3h 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
Ing. Vlastimil Boháč, CSc. (fyzikálne inžinierstvo)	Prof. RNDr. Vladimír Bužek, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	
Prof. RNDr. Vladimír Bužek, DrSc. (všeobecná fyzika a matematická fyzika)	prof. Ing. Štefan Luby, DrSc. (Alma Mater Europaea Ascoli Piceno, Taliansko)	
RNDr. Stanislav Dubnička, DrSc. (všeobecná fyzika a matematická fyzika)	prof. Ing. Ivan Štich, DrSc. (Fakulta prírodných vied UCM)	
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)		
Ing. Štefan Lányi, DrSc. (elektronika)		
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)		

3.8. Údaje o pedagogickej činnosti

Tabuľka 3i Prednášky a cvičenia vedené v roku 2022

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	6	1	0	0
Celkový počet hodín v r. 2022	320	26	0	0

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

Tabuľka 3j Aktivity pracovníkov na VŠ

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

3.9. 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 s funkčným obdobím od 26. mája 2022 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.

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2022 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

APCOM 2022 – Applied Physics of Condensed Matter, Štrbské Pleso, Slovensko, 21.06.-23.06.2022

SSSI 2022 – Solid State Surfaces and Interfaces 2022, Zámok Smolenice, Slovensko, 21.11.-23.11.2022

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2023 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Bačová Silvia	0	0	1
Boháč Vlastimil	1	0	0
Brunner Róbert	0	0	1
Luby Štefan	2	0	0
Pinčík Emil	0	0	1
Švec Peter	1	0	0
Spolu	4	0	3

4.2. Členstvo a funkcie v medzinárodných orgánoch

4.2.1. 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)

Ing. Štefan Lányi, DrSc.

Česká společnost pro nové materiály a technologie (funkcia: člen)
Materials Research Society (funkcia: 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. 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)

4.3. Účasť expertov na hodnotení medzinárodných projektov (EÚ RP, ESF a iných)

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Plesch Martin	Erasmus +	6
Venhart Martin	European Research Council (ERC) Consolidator Grant	1

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

Situácia s mobilitou sa po pandémii Covid-19 vracia do normálnych pracovných koľají, a umožňuje plnohodnotnú medzinátornú vedeckú spoluprácu. Medzi najvýznamnejšie prínosy mobility patria výsledky popísané v časti 2.3, najmä ocenené výsledky na báze medzinárodnej spolupráce kolegyne N. Mrkývkovej a kol. autorov oddelenia OMN. Taktiež v oblasti jadrovej fyziky naši kolegovia z OJF pokračujú na aktívnej realizácii vlastných experimentov v Jyväskylä (Fínsko) a CERN. Vojnový konflikt na Ukrajine mal negatívny dopad na spoluprácu pracovníkov (OTF, OJF) s pracoviskom SÚJV v Dubne (Rusko). Kolegom z CVKI sa podarilo získať vo výzve euroQCI projekt, ktorého riešenie začne od januára 2023.

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe E.
Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe B.

5. Koncepcia dlhodobého rozvoja organizácie

Koncepcia dlhodobého rozvoja dlhodobo naráža na nestabilitu a nejasnosť podpory výskumu v SR. K malej zmene došlo v tomto roku, kedy prebehlo periodického hodnotenia výskumnej, vývojovej, umeleckej a ďalšej tvorivej činnosti verejných vysokých škôl aj verejných výskumných inštitúcií (VVI) za obdobie 2014 — 2019. Dôsledky výstupov periodického hodnotenia na rozvoj VVI nie sú zatiaľ zrejmé.

5.1. Odporúčania z posledného pravidelného hodnotenia organizácií SAV (akreditácie)

V r. 2022 taktiež prebehlo pravidelné hodnotenie organizácií SAV za obdobie 2016 — 2021. 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.

5.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

V napĺňaní hlavných bodov akčného plánu sme pokračovali aj v r. 2022, a to najmä činnosťami:

- Prijali sme 4 nových PhD študentov. Počty študentov PhD financovaných z centrálnych zdrojov SAV sa snažíma napĺňať na maximum, napriek zdĺhavejším administratívno-technickým problémom pri vybavovaní ich dokumentov.
- Prebehlo už druhé výberové konanie na ústavom financovanú pozíciu „IP SAS Fellow“. Napriek výberu kvalitného zahraničného výskumníka, jeho príchod sa z nami neovplyvniteľných príčin nepodarilo uskutočniť.
- Na základe vypracovej smernice, boli koncom roka špeciálne odmenené publikácie s vysokým impakt faktorom a s vysokým počtom citácií na jednu publikáciu.
- Udržujeme trend internacionalizácie ústavu, zhruba pätina výskumných pracovníkov je zo zahraničia, primárne najmä na úrovni doktorandov a postdoktorandov.
- Pokračujem v získavaní finančných prostriedkov z národných zdrojov (VEGA, APVV), podarilo sa nám získať štipendistu na program Impulz, financovaný zo zdrojov SAV.

5.3. Aktualizácia Akčného plánu organizácie v roku 2022

Počas roka nedošlo k aktualizácii akčného plánu. Opierajúc sa o výsledky akreditácie, vypracovanie nového akčného plánu bude prioritou vedenia FÚ na rok 2023.

6. Spolupráca s univerzitami/vysokými školami a inými subjektmi v oblasti vedy a techniky, okrem aktivít uvedených v kap. 2, 3, 4

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 nanoštruktúr.

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 skalných obydlí v Brhlovciach.

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

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

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

6.1.2. Spoločné pracoviská s inými organizáciami SAV

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

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

Názov projektu: Monitorovanie tuhnutia betónových zmesí
Agentúra:
číslo projektu:
Spolupracujúce inštitúcie: Technický a skúšobný ústav stavebný, n.o. Bratislava
Koordinátor projektu:
Začiatok spolupráce: 2010
Zhodnotenie: Pripravujú sa spoločné projekty ktoré zabezpečia finančný efekt pre FÚ a zároveň umožnia nadviazať užšie kontakty so stavebnými organizáciami. (kontakt FÚ: J. Hudec)

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

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.

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

Food and Environmental Sciences, University of Basilicata,Viale dell'AteneoLucano 10, 85100 Potenza, Italy. Thermal properties investigation of wooden materials and wood composites. Contact person L. Todaro (luigi.todaro@unibas.it)

7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi

7.1. Výsledky výskumu organizácie aplikované v spoločenskej a hospodárskej praxi

7.2. 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

7.3. Iné formy aplikácie výsledkov výskumu v spoločenskej a hospodárskej praxi

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

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.	European Committee for Future Accelerators (ECFA) Early-Career Researcher (ECR) Panel, ECFA-ECR	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	clen
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. Vedecko-organizačné a popularizačné aktivity

9.1.Vedecko-popularizačná činnosť

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	16	tlač	17	TV	2
rozhlas	6	internet	9	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	4				

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
SFS – 26. konferencia slovenských fyzikov	domáca	Košice, Slovensko	05.09.-08.09.2022	90
Miniworkshop on superconductivity	domáca	Bratislava, Slovensko	03.10.-05.10.2022	20
APCOM 2022 – Applied Physics of Condensed Matter	medzinárodná	Štrbské Pleso, Slovensko	21.06.-23.06.2022	-
SSSI 2022 – Solid State Surfaces and Interfaces 2022	medzinárodná	Zámok Smolenice, Slovensko	21.11.-23.11.2022	-

9.3. Účasť na výstavách

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Gmuca Štefan	0	1	0
Kochan Denis	0	0	1
Spolu	0	1	1

9.5. Členstvo v redakčných radách časopisov

Ing. Vlastimil Boháč, CSc.

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

Prof. RNDr. Vladimír Bužek, DrSc.

European Physical Journal D (funkcia: editor)
Journal of Modern Optics (funkcia: člen redakčnej rady)

RNDr. Stanislav Dubnička, DrSc.

MEDICUS (funkcia: člen red. rady)

Mgr. Andrej Gendiar, PhD.

Acta Physica Slovaca (funkcia: výkonný redaktor)

Ing. Štefan Lányi, DrSc.

Československý časopis pro fyziku (funkcia: člen RR)

prof. Ing. Štefan Luby, DrSc.

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

Doc. RNDr. Martin Plesch, PhD.

IYPT Magazine (funkcia: člen Advisory Board)
Nature Scientific Reports (funkcia: člen Editorial board)

prof. Ing. Ivan Štich, DrSc.

Acta Physica Slovaca (funkcia: editorial board)

Ing. Peter Švec, DrSc.

Journal of Materials Science and Technology (funkcia: člen redakčnej rady)
PAR - Pomiary-Automatyka-Robotyka (funkcia: člen programového výboru)

9.6. Činnosť v domácich vedeckých spoločnostiach

Mgr. Erik Bartoš, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Juraj Boháčik, CSc.

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)

Ing. Štefan Lányi, DrSc.

Slovenská fyzikálna spoločnosť (funkcia: predseda revíznej komisie)

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)

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

V roku 2022 sa naši pracovníci zapájali do popularizácie vedy, a najmä fyziky, 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/index.php?id=media).

V letnom týždni 18. — 22. 08. 2022 Denisa Lampášová participovala na organizácii Letnej školy mladých vedcov v sekcii Fyzika a Informácia pre troch základoškolákov.

V rámci podujatia Týždeň vedy a techniky na Slovensku, 7. — 11. 11. 2022 FÚ SAV, v. v. i. zorganizoval vlastný „(Týž)Deň otvorených dverí na FÚ SAV 2022“ určený širokej verejnosti, ale najmä študentom stredných a vysokých škôl. Aktivita zahŕňala prednášky a návštevy 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 v škole. Celkom sa uskutočnilo 12 prednášok našich pracovníkov na témy
Andrej Liptaj: „Zobrazovanie pomocou magnetickej rezonancie“
Andrej Liptaj: „Fyzika hudby“
Martin Plesch: „Ako veci fungujú“
Martin Plesch: „Rumburakov neviditeľný plášť“
Martin Venhart: „Sólo pre technécium“
Mário Ziman: „Kvantové technológie“

Celkovo sa uskutočnilo 8 prehliadok laboratórií, ktoré sa po dohode uskutočnili aj mimo rámec daného týždňa s cieľom vyjsť školám v ústrety. Podujatia DOD sa zúčastnili žiaci piatich gymnázií z Bratislavy a Prešova. Na ústav prišli však aj dvaja jednotlivci, ktorým boli prezentovaná prednáška podľa ich výberu a návšteva laboratórií.

Do prehliadok laboratórií bolo zapojené Oddelenie multivrstiev a nanoštruktúr a Oddelenie fyziky kovov, menovite kolegyne a kolegovia Adriana Annušová, Yuriy Halahovets, Veronika Hegedúšová, Anna Kálosi, Simon Mičky, Daniel Truchan, Karol Végsö a Irena Gejdoš Janotová, Dušan Janičkovič, Peter Švec, Peter Švec ml. Koordinátormi DOD boli Denisa Lampášová a Andrej Liptaj.

Pracovníci sa do vedeckých súťaží pre študentov stredných škôl zapájali aj prostredníctvom organizácie Turnaja mladých fyzikov (TMF) aj pri koordinácii projektu "Rozvoj učenia založeného na bádaní pomocou IYPT" (Martin Plesch), ktorý bol v záverečnom vyhodnotený zaradený medzi príklady dobrej praxe. Účasť študentov na TMF pomáha rozvíjať nielen ich hlboké znalosti fyziky, ale aj tzv. mäkké zručnosti, ako je tímová práca a vzájomná komunikácia.

Martin Venhart poskytol značné množstvo komentárov k aktuálnej situácii v okupovanej Záporožskej jadrovej elektrárni a k hrozbám použitia jadrových zbraní zo strany Ruskej federácie.

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		9593
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		1
v tom	kúpou	1
	darom	
	výmenou	
	bezodplatným prevodom	
	náhradou	
Úbytky knižničných jednotiek		
Knižničné jednotky spracované automatizovane		1378

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

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu (riadok 1)		387
v tom z r. 1	prezenčné výpožičky	312
	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

10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	105
Návštevníci knižnice spolu (bez návštevníkov podujatí)	98

10.4. Iné údaje

Tabuľka 10d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	1
Náklady na nákup knižničného fondu v €	127,5

10.5. 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.

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

RNDr. Katarína Gmucová, CSc.

- členka
- predsedníčka I. komory
- podpredsedníčka Snemu SAV

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

Mgr. Martin Venhart, PhD.

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

11.3. 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 príležitostí (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)

11.4. Členstvo v orgánoch VEGA

Mgr. Cyril Adamuščín, PhD.

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

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)

12. Hospodárenie organizácie

12.1. Výdavky organizácie

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2022 v €)

Typ organizácie (v. v. i.)		**Zdroje, z ktorých sa kryli jednotlivé výdavky**			
Výdavky	**Spolu**	**kapitola SAV (111)**	**iné štátne a verejné zdroje**	**ostatné zdroje**	**% krytia z kapitoly SAV**
1. Bežné výdavky	3294320	2585912	390327	318081	78.50
z toho: mzdy (610)	1707911	1500403	106655	100853	87.85
vedecká výchova štipendiá (640)	238362	210075	13758	14529	88.13
poistné a príspevok do poisťovní (620)	588883	518903	36464	33516	88.12
tovary a služby (630)	759164	356531	233450	169183	46.96
transfery partnerom projektov (640)	152062	57160	66522	28380	37.59
2. Kapitálové výdavky	3446382	34166	0	24527	0.99
z toho: obstarávanie kapitálových aktív	58693	34166	0	24527	58.21
kapitálové transfery					

12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2022 v €)

Typ organizácie (v. v. i.)		**Z toho kategórie**			
Zdroje	**Spolu**	**Kapitálové zdroje**	**zdroje na mzdy (610)**	**zdroje na odvody do poisťovní (620)**	**zdroje na transfery partnero m projektov**
1. kapitola SAV (111)	1118320	34166	1500402	518903	5587
z toho: VEGA	174263	0	0	0	5587
MVTS výskumné projekty	113926	20666	0	0	0
MVTS podpora					
SASPRO/MOREPRO	26679	13500	14186	4994	0
Vydávanie časopisov					
Vedecká výchova (štipendiá)	238362	0	0	0	0

OTAS (630)	565090	0	0	0	0
2. ŠF EÚ vr. fin. zo ŠR	84954	0	63213	21741	0
3. medzinárodné grantové projekty	167489	0	0	0	0
z toho: H2020	2500	0	0	0	0
4. iné štátne a verejné zdroje (spolu)	456849	0	106655	36464	66522
z toho: APVV	384810	0	91930	31657	60892
podpora z kapitoly MŠVVaŠ SR (stimuly)					
5. ostatné zdroje	370990	24527	100853	33516	28380
z toho: príjmy z prenájmu	14893	0	0	0	0
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb	35238	0	0	0	0

13. Nadácie a fondy pri organizácii SAV

14. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

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

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.

14.2. Rodová skladba hlavných riešiteľov (vedúcich) projektov

Tabuľka 14a 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	18	16	2	3	3	0
2. Projekty APVV	11	7	4	8	7	1
3. Projekty EŠIF/OP ŠF	0	0	0	0	0	0
4. Projekty SASPRO, MoRePro, IMPULZ	2	2	0	0	0	0
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	1	1	0	0	0	0

Tabuľka 14b 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	0	0	0	2	2	0
2. Projekty ERA.NET, ESA, JRP	0	0	0	3	3	0
3. Projekty COST	0	0	0	2	2	0
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	1	0	1	1	0
5. Projekty v rámci medzivládnych dohôd	1	1	0	2	2	0
6. Bilaterálne projekty MAD, Mobility, Open Mobility	0	0	0	0	0	0
7. Bilaterálne projekty ostatné	2	2	0	0	0	0
8. Podpora MVTS z národných zdrojov okrem SAV (APVV a iné)	0	0	0	2	2	0
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	0	0	0	0
10. Iné projekty	0	0	0	0	0	0

14.3. 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 C.

15. Iné významné činnosti organizácie SAV

16. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2022

16.1. Domáce ocenenia

16.1.1. Ocenenia SAV

Mrkývková Naďa
Ocenenie špičkových publikácií
Oceňovateľ: SAV
Opis: Ocenenie v kategórii špičkových publikácií v časopisoch a publikácií v časopisoch Nature index a Nórskeho zoznamu

16.1.2. Iné domáce ocenenia

Luby Štefan
Pamätný kríž Spoločnosti M. R. Štefánika
Oceňovateľ: Spoločnosť M. R. Štefánika
Opis: Kríž na stuhe, diplom

16.2. Medzinárodné ocenenia

17. Poskytovanie informácií v súlade so zákonom č. 211/2000 Z. z. o slobodnom prístupe k informáciám v znení neskorších predpisov (Zákon o slobode informácií)

Dátum podania	Meno žiadateľa	Vyžiadaná informácia a spôsob jej poskytnutia	Forma prijatia	Výsledok a spôsob vybavenie žiadosti
03. 08. 2022	doc. RNDr. Martin Plesch, PhD.	Poskytnutie zápisnice z rokovaní SR FÚ SAV, v. v. i. v roku 2022 – prezenčne, kópie	email	Formálne nebola vybavená. Informácia prístupná v Intranete.
27. 12. 2022	doc. RNDr. Martin Plesch, PhD.	Poskytnutie odpočtu mzdových prostriedkov za r. 2022 a nápočet mzdových prostriedkov na r. 2023 – email	email	Existujúce informácie boli poskytnuté. Požadované reálne vyplatené príjmy zo zdroja oddelenia pre jednotlivých zamestnancov oddelenia neboli poskytnuté z dôvodu, že tieto informácie nie sú týmto spôsobom vyžiadateľné.

18. Problémy a podnety pre činnosť SAV

Správu o činnosti organizácie SAV spracoval(i):

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

Schválila vedecká rada organizácie SAV dňa 31.1.2021

Riaditeľ organizácie SAV	**Predseda vedeckej rady**
....	....
Doc. Mgr. Mário Ziman, PhD.	Mgr. Erik Bartoš, PhD.

Prílohy

Príloha A
Zoznam zamestnancov a doktorandov organizácie k 31.12.2022

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.	75	0.75
3.	Prof.RNDr. Miroslav Grajcar, DrSc.	25	0.23
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.	Ing. Štefan Lányi, DrSc.	25	0.25
9.	prof. Ing. Štefan Luby, DrSc.	100	1.00
10.	RNDr. Eva Majková, DrSc.	50	0.50
11.	RNDr. Miroslav Nagy, DrSc.	35	0.35
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	0.73
15.	Ing. Peter Švec, DrSc.	100	1.00
Vedúci vedeckí pracovníci CSc., PhD.			
1.	Mgr. Andrej Gendiar, PhD.	100	1.14
2.	RNDr. Stanislav Hlaváč, CSc.	50	0.19
Samostatní vedeckí pracovníci			
1.	MSc. Djeylan Vincent Ceylan Aktas, PhD.	100	1.00
2.	Mgr. Adriana Annušová, PhD.	70	0.70
3.	Mgr. Erik Bartoš, PhD.	100	1.00
4.	Ing. Vlastimil Boháč, CSc.	100	1.00
5.	RNDr. Juraj Boháčik, CSc.	20	0.20
6.	RNDr. Beata Butvinová, CSc.	100	1.00
7.	Mgr. Peter Filip, PhD.	20	0.20
8.	Ing. Irena Gejdoš Janotová, PhD.	50	0.50
9.	Mgr. Seyed Arash Ghoreishi, PhD.	100	0.58

10.	Ing. Štefan Gmuca, CSc.	70	0.70
11.	RNDr. Katarína Gmucová, CSc.	100	1.00
12.	Mgr. Andrej Herzáň, PhD.	100	1.00
13.	RNDr. Monika Hofbauerová, PhD.	70	0.73
14.	RNDr. Pavol Kalinay, CSc.	100	1.00
15.	Mgr. Roman Krčmár, PhD.	100	1.00
16.	Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.	100	1.00
17.	RNDr. Lubomir Martinovič, CSc.	100	1.00
18.	RNDr. Igor Maťko, CSc.	100	1.00
19.	Ing. Vladislav Matoušek, CSc.	100	1.00
20.	RNDr. Marek Mihalkovič, CSc.	100	1.00
21.	RNDr. Naďa Mrkývková, PhD.	70	0.70
22.	Ing. Vojtech Nádaždy, CSc.	100	1.00
23.	Mgr. Daniel Nagaj, PhD.	33	0.33
24.	Mgr. Pavol Neilinger, PhD.	20	0.23
25.	RNDr. Emil Pinčík, CSc.	100	1.00
26.	RNDr. Matej Pivoluska, PhD.	100	0.99
27.	Doc. RNDr. Martin Plesch, PhD.	100	1.00
28.	Mgr. Ashutosh Rai, PhD.	10	0.00
29.	RNDr. Anton Repko, PhD.	100	1.00
30.	Mgr. Michal Sedlák, PhD.	100	1.00
31.	Ing. Mgr. Peter Staňo, PhD.	20	0.22
32.	RNDr. Ondrej Šauša, CSc.	100	1.00
33.	Ing Peter Švec Jr., PhD.	100	1.00
34.	Ing. Igor Travěnec, CSc.	100	1.00
35.	RNDr. Robert Turanský, PhD.	100	1.00
36.	Mgr. Karol Végsö, PhD.	90	0.90
37.	Mgr. Martin Venhart, PhD.	50	0.50
38.	Ing. Viliam Vretenár, PhD.	33	0.33
39.	Doc. Mgr. Mário Ziman, PhD.	100	1.00
Vedeckí pracovníci			
1.	RNDr. Róbert Brunner, CSc.	100	1.00
2.	Mgr. Katarína Čechová, PhD.	10	0.10
3.	Mgr. David Davalos Gonzalez, PhD.	100	1.00
4.	Ing. Yuriy Halahovets, PhD.	100	1.00

5.	Ing. Ján Hudec, PhD.	34	0.34
6.	Ing. Anna Kálosi, PhD.	90	0.90
7.	Doc. Mgr. Denis Kochan, PhD.	100	0.67
8.	Ing. Pavol Konopka, PhD.	100	1.00
9.	Ing. Mário Kotlár, PhD.	15	0.15
10.	Mgr. Natalia Salomé Móller, PhD.	100	1.00
11.	Mgr. Peter Nádaždy, PhD.	30	0.47
12.	Mgr. Peter Rapčan, PhD.	120	1.23
13.	Ing. Jaroslav Rusnák, PhD.	128	1.28
14.	Mgr. Ján Škoviera, PhD.	100	1.00
15.	Ing. Vladimír Štofanik, PhD.	25	0.25
16.	Mgr. Rupali Tiwari, PhD.	5	0.05
17.	RNDr. Kamil Tokár, PhD.	50	0.50
18.	Dr. Sebastian Vielhauer, PhD.	100	0.96
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Faizan Ahmad	5	0.05
2.	Ing. Monika Bírová	5	0.05
3.	Mgr. Muhammad Faraz Ud Din	5	0.05
4.	Mgr. Vladimír Held	5	0.05
5.	Mgr. Lukáš Holka	5	0.05
6.	RNDr. Dušan Janičkovič	100	1.00
7.	Mgr. Ivan Klbik	5	0.05
8.	Mgr. Denisa Lampášová	5	0.05
9.	Mgr. Ijaz Ahamed Mohammad	5	0.05
10.	MSc. Ricardo Rivera Cardoso	5	0.05
11.	Mgr. Farnoush Salehtash	5	0.05
12.	Mgr. Nana Siddhartha Yenamandala	5	0.05
13.	Mgr. Shima Sousani	5	0.05
14.	Mgr. Nidhin Sudarsanan Ragini	5	0.05
15.	Mgr. Andrej Špaček	5	0.05
16.	Mgr. Iryna Timchenko Prihodko, PhD.	100	0.16
17.	Mgr. Daniel Truchan	5	0.05
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Lenka Kabátová	50	0.50
2.	Ing. Jana Kováčová	100	1.00

3.	Ing. Bc. Mária Lindorová	25	0.23
4.	Ing. Beata Solčianska	100	1.00
5.	Mgr. Angelika Winczerová	100	1.00
Odborní pracovníci ÚSV			
1.	Silvia Bačová	100	1.00
2.	Rebeca Dávid	10	0.10
3.	Michal Halász	100	1.00
4.	Emília Hoffmannová	100	1.00
5.	Jana Koláriková	100	1.00
6.	Marian Markovič	100	1.00
7.	Monika Rácová	100	0.00
8.	Ivan Sabo	60	0.60
9.	Mgr. Katarína Slezáková	100	0.25
10.	Oľga Švančarová	70	0.70
11.	Zita Vaňovičová	100	0.94
12.	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.	Ing. Štefan Lányi, DrSc.	31.12.2022	0.25
Vedúci vedeckí pracovníci CSc., PhD.			
1.	Mgr. Leevi Ilmari Leppäjärvi, PhD.	31.8.2022	1.00
Samostatní vedeckí pracovníci			
1.	Mgr. Cyril Adamuščín, PhD.	10.11.2022	0.00
2.	RNDr. Juraj Boháčik, CSc.	31.12.2022	0.20
3.	Mgr. Ján Brndiar, PhD.	31.8.2022	0.67
4.	Mgr. Chiranjib Mukhopadhyay, PhD.	31.5.2022	0.42
5.	Mgr. Ashutosh Rai, PhD.	31.12.2022	0.00
Vedeckí pracovníci			
1.	Mgr. Katarína Čechová, PhD.	31.12.2022	0.10
2.	Mgr. Hazhir Dolatkhah, PhD.	30.6.2022	0.50
3.	MSc. Yongda Huang, PhD.	31.8.2022	0.44

4.	Dr. Sheikh Sazim, PhD.	31.10.2022	0.30
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Muhammad Ashraf Adeel	31.3.2022	0.01
2.	Ing. Alen Fos	31.8.2022	0.03
3.	Mgr. Ali Israt	31.5.2022	0.02
4.	Mgr. Alica Kvietiková	9.8.2022	0.03
5.	Mgr. Eva Pospíšilová	31.8.2022	0.03
6.	MSc. Tony Thomas	30.11.2022	0.05
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Andrea Gažová	18.4.2022	0.30
2.	Ing. Daniel Gogola, PhD.	31.1.2022	0.03
3.	Bc. Simon Mičky	31.10.2022	1.00
4.	Mgr. Mária Surovcová, PhD.	30.11.2022	0.92
Odborní pracovníci ÚSV			
1.	Marta Bubničová	31.3.2022	0.25
2.	Ingrid Erdélska	30.9.2022	0.75

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Monika Bírová	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
2.	Ing. Alen Fos	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
3.	Mgr. Vladimír Held	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
4.	Mgr. Lukáš Holka	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
5.	Mgr. Gulnur Kantay	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
6.	Mgr. Ivan Klbik	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
7.	Mgr. Denisa Lampášová	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
8.	Mgr. Mumtaz Manzoor	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
9.	Mgr. Ijaz Ahamed Mohammad	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
10.	Mgr. Jaroslav Pavličko	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika
11.	Mgr. Eva Pospíšilová	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika
12.	MSc. Ricardo Rivera Cardoso	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika

13.	Mgr. Farnoush Salehtash	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
14.	Mgr. Soham Sau	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
15.	MSc. Nana Siddhartha Yenamandala	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika
16.	MSc. Nidhin Sudarsanan	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika
17.	Mgr. Andrej Špaček	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
18.	Mgr. Daniel Truchan	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
19.	MSc. Leonardo Viana Dias	Slovenská technická univerzita v Bratislave	2675 elektrotechnika
Interní doktorandi hradení z iných zdrojov			
1.	MSc. Faizan Ahmad	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
2.	Mgr. Muhammad Faraz Ud Din	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
3.	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.	RNDr. Emília Illeková, DrSc.
2.	Ing. Ľudovít Kubičár, DrSc.
3.	Prof., RNDr. Eva Majerníková, DrSc.
4.	RNDr. Peter Mrafko, CSc.
5.	RNDr. Anton Šurda, CSc.

Príloha B
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	1 - Rusko: 1

inštitúcií:	
Čerpané financie:	-

<u>*Dosiahnuté výsledky:*</u>
Spolupráca SR a SÚJV, Dubna je pozastavená.

Programy: COST

4.) Lapené ióny: Rozvoj klasických a kvantových aplikácií *(Trapped ions: Progress in classical and quantum applications)*

Zodpovedný riešiteľ:	Vladimír Bužek
Trvanie projektu:	19.12.2019 / 17.9.2022
Evidenčné číslo projektu:	CA 17113
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Stockholms Universitet
Počet spoluriešiteľských inštitúcií:	11 - Rakúsko: 1, Česko: 1, Nemecko: 1, Dánsko: 1, Fínsko: 1, Francúzsko: 2, Veľká Británia: 1, Holandsko: 1, Nórsko: 1, Poľsko: 1
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 1875 €

<u>*Dosiahnuté výsledky:*</u>
Zúčastnili sme sa pracovných stretnutí.

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:	-

<u>*Dosiahnuté výsledky:*</u>
V uplynulom projektovom období sme vyvinuli dvojitú vrstvu jednostenných uhlíkových nanorúrok (SWCNT). Táto dvojvrstva je založená na dvoch ortogonálne orientovaných samousporiadaných SWCNT pripravených pomocou modifikovanej Langmuirovej-Schaeferovej metódy. Demonštrovali sme použitie takejto vrstvy na potlačenie shuttle efektu síry v Li-S batériách.

Programy: Multilaterálne - iné

6.) Rozvoj učenia založeného na bádaní pomocou IYPT *(Development of Inquiry Based Learning via IYPT)*

Zodpovedný riešiteľ:	Martin Plesch
Trvanie projektu:	1.11.2019 / 30.6.2022

Evidenčné číslo projektu:	2019-1-SK01-KA201-060798
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	7 - Rakúsko: 2, Bulharsko: 1, Česko: 1, Maďarsko: 1, Slovensko: 1, Slovinsko: 1
Čerpané financie:	- MVTS SAV: 1250 €

Dosiahnuté výsledky:
Projekt v priebehu roka 2022 skončil, boli publikované kľúčové výstupy a uskutočnili sa multiplikačné podujatia.

7.) Kvantovo informačná štruktúra priestoročasu *(Quantum Information Structure of Spacetime)*

Zodpovedný riešiteľ:	Mário Ziman
Trvanie projektu:	1.12.2019 / 31.8.2022
Evidenčné číslo projektu:	JTF-61466
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Université d' Aix-Marseille, Center for Theoretical Physics
Počet spoluriešiteľských inštitúcií:	11 - Rakúsko: 1, Belgicko: 1, Kanada: 2, Veľká Británia: 1, Hongkong: 1, Taliansko: 1, Mexiko: 1, Poľsko: 1, USA: 2
Čerpané financie:	John Templeton Foundations: 35514 € Podpora medzinárodnej spolupráce z národných zdrojov: 1667 €

Dosiahnuté výsledky:
Vo Phys. Rev. A 106, 052416 (2022) skúmame robustnosť pravdepodobnostného kvantového učenia optimalizovaného pre fázové hradlá šumu. Je zaujímavé, že pri depolarizácii sa stupeň šumu znižuje. In Phys. E 105, 024124 (2022) zovšeobecňujeme algoritmus tenzorovej siete na štúdium vlastností sebepodobných spinových mriežok skonštruovaných na štvorcovej mriežke s dvoma typmi väzieb. Na tento účel sme upravili algoritmus tensor renormalization group (HOTRG) vyššieho rádu, ktorý je použiteľný pre širokú škálu fraktálových modelov a je vhodný aj pre modely bez translačnej invariantnosti.

Programy: Bilaterálne - iné

8.) 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:	-

<u>*Dosiahnuté výsledky:*</u>
Skúmali sme možnosti samousporiadania perovskitových kvantových bodiek (PQD) na tekutej subfáze. Ako najsľubnejšiu subfázu na samousporiadanie sme identifikovali acetonitril a vykonali sme prvé merania s PQD získanými od nášho partnera v Yonezawe v Japonsku. Okrem toho sme dokončili zostavu na meranie kvantovej účinnosti, ktorá umožní presné merania kvantového výťažku pre planárne štruktúry v tvrdej röntgenovej oblasti.

9.) 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:	-

<u>*Dosiahnuté výsledky:*</u>
Pripravili sme dvojité perovskity Cs2AgBiBr6 nahradením dvoch Pb2+ za Ag+ a Bi3+ v kryštálovej mriežke. Skúmali sme fotovoltaické vlastnosti tenkých vrstiev Cs2AgBiBr6 pripravených pomocou roztokových procesov. Vynikajúce optoelektronické vlastnosti sú spôsobené presným stechiometrickým zložením filmov Cs2AgBiBr6 pripravených roztokovým procesom. Tieto výhody umožnili príslušným perovskitovým solárnym článkom dosiahnuť účinnosť 1,7 % (PCE).

Programy: ERANET

10.) 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: 25000 €

<u>*Dosiahnuté výsledky:*</u>

11.) 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 / 30.9.2023
Evidenčné číslo projektu:	nepridelené
Organizácia je koordinátorom projektu:	nie
Koordinátor:	IMDEA Nanociencia, Madrid
Počet spoluriešiteľských inštitúcií:	2 - Španielsko: 2
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 25000 €

Dosiahnuté výsledky:
V spolupráci s partnerom IMDEA Nanociencia sme vybrali tri systémy materiálov na báze Fe-Ni s perspektívou vytvorenia častíc s usporiadanou tetragonálnou štruktúrou L10-FeNi pri transformácii z amorného stavu. Menovite sme sa zamerali na (FeNi)-Si8B4P4Cu0.7 s rôznymi obsahmi Cu a pomerom B/P, (FeNi)-P13C7 a (FeNi)-Nb7B8. Zo série ôsmich zložení sa ukázalo najperspektívnejšie zloženie (FeNi)-P-C. Tento system sme podrobili sérii teplotne-časových režimov žíhania vrátane žíhania v statickom magnetickom poli na simuláciu zrýchleného procesu vzniku fázy L10 podobnému kozmickým podmienkam. Analogicky sme preskúmali aj system Fe-B s nízkym obsahom B pri ultrapomalom ohreve a dlhodobom nízkoteplotnom žíhaní. Súčasne sme metodicky rozvíjali metódu identifikáciu fázy L10-FeNi pomocou adaptovanej precesnej elektrónovej difrakcie. Analogické procesy sme aplikovali na system Al-Mn vytvárajúci magneticky tvrdú fázu tau-AlMn s podobnou štruktúrou (dve prezentácie na konferencii MCM 2022, Brno).

Programy: Horizont 2020

12.) Quapital.sk *(Quapital.sk)*

Zodpovedný riešiteľ:	Vladimír Bužek
Trvanie projektu:	1.1.2022 / 31.12.2022
Evidenčné číslo projektu:	857156
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Austrian Institute of Technology Gmbh
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	European Commission: 57777 € Podpora medzinárodnej spolupráce z národných zdrojov: 2500 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Ivan Štich
Trvanie projektu:	1.6.2021 /
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>
Ukázali sme, že jediný kyslíkový adatóm na povrchu rutilu TiO2(110)–(1 × 1) je tristabilný a vytvára Oad2–, Oad– a Oad0. Stavy nabitia možno ovládať s jednoelektrónovou presnosťou pomocou atómovej silovej mikroskopia a silovef spektroskopia Kelvinovej sondy. Experimentálne výsledky ukazujú, že Oad0 je skutočne najnižší redoxný stav kyslíkového adatómu a že Oad+ nie je dosiahnuteľný. Naše zistenia rozširujú naše chápanie chemickej povahy kyslíkového adatómu na povrchoch oxidov kovov.

Programy: JRP

14.) Stavy tenzorových sietí Algoritmy a aplikácie *(Tensor-Network States Algorithms and Applications)*

Zodpovedný riešiteľ:	Andrej Gendiar
Trvanie projektu:	1.1.2021 / 31.12.2022
Evidenčné číslo projektu:	108-2112-M-002-020-MY3
Organizácia je koordinátorom projektu:	nie
Koordinátor:	National Taiwan University
Počet spoluriešiteľských inštitúcií:	1 - Taiwan: 1
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 25000 €

<u>*Dosiahnuté výsledky:*</u>
Na štúdium fraktálnych systémov sme použili techniku tenzorových sietí (TS), ktorú je možné zovšeobencniť a použiť pre rôzne triedy modelov aj fraktálov. Tiež sme techniku TS aplikovali na magnetický systém v prítomnosti imaginárneho magnetického poľa, čo malo za následok vznik singularít v partičnej funkcii a spontánnej magnetizácii. Uvažovali sme o komplexnej anizotrópnej deformácii v 6-stavovom systéme, v ktorom sa sme pozorovali trikritický bod, kde sa spájali dva fázové prechody typu Kosterlitz-Thouless and jeden nespojitý fázovný prechod.

Domáce projekty

Programy: VEGA

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

Zodpovedný riešiteľ:	Erik Bartoš
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0105/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.

Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 6781 €

Dosiahnuté výsledky:

Nosnou témou publikácií boli výsledky dosiahnuté pomocou nami rozpracovaných teoretických modelov, ktoré slúžia na detailný popis základných charakteristík skúmaných elementárnych častíc.

Bol použitý takzvaný kovariantný kvarkový model na popis vybraných rozpadových procesov B mezónov. Pozorovali sme, že vypočítané výsledky ohľadom rozpadových šírok systematicky číselne presahujú výsledky získané experimentálnymi meraniami. Tieto zistenia sú v súlade aj s inými teoretickými skupinami a môžu poukazovať na „novú“ fyziku.

Ďalej sme sa zaoberali Unitárnym a analytickým modelom (UAM) elektromagnetickej štruktúry silnointeragujúcich častíc. Model bol už v minulosti úspešne použitý pri popise štruktúry protónov a neutrónov, tentokrát boli porovnávané jeho predpovede s prístupom založeným na koncepte efektívneho nukleónového formfaktora. Taktiež, modifikovaním UAM môžeme popísať elektromagnetické formfaktory dominantných dvojčasticových kanálov pri anihiláciách elektrónov s pozitrónmi. Získané krivky (popisy) môžu byť kontinuálne zintegrované a tak môžeme numericky zistiť vklad kanálov do súhrného hadrónového príspevku v miónovej g-2 anomálii.

2.) Výskum optických a morfologických vlastností nerovných a poréznych povrchov p-typu kryštalického kremíka s cieľom jednoznačne dokázať za akých podmienok pozorujeme jav kvantového uväznenia v kremíkových nanokryštáloch

Zodpovedný riešiteľ:	Róbert Brunner
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0071/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 3565 €

Dosiahnuté výsledky:

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: 11547 €

Dosiahnuté výsledky:

Dvojrozmerné q-stavové clock modely vykazujú fázový prechod typu Berezinskii-Kosterlitz-Thouless pre q>4 pretože sú podmnožinou izotrópneho XY modelu.

Vyšetrujeme 6-stavový clock model s anizotrópnou deformáciou. Ak si zvolíme 6-stavový Pottsov model ako zdroh deformácie, tento nový model prirodzene narúšu dikrétnu rotačnú symetriu clock modelu. Anizotrópnu deformáciu ozačujeme parametrom alfa. Identifikovali sme tri odlišné fázy, zostrojili fázový diagram a našli trikritický bod pre alfa=0.214 a pri teplote T=0.834. Tento trikritický bod vykazuje fázový prechod druhého rádu s exponentami beta = 1/10 and delta = 14.

M. Polackova and A. Gendiar, https://arxiv.org/pdf/2207.09132.pdf

4.) Jadrová štruktúra v okolí uzavretých protónových vrstiev

Zodpovedný riešiteľ:	Andrej Herzáň
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: 20884 €

Dosiahnuté výsledky:
Úspešne sme realizovali 14 dňový experiment zameraný na štúdium štruktúry veľmi neutrónovo deficitných jadier izotopu Au-179, pričom hlavným cieľom bolo štúdium jadrovej izomérie. V experimente bol namiesto štandardného systému pre detekciu jadier zloženého z DSSD a MWPC detektora využitý nový systém pozostávajúci z dvoch prieletových MWPC detektorov, pričom tieto detektory boli navrhnuté a skonštruované na Slovensku (KJFB FMFI UK) a sú výsledkom spolupráce FÚ SAV, v. v. i., FMFI UK v Bratislave a JYFL Fínsko. Tento nový detekčný systém umožnil v experimente použitie vyššej intenzity zväzku iónov, čo vo výsledku znamenal násobné navýšenie štatistiky v porovnaní z predchádzajúcimi meraniami pre jadrá Au-179. Zodpovedný riešiteľ grantu, Andrej Herzáň, bol zároveň jedným z dvojice spokesperson-ov daného experimentu. Experiment sa uskutočnil v Urýchľovačovom laboratóriu Univerzity v Jyväskylä (JYFL) vo Fínsku v rámci kolaborácie FÚ SAV, v. v. i., JYFL Fínsko, University of Liverpool (UK) a Georgia Institute of Technology (USA). Namerané dáta a ich analýza nám poskytnú hlbší pohľad na dôležité štrukturálne efekty v oblasti uzavretej protónovej Z = 82 vrstvy, napr. tvarovú koexistenciu a triaxialitu v atómových jadrách. V izotope Au-179 bola identifikovaná kaskáda izomérnych hladín. Na domácom pracovisku v Tandetrónovom laboratóriu v Piešťanoch bol navrhnutý a skonštruovaný nový goniometer, ktorý bude v ďalšom kroku slúžiť na meranie lineárnej polarizácie a uhlových rozdelení emitovaných elektromagnetických prechodov. Namerané dáta poskytnú informáciu o zmiešavacom pomere zriedkavých prechodov, dôležitých pre štúdium jadrovej štrukúry v jadrách v okolí uzavretých protónových Z = 20, 28 a 50 vrstvách.

Počet publikácií v rámci riešenia grantu v r. 2022: 7

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: 7703 €

Dosiahnuté výsledky:
V súlade s harmonogramom projektu sme za prvý rok riešenia projektu skúmali funkcionalizáciu Ti3C2 MXénov a MoOx nanočastíc s monoterpenoidovými zlúčeninami, akými sú thymol a carvacrol. Skúmali sme rôzne techniky funkcionalizácie cez hydroxilové skupiny, ktoré sme vyhodnocovali pomocou infračervenej FTIR spektroskopie. Vyhodnocovali sme prítomnosť fenolových skupín na povrchu MXénov a rovnako naviazanie terpénov cez hydroxilovú skupinu na MoOx nanočastice. Vykonali sme predbežné antimikrobiálne skúšky na baktérie za účelom stanovenia minimálnej koncentrácie na inhibíciu rastu mikroorganizmov. Prvé testy na antimikrobiálny účinok sme vykonali na povrchu chromatografického papiera použitím metódy pečiatkovania na agar. Zatiaľ sme nezaznamenali významný antimikrobiálny efekt MXénov a MoOx v kombinácii s terpénmi voči vybraným druhom baktérií. Pravdepodobne je to spôsobené tým, že sme zvolili na testovanie chromatografický papier, ktorý má veľkú pórovitosť. MXény a MoOx nanočastice tak môžu ľahko a rýchlo preniknúť do štruktúry materiálu zatiaľ čo môžeme sledovať rast mikroorganizmov na povrchu materiálu.

6.) Vrstvy trioxidu volfrámu pre chemirezistívne senzory stopových koncentrácií acetónu vo vzduchu *(Tungsten-trioxide layers for chemiresistive sensing of trace concentration of acetone vapours in air)*

Zodpovedný riešiteľ:	Ján Ivančo
Trvanie projektu:	1.1.2020 / 31.12.2022
Evidenčné číslo projektu:	2/0156/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 6238 €

Dosiahnuté výsledky:
Projekt riešil štruktúrne vlastnosti nanočastíc polymorfného trioxidu volfrámu (WO3), ktorý je aplikovateľný aj v chemoodporových senzoroch stopových koncentrácii vybraných plynov. Zvlášť jeho nízkoteplotná fáza epsilon (<-40°C) je sľubným aktívnym materiálom senzora. Fáza epsilon vo forme mikro-kryštálov resp. pri dopovaní je stabilná aj pri vyšších teplotách. Študovali sme mikrokryštály WO3 dopované chrómom v závislosti od tepelného spracovania pomocou Ramanovej spektroskopie a rtg difraktometrie. Pozorovali sme vysoký obsah fázy epsilon až do teplôt cca 250°C. Pokles obsahu fázy epsilon nad touto teplotou koreloval s poklesom plochy povrchu WO3(Cr) detegovanej pomocou adsorpcie (stanovenej metódou BET).
Finalizovali sme experiment zameraný na stanovenie mechanizmu detekcie senzora stopových koncentrácii acetónových pár, ktoré sú markerom diabetes; Pomocou rtg absorpčnej spektroskopie (XAFS, x-ray absorption fine structure) sme sledovali chemické zloženie nanočastíc na báze FeOx v závislosti na teplote a pri expozícii acetónovými parami (v zmesi so vzduchom), teda za podmienok odpovedajúcim reálnym pracovným podmienkam senzora. Ukázali sme, že molekuly acetónu adsorbujú chemicky, a nie fyzikálne, ako sa všeobecne predpokladá. Výsledok bude publikovaný v J. Phys. D: Appl. Phys.

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: 1966 €

Dosiahnuté výsledky:
Študovali sme efekt usmernenia (ratchet) difúzneho pohybu častice v 2D kanáli s premennou šírkou h(x). Na časticu tiež pôsobí náhodná sila v priečnom smere. Mapovanie 2+1 rozmernej dynamiky takéhoto systému na pozdĺžnu súradnicu x nám umožnilo nájsť zovšeobecnenú 1D Fick-Jacobsovu rovnicu s difúznym koeficientom D(x) a rozšíreným efektívnym potenciálom, ktorý na rozdiel od známeho entropického potenciálu obsahuje v periodickom kanáli aj novú rastúcu/klesajúcu zložku, závislú od asymetrie h(x). Tá určuje efektívnu silu, ktorá tlačí častice jedným smerom. Ukázali sme, že v niektorých oblastiach parametrov modelu môže priečna náhodná sila generovať omnoho väčší usmernený prúd ako v štandardne skúmaných modeloch s pozdĺžnou silou. Práca je publikovaná 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: 3440 €

Dosiahnuté výsledky:
Tenké a hrubé kyslíkové terčíky boli pripravené pomocou in-air verzie metódy vysokoenergetického vibračného práškového nanášania (HIVIPP). Ako vstupný material bol použitý čistý WO3 prášok (veľkosť zrna cca 45 mikrónov) bohatý na kyslík. Terčíky sú určené na použitie na aplikácie elastického spätného rozptylu (EBS) rezonancií 16O(p,p) a 16O(a,a) pri 3038 keV a 3473 keV pre kalibráciu energie zväzku malých urýchľovačov. Technika röntgenovej fluorescencie (XRF) bola použitá na charakterizáciu terčíkov uložených na rôznych podkladoch (Al a Cu fólie, sklovité uhlíkové planžety, vysoko leštené uhlíkové disky, diamantu-podobné uhlíkové fólie (DLC)). Ukázalo sa, že distribúcia volfrámu (W) v nanesených vrstvách je homogénna a rovnomerná. Zo zachovania stochiometrie metódy HIVIPP sa odvodzuje homogenita a rovnomernosť distribúcie O. Študovali sa rôzne parametre metódy a odvodila sa optimálna stratégia depozície. Ukazuje sa, že metóda HIVIPP je mimoriadne vhodná pre pripravu tenkých vrstiev z materiálov obtiažne deponovateľných klasickými metódami.

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: 11271 €

Dosiahnuté výsledky:
Pripravili sme optimalizovanú elektrónovú transportnú vrstvu pre perovskitové solárne články typu n-i-p na báze zmesi SnO2 nanočastíc a Ti-C MXénov. Ukázali sme, že takáto vrstva prispieva k zvýšeniu účinnosti perovskitového solárneho článku a ukázali sme faktory, ktoré k zvýšeniu prispeli. Preskúmali sme vplyv vlhkosti na rast zŕn polykryštalickej perovskitovej vrstvy. Preštudovali sme vplyv MXénov zabudovaných do vrstvy perovskitového článku v p-i-n geometrii s NiOx vrstvou naprašovaním pomocou iónového zväzku.
V rámci projektu vzniklo 5 publikácií a 2 konferenčné príspevky.

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 koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 3929 €

Dosiahnuté výsledky:
Bol pripravený materiál karbonizáciou sacharózy prostredníctvom špeciálnej techniky, vytvorením tzv. extrakčnej repliky štruktúry silikagélu. Charakterizácia mikroštruktúry a sorpčných vlastností materiálu ukázala prítomnosť mezopórnej štruktúry.
Výsledky boli publikované v príspevku na konferencii "1st Central and Eastern European Conference on Physical Chemistry & Materials Science".
V rámci medzinárodnej spolupráce boli mikroporózne materiály pripravené karbonizáciou celulózy úspešne vyžité na prípravu nového druhu biosenzora (detekcia lakázy). Výsledok publikovaný v CC publikácii.

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	áno

koordinátorom projektu:	
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	VEGA SAV: 4616 €

Dosiahnuté výsledky:
Ukázali sme, že jednotlivé zložky komplexnej impedancie meranej metódou ER-EIS (Energy Resolved electrochemical Impedance Spectroscopy) poskytujú užitočné informácie o lokalizácii defektov v organických polovodičoch a o stratách prenosu náboja na defektných stavoch. Skúmali sme efektívny zakázaný pás, Eg,Eff a energiu excitónu prenášajúceho náboj (ECTE) v dvoch zmesových materiáloch (P3HT:PC61BM a PCDTBT:Y6). Priaznivý pomer (Eg,Eff < ECTE), ktorý je predpokladom efektívneho získavania elektriny zo slnečnej energie, sa pre zmes PCDTBT:Y6 nepotvrdil. Na pracovisku PF UK boli syntetizované dve série ditienylnaftalénov a kvartertiofénov substituovaných rôznymi skupinami priťahujúcimi elektróny. Prispeli sme k porovnaniu teoretických a experimentálnych molekulárnych vlastností súvisiacich s účinkom skupín priťahujúcich elektróny. Koncepcia vynechania jednej z tiofénových jednotiek na oboch stranách naftalénu z pôvodných derivátov sa ukázala ako výhodná, čo vedie k primeranej rozpustnosti derivátov so zvýšeným polovodičovým výkonom. V rámci výpočtovej časti projektu sme sa zamerali na vplyv možných prímesí na elektrónovú štruktúru pre vybranú molekulu zo skúmanej série.

Výsledky boli publikované v 2 CC časopise a 2 zborníkoch z konferencie.

12.) Benchmark Kvantových počítačov prístupných cez Klaud *(Benchmarking Quantum computers on Cloud)*

Zodpovedný riešiteľ:	Martin Plesch
Trvanie projektu:	1.1.2019 / 31.12.2022
Evidenčné číslo projektu:	2/0136/19
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 6093 €

Dosiahnuté výsledky:
V rámci projektu bolo publikovaných 5 publikácií a ďalšie je v príprave. Projekt tento rok skončil.

13.) 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: 4914 €

Dosiahnuté výsledky:
Pre coulombovské systémy častíc pohybujúcimi sa medzi symetricky nabitými platňami, ktoré sú v termodynamickej rovnováhe pri určitej teplote, sme skonštruovali univerzálnu metódu efektívneho poľa. Táto metóda vedie k reálnym hodnotám efektívnej interakcie medzi platňami a popisuje adekvátne nízkoteplotné anomálne priťahovanie rovnako nabitých nábojov. Súčasne sme aplikovali štatistické metódy používané pre coulombovské systémy na matematické problémy typu hľadania off-kritických núl pre Epsteinove zeta funkcie, ktoré sú mnohorozmerným zovšeobecnením Riemannovej zeta funkcie. Získané výsledky boli publikované v 5 CC publikáciach.

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

Zodpovedný riešiteľ:	Ondrej Šauša
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0134/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 2488 €

Dosiahnuté výsledky:
V prvom polroku 2022 bola urobená štúdia týkajúca sa kryoprotektívneho mechanizmu vplyvu DMSO na NaCl eutektickú kryštalizáciu. Termoanalytická (DSC) a mikroštrukturálna analýza (PALS) vplyvu DMSO na eutektickú fázovú transformáciu v kryoprotektívnych zmesiach objavila koreláciu medzi stratou viability buniek a eutektickou NaCl kryštalizáciou. DMSO potláča eutektickú kryštalizáciu NaCl a uchováva viabilitu buniek. Tento mechanizmus bol objasnený pomocou termodynamického popisu.
Bolo uskutočnených viacero meraní pomocou DSC techniky na zmesiach voda-NaCl-DMSO v koncentračnom rozsahu 0-10 obj.% pre DMSO. Do rozsahu 1.8 obj.% boli pozorované prejavy eutektickej formácie, nad 2.2 obj. % už nie. Tieto pozorovania boli podporené nezávislými meraniami Ramanovskej spektroskopie, PALS a meraním elektrickej vodivosti. Bola nájdená závislosť poklesu eutektickej teploty topenia od množstva DMSO v zmesi a popísaná jednoduchým modelom.
V druhej polovici roka boli robené práce na problematike nepenetrujúcich "non-permeant" kryoprotektív, kde sa hladali alternatívy k štandardnému prístupu zmrazovania buniek , ktoré využíva prienik kryoprotektív do intracelulárneho priestoru, čo môže mať viaceré negatívne dopady na bunky a môže znižovať viabilitu buniek. Navrhol sa protokol zmrazovania, vhodné makromolekulárne kryoprotektívum ako aj vysvetlujúci mechanizmus procesov prebiehajúcich pri zmrazovaní a ohreve.
V rámci projektu sa urobili aj ďalšie štúdie súvisiace s využitím našej metodiky pre oblasť biosenzorov.

Výstupy: 6 publikacii, 2 príspevky na konferenciách (Dublin, Helsinki).

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

Zodpovedný riešiteľ:	Ivan Štich
Trvanie projektu:	1.1.2021 / 31.12.2025
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 12530 €

Dosiahnuté výsledky:
Zatiaľ čo molekulárne spínače ladené na povrchu boli nedávno široko študované, atómovým spínačom sa dostalo oveľa menej pozornosti napriek skutočnosti, že by mohli okrem veľkosti skrátiť aj spínacie časy rádovo tým, že by priamo ladili svoje elektronické než atómové stavy. Študovali sme ultrarýchly prepínač vodivosti naladený na špičku, ktorý sa môže prepínať reverzibilne a opakovane pomocou aplikovaného predpätia. Prepínanie je realizované kyslíkovým adatómom podporovaným na rutilovom povrchu TiO2, ktorého redoxný stav možno prepínať medzi -1, -2 a 0, pričom prvý je vodivý a posledné dva nevodivé. Pokročilé simulácie naznačujú, že pre prakticky identické stopy skreslenia prúdu je zapojených niekoľko mechanizmov, ako je vybíjanie/dobíjanie prostredníctvom stavu blízkeho polarónu alebo prostredníctvom vysoko energeticky nepriaznivého neutrálneho redoxného stavu.

16.) 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: 2373 €

Dosiahnuté výsledky:
Pripravili sme sériu bezolovnatých spájok typu SAC305 s prímesami kovových nanočastíc Ni, Ni-Sn v tavidle. Následne sme pripravili spojove páry Cu-spájka-Cu, ktorí boli dlhodobo žíhané pri zvýšených teplotách cca 423 K. Na overenie vplyvu spevnenia spoja kovovými nanočasticami sme spravili testy mechanickej pevnosti spoja metódou push-off a mikroštruktúrnu analýzy rezov spoja pomocou SEM/EDS. Sledovali sme vývoj hrúbky vrstvy intermetalického rozhrania medzi Cu podložkou a spájkou v závislosti od pracovných parametrov spoja, ukázali sme, že malá miera legovania spájky časticami Ni3Sn a Ni3Sn2 ovplyvní termodynamiku difúzie prvkov v oblasti spoja a vedie k zníženiu rýchlosti rastu vrstvy Cu6Sn5 a Cu3Sn pri zvýšených teplotách (publikácia v Applied Nanoscience).

17.) 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: 19858 €

Dosiahnuté výsledky:
Pripravili a preskúmali sme kinetiku a morfológiu vznikajúcich fáz v základnom systéme Fe-B v širokom rozsahu obsahov B (12 - 20 at.%) pri lineárnom ohreve ako predbežnú štúdiu pre vytvorenie nanokryštalických fáz v pseudobinárnom systéme na báze Fe pomocou netradičných rýchlych metód tepelného spracovania - rýchle ohrevy, ultrakrátke žíhania (publikácia v J. Magn. Magn. Mater.). Podobne sme preskúmali systém na báze Fe-Sn-B so substitúciou Fe/Co a malým prídavkom Cu (publikácia v J. Non-Cryst. Solids). Našli sme kompozičné a procesné oblasti, kde dochádza k minimalizácii rozmerov zŕn primárnej bcc fázy nevyhnutnej pre dosiahnutie nízkej koercivity.
V sérii prác sme preskúmali rýchlochladený systém Co-Fe-Si-Nb-B s prímesami prvkov vzácnych zemín s ohľadom na korelácie medzi nízko a vysokoteplotnými závislosťami elektrickej vodivosti, susceptibility a hustoty vzoriek v amorfnom, kryštalickom a kvapalnom (roztavenom) stave. Zo súboru výsledkov sme poukázali na anomálie v elektrónovej štruktúre naznačujúce existenciu usporiadanejších oblastí v amorfnom stave korelujúce s predpokladanou existenciou podobného usporiadania v roztavenej zliatine až po špecifické teploty vysoko nad teplotou likvidu (dve publikácie Technical Physics, jedna publikácia Russian Metallurgy).
V spolupráci sme sa zúčastnili modelovania nanokryštalického materiálu typu FINEMET ako magnetika v reálnom indukčnom obvode typu gyrátor-kondenzátor upravenou metódou SPICE (publikácia J. Magn. Magn. Mater.). Podobne sme spolupracovali na vytvorení metodického protokolu pre metódu LIBS na stanovenie koncentračných profilov, homogenity a kvantifikácie chemického zloženia rýchlochladených amorfných dvojvrstiev na báze Fe/Co (publikácia v Spectroscopica Acta Part B).

18.) 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: 850 €

Dosiahnuté výsledky:
Počas druhého roka riešenia sme sa v projektovej činnosti zameriavali na chemické postupy syntézy a štúdium elektronických vlastností nového typu azometínu s kombinovanými účinkami tiofénových jadier v molekule (FPV UCM, Trnava). Novo syntetizovaný homológ z tromi tiofénovými jadrami je štruktúrne podobný s tertiofénom, ktorý je súčasťou aktívnych vrstiev v organických polovodičoch. Pre ďalší prípad navrhnutých a nasyntetizovaných látok na báze malých organických molekúl obsahujúcich tiazolo[5,4-d]tiazoly zakončenými spirobifluorénovým

framentom (SBF) sa podarilo exprimentálne ukázať, na základe ich elektroluminiscenčných vlastností, že po ich začlenení do časti emisnej vrstvy OLED (organickej diódy emitujúcej svetlo) majú schopnosť emitovať svetlo s vlnovými dĺžkami v žltej až žltozelenej oblasti.
V teoretickej časti bol simulovaný a modelovo interpretovaný systém energetických stavov molekúl, hraničných orbitálov, band gapov a UV-vis absorbčných prechodov pomocou kvantových výmenno-korelačných DFT funkcionálov a časovo závislej TD-DFT metódy. Vlastnosti sú dôležité z hľadiska organizácie vrstiev a rozhraní vrámci optolektrických setupov na organickej báze. DFT metódou sa namodelovali charakteristiky meraného vibračného transmisného IR spektra syntetizovaných vzoriek na charakterizáciu typov chemických väzieb novej štruktúry. Časť experimentálnych a nasimulovaných výsledkov bola zatiaľ odprezentovaná v 1 publikácii a konferenčnom príspevku.

19.) 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: 2335 €

Dosiahnuté výsledky:
Pomocou prechodových metódboli vyšetrené vlastnosti objemových drevín a drevených kompozitov vo forme OSBD dosiek. Kompozitné materiály boli vyrobené zo 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 popisujúci vplyv tepelnej kapacity zdroja tepla a koeficientu prestupu tepla medzi zdrojom tepla a vzorkou bol overený na laboratórnom štandarde získanom z laboratória PTB v Nemecku. Výsledky získané na PMMA sa zhodujú s výsledkami metrologických laboratórií PTB a NPL v Anglicku. Vplyv uvedených efektov bol publikovaný v 2 článkoch (2022 ELVYS).
Dva ďalšie články “Thermal Properties of Oak High Density Board Measured By the Pulse Transient Method for Different Heat Pulse Energy”, a “Thermal Properties of Low-Density Alder Wood (Alnus cordata Loisel) under Room Ambience”, prijaté do zborníka THERMOPHYSICS 2022 konferencie budú publikované v AIP a uvedené vo WOS-e.
Článok “Analysis of Thermo-Physical parameters of deodar cedar (Cedrus deoadara, Roxb) by Pulse Transient Technique” bol odoslaný na publikovanie do WMSE časopisu.

V oblasti merania drevených kompozitov boli vyšetrené vlastnosti OSBD zo zmesi štiepky dubového a pomarančového dreva. Prírodné drevo cédra a topoľa bolo meané v stave pred apo tepelnom opracovaní. Pripravené sú ešte 2 publikácie tesne pred dokončením.

20.) 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: 4121 €

Dosiahnuté výsledky:
V prvom kroku sme analyzovali metódou dotykovej profilometrie povrch Ge doštičky opracovaný z jednej strany na konkávny a z opačnej na konvexný tvar. Porovnanie rozdielu nameraných polomerov s nominálnou hrúbkou doštičky bude kritériom pre ďalšie spresňovanie parametrov nanoobrábania. Metódou SPDT sme pripravili Al formu s konkávnym polomerom R, do ktorej sme ohli a vlepili Ge doštičku opracovanú na konkávny polomer 2R. Analýza presnosti tvaru a drsnosti povrchu doštičky ukázala potenciál SPDT ako novej technológie prípravy vysoko kvalitných fokusujúcich RTG monochromátorov.
Výstupy - 5 publikácii v časopisoch WOS

21.) 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: 35635 €

Dosiahnuté výsledky:
Publikovali sme 5 výskumných prác. Ukázali sme nutné a postačujúce kritériá pre narušenie nerovností Mermin a Svetlichny trojqubitovými stavmi. Zistili sme, že pre určité parametre je možné porušiť Merminove a Svetlichného nerovnosti iba biasnutými pozorovateľnými. Ďalej sme navrhli triedu kvantových máp, ktoré zachovávajú alebo úplne vymazávajú komponenty multiqubitového systému na základe Pauliho reťazcov, ktoré nazývame mapy na mazanie Pauliho komponentov. Ukázali sme, že táto trieda kanálov tvorí pologrupu a odvodili jej generátory. Formulovali sme tiež prirodzené zovšeobecnenie kódov náhodného prístupu (RACs) a nazývame ich testy náhodného prístupu (RAT), definované pre akúkoľvek konečnú množinu meraní v ľubovoľnej konečnej dimenzii všeobecných pravdepodobnostných modeloch. Ukazujeme, že porušenie klasickej väzby v RAT je znakom buď nekompatibility merania, alebo super skladovateľnosti informácií. Teórie polygónov sú podrobne analyzované a je odhalený kritický rozdiel medzi teóriami párnych a nepárnych polygónov.

Programy: APVV

22.) 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: 8688 €

Dosiahnuté výsledky:
V rámci tohto projektu sme v roku 2022 zamerali na optimalizáciu konjugačných krokov MoOx nanočastíc s monoklonálnou protilátkou M75 za účelom vytvorenia funkčnej nanoplatformy s fototermálnymi vlastnosťami s vysokou selektivitou voči rakovinovým bunkám. Úspešnosť konjugácie sme potvrdili pomocou XPS a NIR optickej spektroskopie (aquafotomika). Nádorovo-selektívne viazanie konjugátov bolo kvantitatívne vyhodnotené meraniami prietokovou cytometriou a ďalej potvrdené konfokálnou mikroskopiou využitím fluorescenčných značiek (konvenčný CLSM a superrozlišovací STED), a konfokálnou Ramanovou mikroskopiou živých buniek bez značiek. Okrem modelových C33 CAIX-pozitívnych a C33 CAIX-negatívnych bunkách, testovali sme internalizáciu nanokonjugátov na hypoxicky predinkubované monovrstvy tvorené z buniek A549, BxPC3, Colo357, FaDu, HCT116, JIMT-1. Zistili sme, že malé linkery aminofosfónovej kyseliny APPA (kyselina 3-aminopropylfosfonická) a ABPA (kyselina 4-aminobutylfosfonická) sú účinnejšie v porovnaní s kombináciou polyetylénglykolového reťazca a mostíka biotín-avidín-biotín pri konštrukcii vysoko selektívnej a PTT aktívnej platformy. Okrem toho, CRM živých buniek bez značiek spolu s fluorescenčne značenými lokalizačnými technikami konzistentne naznačujú, že konjugáty sú prednostne internalizované v oblastiach bohatých na lyzozómy. Vykonali sme preliminárne in vitro fototermálne experimenty na C33 CAIX monovrstvách buniek. Zahájili sme experimenty na 3D bunkových modelov (sferoidy). Pristúpili sme k charaketerizácii konjugátov na báze Ti3C2 MXénov, s laterálnymi veľkostami 100-200 nm, kde v prvom priblíženi sme využili konjugačnú schému na báze APPA.

23.) 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	0

inštitúcií:
Čerpané financie: -

<u>*Dosiahnuté výsledky:*</u>
V spolupráci s Ústavom Polymérov sme nainštalovali a uviedli do prevádzky konfokálny laserový mikroskop najnovšej generácie, ktorý je nevyhnutný na rýchly prieskum priestorovej distribúcie vybraných molekúl v polymérnych beadoch. Merania v režime Rayleighovho rozptylu sú možné aj na neznačených guľôčkach. Okrem toho je nedávno nainštalovaná optická profilometria veľmi cenná pri štúdiu povrchu použitých polymérnych materiálov.

24.) Časovo-rozlíšené štúdium rastu hybridných van der Waalsových heteroštruktúr
(Real-time grow studies of hybrid van der Waals heterostructures)

Zodpovedný riešiteľ:	Naďa Mrkývková
Trvanie projektu:	1.7.2018 / 30.6.2022
Evidenčné číslo projektu:	APVV-17-0352
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 6899 €

<u>*Dosiahnuté výsledky:*</u>
V roku 2022 prebiehala posledná fáza projektu zameraná na spracovávanie a analýza posledných nameraných dát z depozície malých molekúl, sumarizáciu a vyvodzovanie záverov. Vyhodnocovali sme vplyv vonkajších parametrov, ako napr. teplota substrátu a hustota depozičného toku, na kinetiku rastu tenkých vrstiev. Získané experimentálne dáta sme porovnávali s dostupnými výsledkami publikovanými vo vedeckých časopisoch.
Ďalej sme venovali štúdiu luminiscenčných spektier počas rastu malých molekúl paralelne s in-situ RTG difrakciou. Simultánne skúmanie optických (fotoluminiscencia) a štruktúrnych (RTG difrakcia) vlastností prináša množstvo výhod a rozširuje poznatky o vzniku vrstiev a ich transformácii v zmysle základného prepojenia elektronických a štrukturálnych vlastností. Použité RTG techniky, ako GIWAXS a GISAXS poskytujú komplexné informácie o tenkom organickom filme, štruktúre, morfológii a molekulárnej orientácii. Na druhej strane optické techniky, ako je fotoluminiscencia, poskytnú informácie o defektoch, elektronických interakciách, excitačných stavoch, ich životnosti a taktiež a molekulovej orientácii.

25.) 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: 5000 €

<u>*Dosiahnuté výsledky:*</u>

V tomto roku sme sa venovali štúdiu vlastností tenkých organických filmov na 2D substrátoch. Konkrétne sme študovali morfológiu a prítomnosť polymorfov pomocou relatívne novej metódy "scattering-type Scanning Near-field Optical Microscopy" a nano-FTIR. Táto metóda je schopná odhaliť orientáciu molekúl na vrstve, ako aj prítomnosť polymorfov s rozlíšením desiatok nanometrov.
Taktiež sme používali malé molekuly, konkrétne pentacén (PEN) pre pasiváciu defektov v perovskitových štruktúrach.

V roku 2022 bola publikovaná 1 CC publikácia.

26.) Perovskitové vrstvy s vylepšenou pasiváciou a štruktúrou *(Perovskite-based Films with Superior Passivation and Structure)*

Zodpovedný riešiteľ:	Naďa Mrkývková
Trvanie projektu:	1.7.2022 / 30.6.2025
Evidenčné číslo projektu:	SK-CZ-RD-21-0043
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 15006 €

Dosiahnuté výsledky:
V roku 2022 sme sa venovali vývoju multifunkčného prenosného PL/reflexného/transreflexného setupu. Tento sutup bol otestovaný na synchrotróne v Hamburgu (DESY) kde sme pripravovali a študovali perovskitové vrstvy pomocou vákuovej depozície.
Ďalej sme pripravovali, charakterizovali a optimalizovali tenké perovskitové vrstvy vhodné pre solárne články.

V roku 2022 vyšli 2 CC publikácie.

27.) 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: 20251 €

Dosiahnuté výsledky:
V roku 2022 sme sa venovali vývoju úprave vákuovej rastovej komory pre rast perovskitov. Modifikovanú vákuvú komoru sme využili na štúdium rastu perovskitov, konkrétne sme sa zamerali na dynamiku štrukturnych a optoelektronických vlastností. Tieto sme študovali na modelovej perovskitovej štruktúre MAPbI3.
Z nameraných dát zvnikla v roku 2022 jedna publikácia.

28.) 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: 23416 €

Dosiahnuté výsledky:
Projekt začal v polovici roku 2022 (1.7.). Uzavrelo sa kombinované štúdium pomocou dilatometrie, pozitrónovej anihilácie (stanovenie lokálneho voľného objemu) a teórie z projektov, na ktoré súčasný APVV projekt nadväzuje. Výsledky štúdie boli prezentované na konferencii na základe ktorých sa načrtli v spolupráci so zahraničným partnerom nové prístupy v plánovaných experimentoch na ďalší rok.
Začalo štúdium in situ fotopolymerizácie dimetakrylátov v závislosti od množstva fotoiniciatora a hrúbky vzorky ako aj PALS in situ štúdium termálnej polymerizácie dimetakrylátov v kombinácií s DSC, kde sa charakterizovali teplotné a voľnoobjemové vlastnosti bulkových vzoriek modelových materiálov 2M .
Ďalej sa skúmala mikroštruktúra, t.j. veľkosť lokálneho voľného objemu a jeho homogenity v zmesi akrylátových epoxidov na báze sójového oleja (AESO) a vanilin dimetakrylátu (VDM) v prítomnosti fotoiniciátora a bez PI. Študoval sa priebeh fotopolymerizácie in situ na týchto vzorkách a hladali sa súvislosti zloženia monomérnych zmesí a faktorov ovplynňujúcich priebeh reakcie s finálnymi vlastnosťami zosietených polymérov. Práve tieto materiály umožnili zapojenie nášho projektu do rozšírenia ďalšej medzinárodnej spolupráce v oblasti biosenzorov. V súvislosti s biosenzormi sa študovali teda rôzne organické matrice na báze AESO a VDM ako aj uhlíkové matrice alebo Nafion film modifikovaný nanočasticami TiO_2 s potenciálnym využitím ako zadržiavacie matrice lakázy.
Okrajovo bola metodika pozitrónovej anihilácie využitá pri štúdiu mechanizmu potlačenia eutektickej kryštalizácie NaCl pomocou DMSO v kryoprotektívnych zmesiach.

Výstupy: 4 CC publikácie, 5 vývesiek, 1 prednáška

29.) 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:	-

Dosiahnuté výsledky:

V roku 2022 sme v spolupráci s Ústavom anorganickej chémie a Ústavom polymérov skúmali vplyv rôznych pojív na zachovanie kapacity kompozitných anód kremík/grafit. Ukázalo sa, že pojivá na báze alginátu majú lepšie vlastnosti v porovnaní s pojivami, ktoré sa bežne používajú v kremíkových anódach. V spolupráci s Elektrotechnickým ústavom sa uskutočnili prvé testy zapuzdrenia anód na báze kremíka pomocou ALD.

30.) 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:	-

Dosiahnuté výsledky:
Skúmal sa synergický účinok vysokokvalitných NiOx dierových transportných vrstiev (HTL) deponovaných iónovým naprašovaním na ITO substrátoch a Ti3C2Tx MXenového dopovania CH3NH3PbI3 (MAPI) perovskitových vrstiev s cieľom zlepšiť účinnosť konverzie energie (PCE) p-i-n perovskitových solárnych článkov (PSC). Vrstvy NiOx s hrúbkou 18 nm sú bez dierok a vykazujú veľkoplošnú homogénnu morfológiu povrchu, ako sa zistilo pomocou mikroskopie atómových síl (AFM). Difrakcia röntgenového žiarenia ukázala 0,75 % rozšírenie kubickej mriežky s centrovaným povrchom, čo naznačuje nadbytok kyslíka, ktorý je typický pre nestechiometrický NiOx. HTL sa použili na výrobu PSC s vrstvami MAPI dopovanými MXénom. PSC s nedopovanou vrstvou MAPI slúžil ako kontrola. Dopovanie 0,15 % hmotn. MXénu ukázalo 14,3 % zvýšenie PCE v porovnaní s PSC s nedopovaným MAPI. Energeticky rozlíšená elektrochemická impedančná spektroskopia odhalila o jeden rád vyššiu hustotu defektných stavov v zakázanom páse vrstvy MAPI dopovanej MXénom. Zlepšenie PCE sa pripisuje zníženiu pracovnej funkcie z -5,26 eV na -5,32 eV pri dopovaní MXenom, čo zvýšilo napätie otvoreného obvodu a faktor plnenia.

31.) 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:	-

Dosiahnuté výsledky:
Realizovali sme komplexné, časovo rozlíšené, in-situ štúdium rastu tenkej vrstvy MoS2 z MoO3 sulfuráciou pomocou rozptylu röntgenového žiarenia (GIWAXS) v laboratórnych podmienkach. Sledovali sme základné chemické reakcie počas procesu sulfurácie v reálnom čase monitorovaním

fázových transformácií MoO3 na MoO2 a MoO2 na MoS2 prostredníctvom prechodnej fázy MoOS2, napriek tomu, že ju nebolo možné pozorovať priamo. Potvrdila sa preferenčná kryštalografická orientácia fáz MoO3 a MoO2 počas rastu. Okrem toho sa z parametrov kryštalizačnej kinetiky určili ich aktivačné energie.

32.) Pokročilé lítiové batérie s dlhou životnosťou *(Towards lithium based batteries with improved lifetime)*

Zodpovedný riešiteľ:	Peter Šiffalovič
Zodpovedný riešiteľ v organizácii SAV:	Peter Šiffalovič
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0111
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum pre využitie pokročilých materiálov SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:
Lítiovo-sírové (Li-S) batérie vzbudili veľkú pozornosť vďaka svojej vysokej energetickej hustote a nákladovej efektívnosti. Avšak nevýhody, ako je polysulfidový shuttle efekt a nízka elektrická vodivosť aktívneho sírového materiálu, majú za následok slabú cyklickú stabilitu. V našej projekte sme sa snažili prekonať tieto problémy použitím vysoko technologicky prepracovanej dvojvrstvy jednostenných uhlíkových nanotrubičiek (SWCNT). Dve monovrstvy usporiadaných SWCNT boli nanesené na separátor zo sklenených vlákien pomocou modifikovanej Langmuirovej-Schaeferovej metódy. Deponovaná dvojvrstva vytvára sieťový vzor, ktorý funguje ako priestorový filter na zmiernenie polysulfidového shuttle efektu. Na potvrdenie tohto zlepšenia sme zostavili články s modifikovanými separátormi zo sklenených vlákien pokrytými dvojvrstvami SWCNT a porovnali sme ich elektrochemické vlastnosti s neošetrenými článkami s pôvodnými separátormi zo sklenených vlákien. Elektrochemické výsledky odhalili, že vybíjacia kapacita batérie s modifikovaným separátorom sa výrazne zvýšila. Po 50 cykloch (0,5 C) mala batéria s potiahnutým separátorom rovnakú vybíjaciu kapacitu ako batéria s nedotknutým separátorom už po 20 cykloch (600 mA h/g), čo naznačuje významný rozdiel 30 cyklov v zachovaní kapacity. Z toho vyplýva, že ultratenká dvojvrstva SWCNT na bežnom separátore zo sklenených vlákien výrazne potláča polysulfidový shuttle efekt.

33.) AFM: Zobrazovanie, manipulácia, simulácia na atomárnej škále *(AFM: Imaging, manipulation, atomic-scale simulation)*

Zodpovedný riešiteľ:	Ivan Štich
Trvanie projektu:	1.7.2019 / 30.6.2022
Evidenčné číslo projektu:	APVV-18-0211
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	-

Dosiahnuté výsledky:

Bol ukončený projekt venovaný počítačovému modelovaniu systémov, najmä atómov kyslíka deponovaným na povrchu TiO2(110) a ich úlohe atomárnych spínačov.
Výsledky boli publikované v 2 CC publikáciách.

34.) 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:
Analyzovali sme tri zloženia rýchlochladeného systemu (Fe1?xCox)87B13 (x = 0, 0.2, 0.25) s potenciálne vysokou hodnotou magnetizácie v nasýtení po vytvorení nanokryštalickej štruktúry transformáciou z amorfného stavu prostredníctvom techniky ultrarýchleho žíhania. Hlavná pozornosť tejto štúdie bola venovaná charakterizácii magneticky mäkkého správania pri zvýšených teplotách. Všetky zloženia vykazovali pokles koercivity Hc s teplotou až do 523 K, pričom miera poklesu bola najvyššia pre vzorky bez obsahu Co a klesala s jeho zvyšovaním. Pozorované správanie bolo pripísané znižovaniu magnetoelastickej anizotropie v dôsledku poklesu magnetostrikcie s rastúcou teplotou. Vratný nárast závislosti Hc(T) nad 523 K pre vzorku Fe87B13 možno pochopiť menej účinnou medzizrnnou výmennou väzbou sprostredkovanou zvyškovou amorfnou matricou. Na druhej strane nevratná strata magnetickej mäkkosti zliatin (Fe4Co1)87B13 a (Fe3Co1)87B13 pozorované nad 523 K možno pripísať nekoherentnej indukovanej magnetickej anizotropii vytvorenej počas tepelného spracovania vzoriek pod Curieho teplotou v remanentnom stave (publikácia v JALCOM).
Vplyv atmosféry použitej pri tepelnom spracovaní na magneticky mäkké vlastnosti a mikroštruktúru povrchu rýchlochladených materiálov sme preskúmali na systéme vzoriek typu NANOMET - Fe82Si4B10P3Cu1 a Fe78Si8B10P3Cu1. Nanokryštalická štruktúra bola pripravená žíhaním amorfných prekurzorov pri teplote 420 C v argónovej atmosphere a vo vákuu, výsledné magnetické vlastnosti a štruktúra v závislosti od dĺžky žíhania boli analyzované rtg. difrakciou, Mossbauerovou spektroskopiou, magnetickými meraniami a pomocou AFM. Výsledky potvrdili očakávané zhoršenie koercivity s rastúcou dĺžkou žíhania v dôsledku nárastu rozmerov nanokryštalickej fázy a jej množstva. Žíhanie vo vákuu podobne viedlo k vyššej koercivite i napriek nižšej drsnosti povrchu vzoriek stanovenej AFM v porovnaní so vzorkami spracovanými v argóne, čo je v súlade s predpokladanými heterogenitami v pôvodnej amorfnej štruktúre (publikácia v Hyperfine Interactions).
Pomocou detailných experimentálnych a prvoprincípových metód sme preskúmali vhodnosť usporiadaných intermetalických zlúčením na báze Sm2Co7 a SmCo5 ako prekurzorov pre účinné kompozitné katalytické materiály stabilné pri vysokých teplotách. Uvedené prekurzory po rozklade na vzduchu pri 550 C a redukcii v H2 vykazovali vysokú hodnotu plochy povrchu a prítomnosť nanopórov, podobne ako dobrú katalytickú aktivitu s nízkou aktivačnou energiou pre syntézu NH3 a aktiváciu molekúl butánu a CO2 na prípravu syngasu. Výborné vlastnosti a mechanizmy katalýzy boli detailne korelované so štruktúrnymi a elektrónovými interakciami. Stabilita a aktivita kompozitných katalytických intermetalických zlúčenín Co-SmO2 aj pri teplotách okolo 550 C naznačuje ich možné potenciálne využitie v širokej škále katalytických reakcií (publikácia vo Phys.

Rev. B).

35.) 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>
Detailne sme preskúmali fázový diagram Al-Pd-Co v oblastiach koncentrácie Al od 50 do 100 at.% v teplotnom rozsahu medzi 1020 až 1050 °C. Na získanie a doplnenie chýbajúcich dát sme pripravili sériu vzoriek dlhodobo žíhaných (300 hod.) pri 1035 °C. Štruktúru zliatin sme preskúmali experimentálnymi metódami kombinovanými s modelovaním a prvoprincípovými simuláciami. Na výpočet atómových štruktúr bola vykonaná simulácia Monte Carlo minimalizujúca energiu empirických oscilujúcich párov. V skúmaných zliatinách sme pozorovali rôzne modifikácie kvázikryštalického aproximantu epsilon-n. Prvýkrát sme v systéme Al-Pd-Co experimentálne pozorovali štruktúry epsilon22 a epsilon34, vytvorili sme modely ich atómovej štruktúry (publikácia v JALCOM).
Kombináciou metód merania teplotne-časových závislostí fyzikálnych vlastností, kalorimetriou a špičkovými štruktúrno-analytickými metódami (rtg. difrakcia, STEM/EDS/EELS, riadkovacia elektrónová mikroskopia a pod.) sme preskúmali vývoj mikroštruktúry a lokálneho usporiadania v dvoch amorfných zliatinách Al-Ni-Co-Gd s rôznym pomerom Ni/Co s cieľom vysvetliť anomálny nesúlad medzi zmenami fyzikálnych parametrov počas druhého transformačného stupňa a zdanlivou absenciou nových kryštalických fáz podľa rtg. záznamov. (príspevok na konferencii MCM 2022, Brno).
Spolupracovali sme na identifikácii a interpretácii fázových transformacií vo feroelektrikách (Ca 0.2 Sr 0.2 Ba 0.2 Pb 0.2 Nd 0.1 Na 0.1) Bi 4 Ti 4 O 15 (6ABTO) vytvorených reakciou v tuhej faze využitím koncepcie HEC (high-entropy ceramics). Povahu efektu vysokej entropie v 6ABTO sme diskutovali prostredníctvom porovnania výsledkov z izoštrukturálnych kompozícií obsahujúcich 5, 4 a 3 zložky katiónov. Porovnanie 6ABTO so zloženiami 5ABTO, 4ABTO a 3ABTO ukazuje, že zvýšená konfiguračná entropia v 6ABTO nie je hlavným faktorom stabilizácie 4-vrstvovej štruktúry, ale je daná inými vysokoentropickými efektmi ako napr. tzv. koktailový efekt, pričom prítomnosť lokálnych napäťových polí môže mať významný vplyv na výsledné vlastnosti (publikácia v Acta Materialia).
Spravili sme porovnávaciu štúdiu elektrónovej štruktúry dvoch komplexných kovových zliatin na báze Al, menovite beta-Al3Mg2 a Al13Fe4. Z tvaru valenčného pásu v oblasti blízkej EF sme identifikovali plytkú pseudomedzeru v beta-Al3Mg2 pomocou HAXPES, ktorej existenciu podporili aj naše DFT výpočty. Tým sa potvrdilo, že stabilita komplexnej štruktúry beta-Al3Mg2 je daná Hume-Rotheryho mechanizmom. Z takmer parabolického tvaru DOS, veľkého n(EF) a charakteru plazmónových strát (podobne ako v kovovom Al) sme dospeli k záveru, že beta-Al3Mg2 je kov s takmer voľnými elektrónmi. Analýza našich dát ukazuje, že hybridizácia Al sp – Fe d hrá významnú úlohu v elektrónovej štruktúre Al13Fe4. Práca (publikácia vo Phys Rev. B) súčasne potvrdzuje výkonnosť metód HAXPES and DFT pri skúmaní elektrónovej štruktúry komplexných kovových zliatin a objasňovaní mechanizmov ich stabilizácie.

36.) 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: 1770 €

Dosiahnuté výsledky:
Pomocou špeciálne upravenej technológie naprašovania sme pripravili viaceré typy uhlíkových nanočastíc pokrytých naprášenými tenkými vrstvami Ni a Co s cieľom vytvorenia mostíkového spoja na zlepšenie zmáčavosti medzi nanočasticami a roztavenou spájkou. Preskúmali sme vplyv takto upravených prímesí v spájke typu SAC na pevnosť spojov Cu-SAC-Cu. Porovnávacími meraniami a štruktúrnou analýzou pomocou SEM/EDS sme vyhodnotili mieru zmáčania pokrytých uhlíkových nanočastíc spájkou a korelovali sme technologické parametre s vývojom pevnosti spoja. Podobný predbežný experiment na preskúmanie zmáčavosti a reakcie na rozhraní sme pripravili pre system Sn-NiO (prednáška a poster na konferencii HTC 2022, 10th Intl. Conf. on High-Temperature Capillarity, Krakow, prednáška NANO2022, Lviv).

37.) Tribologické vlastnosti 2D materiálov a príbuzných nanokompozitov *(Tribological properties of 2D materials and related nanocomposites)*

Zodpovedný riešiteľ:	Milan Ťapajna
Zodpovedný riešiteľ v organizácii SAV:	Peter Šiffalovič
Trvanie projektu:	1.7.2018 / 30.6.2022
Evidenčné číslo projektu:	APVV-17-0560
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum pre využitie pokročilých materiálov SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:
Preskúmali sme nanotribologické vlastnosti jedno- a dvojvrstvových Ti3C2Tx MXénov deponovaných Langmuirovou-Schaeferovou technikou na substrátoch SiO2/Si. Trenie všetkých vzoriek preukázalo vynikajúce mazacie vlastnosti vzhľadom na substrát SiO2, pričom sa zistilo, že trecia sila jednovrstvových bola mierne vyššia v porovnaní s dvoj- a trojvrstvovými vrstvami, ktoré vykazovali podobné trenie. Koeficient trenia sa odhadol na 0,087 ± 0,002 a 0,082 ± 0,003 pre jednovrstvové a dvojvrstvové vrstvy. Ako dominantný mechanizmus trenia pri vysokých rýchlostiach skenovania sa navrhol viskózny režim, zatiaľ čo pri nízkych rýchlostiach sklzu sa navrhlo, že trenie riadia meniskové sily ovplyvnené znečistením povrchu MXenes.

38.) 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:
Pomocou metódy tenzorovej siete sme študovali magnetický systém v prítomnosti imaginárneho magnetického poľa, čo malo za následok vznik singularít v partičnej funkcii a spontánnej magnetizácii. Identifikovali a vypočítali sme kritické exponenty.
Uvažovali sme o komplexnej anizotrópnej deformácii v 6-stavovom systéme, v ktorom sa sme pozorovali trikritický bod, kde sa spájali dva fázové prechody typu Kosterlitz-Thouless and jeden nespojitý fázovný prechod. Identifikovali sme tri odlišné fázy, zostrojili fázový diagram a našli trikritický bod pre alfa=0.214 a pri teplote T=0.834. Tento trikritický bod vykazuje fázový prechod druhého rádu s exponentami beta = 1/10 and delta = 14.
Výsledky boli publikované v 2 CC publikáciách.

39.) 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: 61112 €

Dosiahnuté výsledky:
Bola vykonaná druhá časť experimentálneho programu na Univerzite v Jyväskylä - štúdium izomérických stavov v izotope 179Au. Bol použitý detekčný systém navrhnutý a skonštruovaný na Fyzikálnom ústave SAV. Nový systém vo fokálnej rovine separátora RITU umožnil výrazné zvýšenie toku zväzku. V kombinácii so zvýšenou detekčnou účinnosťou gama žiarenia umožnilo až 40-násobné zvýšenie štatistickej kvality dát v porovnaní s predošlými experimentami. Už online analýza dát ukázala mnohé slabé rozpadové vetvy izoméru v 179Au. Využitie detektorov typu BEGe umožňuje získať informácie o beta premenách mnohých izotopov v okolí 179Au.
V laboratóriu v Piešťanoch bol postavený lineárny polarimeter a v súčasnosti je pripravený na merania zmiešavacích M1/E2 pomerov v izotopoch v okolí 58Ni.

40.) 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: 47505 €

Dosiahnuté výsledky:
Vyšlo 11 prác. Skúmali sme fázové prechody vo voľne fermionických topologických systémoch, ktoré nevykazujú ani narúšanie symetrie, ani previazanie na veľké vzdialenosti. Analyticky sme demonštrovali, že kvantovo vylepšené snímanie je možné pomocou topologických okrajových stavov blízko fázovej hranice. Okrem toho sme tiež poskytli pevnú a jednoduchú stratégiu merania, ktorá dosahuje takmer optimálnu presnosť pre snímanie pomocou všeobecných okrajových stavov bez ohľadu na hodnotu parametra. To pripravuje pôdu pre vývoj topologických kvantových senzorov, od ktorých sa očakáva, že budú odolné aj voči lokálnym poruchám. Ďalej sme odhadli maximálnu mieru koherencie, ktorú je možné vytvoriť v rámci kompletného neselektívneho procesu merania. Naše zistenia tiež naznačujú, že čím viac prvkov POVM je prítomných v meraní, ktoré pôsobí na kvantový systém, tým menšia bude jeho schopnosť vytvárať koherenciu. V sérii štyroch článkov sme skúmali zovšeobecnené entropické verzie vzťahov neistoty a ich význam pre kvantové spracovanie informácií. Študovali sme obmedzenia zdieľateľnosti kvantového nesúladu (neklasické korelácie), skúmali sme, ako Markovianita náhodného telegrafného šumu ovplyvňuje hranice neistoty presnosti merania, ukázali sme, že spodné hranice týchto vzťahov závisia od komplementarity pozorovateľných prvkov, podmienených von-Neumann entropií, Holevovej veličiny a kvantovej vzájomnej informácie.

Programy: MoRePro

41.) Operačná kvantová termodynamika *(Operational quantum thermodynamics)*

Zodpovedný riešiteľ:	Mohammed Hamed Mohammady
Trvanie projektu:	1.4.2020 / 28.2.2022
Evidenčné číslo projektu:	19MRP0027
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

Programy: Ministerstvo školstva, vedy, výskumu a športu

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

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

Dosiahnuté výsledky:
Bola študovaná alfa premena izotopu 183Tl, ktorá má zásadný dopad na jadrovú štruktúru 179Au. Bol objavený nový prechod, ktorý indikuje prítomnosť silne deformovaných štruktúr pri nízkej excitačnej energii.

Programy: IMPULZ

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

Zodpovedný riešiteľ:	Denis Kochan
Trvanie projektu:	1.5.2022 / 30.4.2027
Evidenčné číslo projektu:	IM-2021-26
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 72823 €

Dosiahnuté výsledky:
Výsledky publikované v dvoch článkoch Phys/ Rev. X 12, 041020 (2022) a Phys. Rev. B 105, 205409 (2022). Skúmali sme pripínacie vlastnosti epitaxných heteroštruktúr na báze Al=InAs. Zistili sme výrazný pokles vírivej indukčnosti so zvyšujúcim sa poľom v rovine, čo zodpovedá kontraintuitívnemu zvýšeniu sily prichytenia a analyticky sme preukázali, že zvýšenie prichytenia a jeho anizotropia sú dôsledkom prítomnosti Lifshitzových invariantných termínov v Ginzburg-Landau. voľná energia. Ďalej sme skúmali spektrálnu a transportnú súhru medzi rezonanciami a supravodivou koherenciou indukovanou v dvojvrstvovom graféne blízkosťou s-vlnového supravodiča. Analýzou dopingových a teplotných závislostí rýchlostí spin-relaxácie kvázičastíc, energií stavov Yu-Shiba-Rusinov, Andreevovho spektra a superprúdových charakteristík Josephsonových spojov sme našli jedinečné supravodivé podpisy rozlišujúce medzi rezonančnými a mimorezonančnými režimami.

Príloha C
Publikačná činnosť organizácie (*generovaná z ARL*)

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01 ADACHI, Yuuki - WEI, Huan Fei - ZHANG, Quanzhen - MIYAZAKI, Masato - SUGAWARA, Yasuhiro - BRNDIAR, Ján - KANTOROVICH, Lev - ŠTICH, Ivan - LI, Yanjun**. Charge State Tristability of Oxygen Adatom on a Rutile TiO2(110)−(1 × 1) Surface Controlled by Atomic Force Microscopy. In Journal of Physical Chemistry C, 2022, vol. 126, no. 10, p. 5064-5069. (2021: 4.177 - IF, Q2 - JCR, 1.103 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 1932-7447. Dostupné na: https://doi.org/10.1021/acs.jpcc.2c00347

ADCA02 AHMADI, Fatemeh - HASELI, Soroush** - HADIPOUR, Maryam - HESHMATIAN, Sara - DOLATKHAH, Hazhir - SALIMI, Shahriar. Quantum Speed Limit Time of Topological Qubits Influenced by the Fermionic and Bosonic Environments. In Brazilian Journal of Physics, 2022, vol. 52, no. 3, art. no. 85. (2021: 1.364 - IF, Q3 - JCR, 0.277 - SJR, Q3 - SJR). ISSN 0103-9733. Dostupné na: https://doi.org/10.1007/s13538-022-01092-w

ADCA03 ALI, Israt - DIN, Muhammad Faraz Ud - GU, Zhi-Gang**. MXenes Thin Films: From Fabrication to Their Applications. In Molecules, 2022, vol. 27, no. 15, art. no. 4925. (2021: 4.927 - IF, Q2 - JCR, 0.705 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules27154925

ADCA04 ALI, Israt - DIN, Muhammad Faraz Ud - CUZZUPè, Daniele T. - FAKHARUDDIN, Azhar - LOUIS, Hitler - NABI, Ghulam - GU, Zhi-Gang**. Ti3C2Tx-Modified PEDOT:PSS Hole-Transport Layer for Inverted Perovskite Solar Cells. In Molecules, 2022, vol. 27, no. 21, art. no. 7452. (2021: 4.927 - IF, Q2 - JCR, 0.705 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules27217452

ADCA05 APPEL, Paul - HEILMAN, Alexander J. - WERTZ, Ezekiel W. - LYONS, David W. - HUBER, Marcus - PIVOLUSKA, Matej - VITAGLIANO, Giuseppe. Finite-Function-Encoding Quantum States. In Quantum : the open journal for quantum science, 2022, vol. 6, p. 708. (2021: 6.439 - IF, Q1 - JCR, 2.713 - SJR, Q1 - SJR). ISSN 2521-327X. Dostupné na: https://doi.org/10.22331/Q-2022-05-09-708

ADCA06 ASHRAF, Muhammad Adeel - VÉGSO, Karol - SHAJI, Ashin - BODIK, Michal - SÁNCHEZ, Mayela García - ZUBAIR, Muhammad - DIN, Muhammad Faraz Ud - MAJKOVÁ, Eva - STRAKOVÁ FEDORKOVÁ, Andrea - KECKES, Jozef - ŠIFFALOVIČ, Peter**. Aligned Bilayer of Single-Walled Carbon Nanotubes Suppresses the Polysulfide Shuttle in Li-S Batteries. In ACS Applied Energy Materials, 2022, vol. 5, no. 12, p. 15649-15655. (2021: 6.959 - IF, Q1 - JCR, 1.613 - SJR, Q1 - SJR). ISSN 2574-0962. Dostupné na: https://doi.org/10.1021/acsaem.2c03255 (APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou. APVV-19-0461 : Anódy pre Li-iónové batérie na báze uhlík-kremíkových kompozitov. APVV-17-0352 : Časovo-rozlíšené štúdium rastu hybridných van der Waalsových heteroštruktúr. APVV-17-0560 : Tribologické vlastnosti 2D materiálov a príbuzných nanokompozitov/. APVV-19-0465 : Hybridné nízkorozmerné vrstevnaté materiály s novými funkciami. VEGA 2/0041/21. VEGA 2/0046/21 : Vplyv zabudovania MXénov do perovskitových solárnych článkov. VEGA 2/0059/21)

ADCA07 AURANEN, K.** - BRISCOE, A. D. - FERREIRA, L. S. - GRAHN, T. - GREENLEES, P. T. - HERZÁŇ, Andrej - ILLANA, A. - JOSS, D. T. -

JOUKAINEN, H. - JULIN, R. - JUTILA, H. - LEINO, M. - LOUKO, J. - LUOMA, M. - MAGLIONE, E. - OJALA, J. - PAGE, R. D. - PAKARINEN, J. - RAHKILA, P. - ROMERO, J. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - TOLOSA-DELGADO, A. - UUSITALO, J. - ZIMBA, G. Nanosecond-Scale Proton Emission from Strongly Oblate-Deformed Lu-149. In Physical Review Letters, 2022, vol. 128, no. 11, art. no. 112501. (2021: 9.185 - IF, Q1 - JCR, 3.246 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: https://doi.org/10.1103/PhysRevLett.128.112501 (APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier. VEGA 2/0067/21 : Jadrová štruktúra v okolí uzavretých protónových vrstiev)

ADCA08 BAHINI, A.** - NESTERENKO, V. O.** - USMAN, I. T. - VON NEUMANN-COSEL, P. - NEVELING, R. - CARTER, J. - KVASIL, J. - REPKO, Anton - ADSLEY, P. - BOTHA, N. - BRÜMMER, J. W. - DONALDSON, L. M. - JONGILE, S. - KHUMALO, T. C. - LATIF, M. B. - LI, K. C. W. - MABIKA, P. Z. - MOLEMA, P. T. - MOODLEY, C. S. - OLORUNFUNMI, S. D. - PAPKA, P. - PELLEGRI, L. - REBEIRO, B. - SIDERAS-HADDAD, E. - SMIT, F. D. - TRIAMBAK, S. - VAN ZYL, J. J. Isoscalar giant monopole resonance in 24 Mg and 28 Si: Effect of coupling between the isoscalar monopole and quadrupole strength. In Physical Review C, 2022, vol. 105, no. 2, art. no. 024311. (2021: 3.199 - IF, Q2 - JCR, 1.317 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: https://doi.org/10.1103/PhysRevC.105.024311

ADCA09 BALOGH, Matúš - JAJCIŠINOVÁ, E. - VENHART, Martin** - HERZÁŇ, Andrej - WOOD, J.L. - JOSS, D.T. - ALI, F.A. - AURANEN, K. - BÁNOVSKÁ, S. - BÍROVÁ, M. - CARROLL, R.J. - COX, D.M. - CUBISS, J.G. - DAVIS, T. - DRUMMOND, M.C. - GREENLEES, P. T. - GRAHN, T. - GREDLEY, A. - HENDERSON, J. - JAKOBSSON, U. - JULIN, R. - JUUTINEN, S. - KANTAY, Gulnur - KONKI, J. - KONOPKA, Pavol - LEINO, M. - MATOUŠEK, Vladislav - MISTRY, A.K. - MCPEAKE, C.G. - O´DONNELL, D. - PAGE, R.D. - PAKARINEN, J. - PAPADAKIS, P. - PARTANEN, J. - PEURA, P. - RAHKILA, P. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - SAYGı, B. - SEDLÁK, Michal - SEWERYNIAK, D. - SCHOLEY, C. - SORRI, J. - ŠPAČEK, Andrej - STOLZE, S. - TAYLOR, M. - THORNTHWAITE, A. - UUSITALO, J. - VESELSKÝ, M. - VIELHAUER, Sebastian - WEARING, F. P. New collective structures in Au-179 and their implications for the triaxial deformation of the Pt-178 core. In Physical Review C, 2022, vol. 106, no. 2, 064324. (2021: 3.199 - IF, Q2 - JCR, 1.317 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: https://doi.org/10.1103/PhysRevC.106.064324 (APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier. VEGA 2/0067/21 : Jadrová štruktúra v okolí uzavretých protónových vrstiev)

ADCA10 BARTH, Michael - FUCHS, Jacob - KOCHAN, Denis**. Spin relaxation, Josephson effect, and Yu-Shiba-Rusinov states in superconducting bilayer graphene. In Physical Review B, 2022, vol. 105, no. 20, art. no. 205409. (2021: 3.908 - IF, Q2 - JCR, 1.537 - SJR, Q1 - SJR). ISSN 1550-235X. Dostupné na: https://doi.org/10.1103/PhysRevB.105.205409

ADCA11 BARTOŠ, Erik**. Numerical multidimensional integration with PyMikor. In Computer Physics Communications, 2022, vol. 270, art. no. 108149. (2021: 4.717 - IF, Q1 - JCR, 1.284 - SJR, Q1 - SJR). ISSN 0010-4655. Dostupné na: https://doi.org/10.1016/j.cpc.2021.108149 (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)

ADCA12 BRONIS, A.** - HEßBERGER, F. P. - ANTALIC, S. - ANDEL, B. - ACKERMANN, D. - HEINZ, S. - HOFMANN, S. - KHUYAGBAATAR, J. - KINDLER, B. - KOJOUHAROV, I. - KUUSINIEMI, P. - LEINO, M. - LOMMEL, B. - MANN, R. - NISHIO, K. - POPEKO, A. G. - STREICHER, B. - SULIGNANO, B. - UUSITALO, J. - VENHART, Martin - YEREMIN, A. V. Decay studies of new isomeric states in No-255. In Physical Review C, 2022, vol. 106, no. 1, 014602. (2021: 3.199 - IF, Q2 - JCR, 1.317 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: https://doi.org/10.1103/PhysRevC.106.014602 (APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier. VEGA 2/0067/21 : Jadrová štruktúra v okolí uzavretých protónových vrstiev)

ADCA13 CONSOLATI, Giovanni** - QUASSO, Fiorenza - YAYNIK, Erkin - VANGOSA, Francesco Briatico - ŠAUŠA, Ondrej - EHRMANN, Katharina - ŠVAJDLENKOVÁ, Helena**. Thermal expansion of free volume in classic and regulated dimethacrylates: photocured directly and via a mask to study pillar formation. In Physical Chemistry Chemical Physics, 2022, vol. 24, p. 14299-14309. (2021: 3.945 - IF, Q1 - JCR, 0.899 - SJR, Q1 - SJR). ISSN 1463-9076. Dostupné na: https://doi.org/10.1039/d2cp00882c

ADCA14 ČERNIČKOVÁ, Ivona** - ĎURIŠKA, Libor - ŠVEC, Peter Jr. - ŠVEC, Peter - MIHALKOVIČ, Marek - PRIPUTEN, Pavol - ŠULHÁNEK, Patrik - JANOVEC, Jozef. Contribution to Al-Pd-Co system: Structural studies of epsilon phase and proposal of partial isothermal section at 1035 °C. In Journal of Alloys and Compounds, 2022, vol. 896, art. no. 162898. (2021: 6.371 - IF, Q1 - JCR, 1.027 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: https://doi.org/10.1016/j.jallcom.2021.162898 (APVV-20-0124 : Nové zliatiny s viacerými základnými prvkami – dizajn, charakterizácia a vlastnosti)

ADCA15 DANIEL, Rostislav - ZALESAK, Jakub - MAŤKO, Igor - BAUMEGGER, Walter - HOHENWARTER, Anton - GEORGE, Easo P. - KECKES, Jozef. Microstructure-dependent phase stability and precipitation kinetics in equiatomic CrMnFeCoNi high-entropy alloy: Role of grain boundaries. In Acta Materialia, 2022, vol. 223, art. no. 117470. (2021: 9.209 - IF, Q1 - JCR, 2.828 - SJR, Q1 - SJR). ISSN 1359-6454. Dostupné na: https://doi.org/10.1016/j.actamat.2021.117470

ADCA16 DE LEON, Jose Alfredo - FONSECA, Alejandro - LEYVRAZ, Francois - DAVALOS, David - PINEDA, Carlos**. Pauli component erasing quantum channels. In Physical Review A, 2022, vol. 106, no. 4, art. no. 042604. (2021: 2.971 - IF, Q2 - JCR, 1.183 - SJR, Q1 - SJR). ISSN 1050-2947. Dostupné na: https://doi.org/10.1103/PhysRevA.106.042604

ADCA17 DERZSI, Mariana** - TOKÁR, Kamil - PIEKARZ, Przemysław - GROCHALA, Wojciech. Charge ordering mechanism in silver difluoride. In Physical Review B, 2022, vol. 105, no. 8, art. no. L081113. (2021: 3.908 - IF, Q2 - JCR, 1.537 - SJR, Q1 - SJR). ISSN 1550-235X. Dostupné na: https://doi.org/10.1103/PhysRevB.105.L081113

ADCA18 DIN, Muhammad Faraz Ud** - HELD, Vladimír - ULLAH, Sami - SOUSANI, Shima - OMASTOVÁ, Mária - NÁDAŽDY, Vojtech - SHAJI, Ashin - ŠIFFALOVIČ, Peter - JERGEL, Matej - MAJKOVÁ, Eva. A synergistic effect of the ion beam sputtered NiOx hole transport layer and MXene doping on inverted perovskite solar cells. In Nanotechnology, 2022, vol. 33, no. 42, art. no. 425202, [7] p. (2021: 3.953 - IF, Q2 - JCR, 0.757 - SJR, Q1 - SJR). ISSN 0957-4484. Dostupné na: https://doi.org/10.1088/1361-6528/ac7ed4 (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 2/0046/21 : Vplyv zabudovania MXénov do perovskitových solárnych článkov)

ADCA19 DOLATKHAH, Hazhir - MOHAMMADI, Abolhassan** - HASELI, Soroush. The tripartite quantum-memory-assisted entropic uncertainty relation and upper bound on shareability of quantum discord. In Scientific Reports, 2022, vol. 12, no. 1, art. no. 4101. (2021: 4.997 - IF, Q2 - JCR, 1.005 - SJR, Q1 - SJR). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-022-08098-z

ADCA20 DOLATKHAH, Hazhir** - HADDADI, Saeed - HASELI, Soroush - POURKARIMI, Mohammad Reza - ZIMAN, Mário. Tripartite quantum-memory-assisted entropic uncertainty relations for multiple measurements. In European Physical Journal Plus, 2022, vol. 137, no. 10, art. no. 1163. (2021: 3.758 - IF, Q2 - JCR, 0.611 - SJR, Q2 - SJR). ISSN 2190-5444. Dostupné na: https://doi.org/10.1140/epjp/s13360-022-03374-3 (APVV-18-0518 : Optimalizačné metódy pre kvantové technológie)

ADCA21 DOLATKHAH, Hazhir** - HADDADI, Saeed - HU, Ming-Liang - POURKARIMI, Mohammad Reza. Characterizing tripartite entropic uncertainty under random telegraph noise. In Quantum Information Processing, 2022, vol. 21, no. 10, art. no. 356. (2021: 1.965 - IF, Q2 - JCR, 0.463 - SJR, Q2 - SJR). ISSN 1570-0755. Dostupné na: https://doi.org/10.1007/s11128-022-03704-5 (APVV-18-0518 : Optimalizačné metódy pre kvantové technológie)

ADCA22 DUBNIČKA, Stanislav** - DUBNIČKOVÁ, A.Z. - IVANOV, M.A. - LIPTAJ, Andrej**. Decays B→D(*)(s)h (h=π, ρ) in a confined covariant quark model. In Physical Review D, 2022, vol. 106, no. 3, art. no. 033006. (2021: 5.407 - IF, Q1 - JCR, 1.677 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 1550-7998. Dostupné na: https://doi.org/10.1103/PhysRevD.106.033006 (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)

ADCA23 DUBNIČKA, Stanislav** - DUBNIČKOVÁ, A. Z. On a Description of the Nucleon Electromagnetic Structure by Effective Proton and Neutron form Factors. In Physics of Particles and Nuclei, 2022, vol. 53, no. 4, p. 815-819. (2021: 0.786 - IF, Q4 - JCR, 0.245 - SJR, Q4 - SJR). ISSN 1063-7796. Dostupné na: https://doi.org/10.1134/S1063779622040050 (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)

ADCA24 DUBNIČKOVÁ, A. Z.** - DUBNIČKA, Stanislav - HOLKA, L. - LIPTAJ, Andrej. Advantages of a Novel Approach to the Numerical Evaluation of the Muon g – 2 Anomaly. In Physics of Particles and Nuclei, 2022, vol. 53, no. 4, p. 811-814. (2021: 0.786 - IF, Q4 - JCR, 0.245 - SJR, Q4 - SJR). ISSN 1063-7796. Dostupné na: https://doi.org/10.1134/S1063779622040062 (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)

ADCA25 DWIVEDI, Vishal - PROCHAZKA, David - JANIČKOVIČ, Dušan - ŠPERKA, Petr - ŠVEC, Peter - KAISER, Jozef - VEIS, Pavel** - POŘÍZKA, Pavel. LIBS Protocol for the Assessment of Depth Profile, Homogeneity, and Quantification of Fe/Co - based Bilayer Ribbon. In Spectrochimica Acta Part B: Atomic Spectroscopy, 2022, vol. 196, art. no. 106509. (2021: 3.662 - IF, Q1 - JCR, 0.698 - SJR, Q1 - SJR). ISSN 0584-8547. Dostupné na: https://doi.org/10.1016/j.sab.2022.106509 (VEGA 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov)

ADCA26 EGUCHI, Takuya - OGA, Satoshi - KATSURA, Hosho - GENDIAR, Andrej - NISHINO, Tomotoshi**. Energy Scale Deformation on Regular Polyhedra. In Journal of the Physical Society of Japan, 2022, vol. 91, no. 3, art. no. 034001. (2021: 1.933 - IF, Q3 - JCR, 0.674 - SJR, Q2 - SJR). ISSN 0031-9015. Dostupné na: https://doi.org/10.7566/JPSJ.91.034001

ADCA27 FERIANCOVÁ, Lucia - CIGÁŇ, Marek - KOŽÍŠEK, Jozef - GMUCOVÁ, Katarína - NÁDAŽDY, Vojtech - DUBAJ, Tibor - SOBOTA, Michal - NOVOTA, Miroslav - WEIS, Martin - PUTALA, Martin**. Dithienylnaphthalenes and quaterthiophenes substituted with electron-withdrawing groups as n-type organic semiconductors for organic field-effect transistors. In Journal of Materials Chemistry C, 2022, vol. 10, no. 27, p. 10058-10074. (2021: 8.067 - IF, Q1 - JCR, 1.608 - SJR, Q1 - SJR). ISSN 2050-7526. Dostupné na: https://doi.org/10.1039/d2tc01238c (VEGA 2/0165/22 : Hľadanie optimálnych štruktúrnych a elektronických vlastností organických polovodičových vrstiev)

ADCA28 FOS, Alen** - ŠVEC, Peter - JANOTOVÁ, Irena - JANIČKOVIČ, Dušan - BUTVINOVÁ, Beata - BÚRAN, Marek - KYRITSI, Anna - KONSTANTINIDIS, Nikolaos - NOVÁK, Patrik. Effect of Cu and Co addition on non-isothermal crystallization kinetics of rapidly quenched Fe-Sn-B based alloys. In Journal of Non-Crystalline Solids, 2022, vol. 593, no. 12, 121785. (2021: 4.458 - IF, Q1 - JCR, 0.751 - SJR, Q1 - SJR). ISSN 0022-3093. Dostupné na: https://doi.org/10.1016/j.jnoncrysol.2022.121785 (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)

ADCA29 FUCHS, L. - KOCHAN, Denis - SCHMIDT, J. - HÜTTNER, N. - BAUMGARTNER, C. - REINHARDT, S. - GRONIN, S. - GARDNER, G. C. - LINDEMANN, T. - MANFRA, M. J. - STRUNK, C. - PARADISO, N.**. Anisotropic Vortex Squeezing in Synthetic Rashba Superconductors: A Manifestation of Lifshitz Invariants. In Physical Review X, 2022, vol. 12, no. 4, 041020. (2021: 14.417 - IF, Q1 - JCR, 6.735 - SJR, Q1 - SJR). ISSN 2160-3308. Dostupné na: https://doi.org/10.1103/PhysRevX.12.041020

ADCA30 GAŠPAROVÁ, Marcela - KABAŇOVÁ, Natália - TOKÁR, Kamil. 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). ISSN 0026-9247. Dostupné na: https://doi.org/10.1007/s00706-022-02993-x

ADCA31 GENZOR, Jozef - GENDIAR, Andrej** - KAO, Ying-Jer. J1-J2 fractal studied by multirecursion tensor-network method. In Physical Review E, 2022, vol. 105, no. 2, art. no. 024124. (2021: 2.707 - IF, Q1 - JCR, 0.847 - SJR, Q1 - SJR). ISSN 2470-0045. Dostupné na: https://doi.org/10.1103/PhysRevE.105.024124

ADCA32 GHASEMI, Bita - ŠEVČÍK, Jakub - NÁDAŽDY, Vojtech - VÉGSO, Karol - ŠIFFALOVIČ, Peter - URBÁNEK, Pavel** - KUŘITKA, Ivo. Thickness Dependence of Electronic Structure and Optical Properties of F8BT Thin Films. In Polymers : Open Access Polymer Science Journal, 2022, vol. 14, no. 3, art. no. 641. (2021: 4.967 - IF, Q1 - JCR, 0.726 - SJR, Q1 - SJR). ISSN 2073-4360. Dostupné na:

https://doi.org/10.3390/polym14030641 (APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou)

ADCA33 GMUCOVÁ, Katarína**. Fundamental aspects of organic conductive polymers as electrodes. In Current Opinion in Electrochemistry, 2022, vol. 36, art. no. 101117. (2021: 7.664 - IF, Q1 - JCR, 1.819 - SJR, Q1 - SJR). ISSN 2451-9103. Dostupné na: https://doi.org/10.1016/j.coelec.2022.101117 (VEGA 2/0046/21 : Vplyv zabudovania MXénov do perovskitových solárnych článkov)

ADCA34 GOŹDZIUK, Magdalena - KAVETSKYY, Taras** - ROQUERO, Daniel Massana - SMUTOK, Oleh - GONCHAR, Mykhailo - KRÁLOVIČ, David P. - ŠVAJDLENKOVÁ, Helena - ŠAUŠA, Ondrej - KALINAY, Pavol - NOSRATI, Hamed - LEBEDEVAITE, Migle - GRAUZELIENE, Sigita - OSTRAUSKAITE, Jolita - KIV, Arnold - ZGARDZIŃSKA, Bożena**. UV-cured green polymers for biosensorics: Correlation of operational parameters of highly sensitive biosensors with nano-volumes and adsorption properties. In Materials, 2022, vol. 15, no. 19, art.no. 6607, [23] p. (2021: 3.748 - IF, Q1 - JCR, 0.604 - SJR, Q2 - SJR). ISSN 1996-1944. Dostupné na: https://doi.org/10.3390/ma15196607 (APVV-21-0335 : Zmeny mikroštruktúry a fyzikálnych vlastností zosieťovaných polymérov v objeme a v uväznených podmienkach makro- a mezopórov. VEGA 2/0134/21 : Fyzikálne vlastnosti uväznenej vody v prostredí lipidových dvojvrstiev a vplyv kryoprotektív)

ADCA35 HADDADI, Saeed** - HU, Ming-Liang - KHEDIF, Youssef - DOLATKHAH, Hazhir - POURKARIMI, Mohammad Reza - DAOUD, Mohammed. Measurement uncertainty and dense coding in a two-qubit system: Combined effects of bosonic reservoir and dipole-dipole interaction. In Results in Physics, 2022, vol. 32, no. 10, art. no 105041. (2021: 4.565 - IF, Q2 - JCR, 0.662 - SJR, Q2 - SJR). ISSN 2211-3797. Dostupné na: https://doi.org/10.1016/j.rinp.2021.105041 (APVV-18-0518 : Optimalizačné metódy pre kvantové technológie)

ADCA36 HADIPOUR, Maryam - HASELI, Soroush - DOLATKHAH, Hazhir - HADDADI, Saeed** - CZERWINSKI, Artur. Quantum Speed Limit for a Moving Qubit inside a Leaky Cavity. In Photonics, 2022, vol. 9, no. 11, art. no. 875. (2021: 2.536 - IF, Q3 - JCR, 0.558 - SJR, Q2 - SJR). ISSN 2304-6732. Dostupné na: https://doi.org/10.3390/photonics9110875

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ADCA38 HEßBERGER, F. P.** - ANTALIC, S. - GIACOPPO, F. - ANDEL, B. - ACKERMANN, D. - BLOCK, M. - HEINZ, S. - KHUYAGBAATAR, J. - KOJOUHAROV, I. - VENHART, Martin. Alpha-gamma decay studies of Md-247. In European Physical Journal A, 2022, vol. 58, no. 1, art. no. 11. (2021: 3.131 - IF, Q2 - JCR, 0.958 - SJR, Q1 - SJR). ISSN 1434-6001. Dostupné na: https://doi.org/10.1140/epja/s10050-022-00663-4 (APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier. VEGA 2/0067/21 : Jadrová štruktúra v okolí uzavretých protónových vrstiev)

ADCA39 HUANG, Zixin** - JOSHI, Siddarth Koduru* - AKTAS, Djeylan - LUPO, Cosmo - QUINTAVALLE, Armanda O. - VENKATACHALAM, Natarajan - WENGEROWSKY, Sören - LONČARIĆ, Martin - NEUMANN, Sebastian Philipp - LIU, Bo - SAMEC, Željko - KLING, Laurent - STIPČEVIĆ, Mario - URSIN, Rupert - RARITY, John G. Experimental implementation of secure anonymous protocols on an eight-user quantum key distribution network. In npj Quantum

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ADCA41 KAMAS, Dušan - OPICHAL, A. - CHERNYSHEVA, E. V. - DMITRIEV, S. N. - GULYAEV, A. V. - GULYAEVA, A. V. - HOLIK, M. - KLIMAN, Ján - KOMAROV, A. B. - KRUPA, L. - NOVOSELOV, A. S. - OGANESSIAN, Yu. Ts. - PODSHIBYAKIN, A. V. - RODIN, A. M. - SALAMATIN, V. S. - STEPANTSOV, S. V. - VEDENEE, V. Yu. - YUKHIMCHUK, S. A. Evaporation-residue cross sections in complete fusion reactions leading to Hg and Rn isotopes. In Physical Review C, 2022, vol. 105, no.4, 044612. (2021: 3.199 - IF, Q2 - JCR, 1.317 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: https://doi.org/10.1103/PhysRevC.105.044612 (VEGA 2/0181/21 : Metóda prípravy vzoriek pre IBA a XRF aplikácie)

ADCA42 KAVETSKYY, Taras** - SMUTOK, Oleh - DEMKIV, Olha - KUKHAZH, Yuliia - STASYUK, Nataliya - LEONENKO, Evhen - KIV, Arnold - KOBAYASHI, Yoshinori - KINOMURA, Atsushi - ŠAUŠA, Ondrej - GONCHAR, Mykhailo - KATZ, Evgeny. Improvement of laccase biosensor characteristics using sulfur-doped TiO2 nanoparticles. In Bioelectrochemistry, 2022, vol. 147, no. 10, 108215. (2021: 5.760 - IF, Q1 - JCR, 0.770 - SJR, Q2 - SJR). ISSN 1567-5394. Dostupné na: https://doi.org/10.1016/j.bioelechem.2022.108215 (APVV-21-0335 : Zmeny mikroštruktúry a fyzikálnych vlastností zosieťovaných polymérov v objeme a v uväznených podmienkach makro- a mezopórov)

ADCA43 KAVETSKYY, Taras** - STEBELETSKA, Natalia - BORC, Jaroslaw - KRAVTSIV, Mariana - GRAZ, Katarzyna - ŠAUŠA, Ondrej - ŠVAJDLENKOVÁ, Helena - KLEINOVÁ, Angela - KIV, Arnold - TADEUSH, Olga - STEPANOV, Andrey L. Long-range effect in ion-implanted polymers. In Vacuum, 2022, vol. 200, art. no. 111038. (2021: 4.110 - IF, Q2 - JCR, 0.738 - SJR, Q1 - SJR). ISSN 0042-207X. Dostupné na: https://doi.org/10.1016/j.vacuum.2022.111038 (VEGA 2/0134/21 : Fyzikálne vlastnosti uväznenej vody v prostredí lipidových dvojvrstiev a vplyv kryoprotektív)

ADCA44 KHEDIF, Youssef** - HADDADI, Saeed - DAOUD, Mohammed - DOLATKHAH, Hazhir - POURKARIMI, Mohammad Reza. Non-classical correlations in a Heisenberg spin model with Heitler-London approach. In Quantum Information Processing, 2022, vol. 21, no. 7, art. no. 235. (2021: 1.965 - IF, Q2 - JCR, 0.463 - SJR, Q2 - SJR). ISSN 1570-0755. Dostupné na: https://doi.org/10.1007/s11128-022-03565-y (APVV-18-0518 : Optimalizačné metódy pre kvantové technológie)

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ADCA46 KONSTANTINIDIS, Nikolaos - FOS, Alen - ŠVEC, Peter - PAPADOPOULOS, N. - VOURNA, P. - HRISTOFOROU, Evangelos**. Morphology and magnetic properties of rapidly quenched Fe-B alloys. In Journal of Magnetism and Magnetic

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ADCA47 KOTOROVÁ, Soňa** - VÁRY, Tomáš - CHLPÍK, Juraj - TOUŠEK, Jiří - TOUŠKOVÁ, Jana - RUTSCH, Radka - VÉGSO, Karol - ŠIFFALOVIČ, Peter - NÁDAŽDY, Vojtech - MAJKOVÁ, Eva - CIRÁK, Július. The influence of surface roughness on the presence of polymorphs and defect states in P3HT layers. In Applied Surface Science, 2022, vol. 573, art. no. 151539. (2021: 7.392 - IF, Q1 - JCR, 1.147 - SJR, Q1 - SJR). ISSN 0169-4332. Dostupné na: https://doi.org/10.1016/j.apsusc.2021.151539

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ADCA49 KOZAK, Andrii** - SOJKOVÁ, Michaela - GUCMANN, Filip - BODIK, Michal - VÉGSO, Karol - DOBROČKA, Edmund - PÍŠ, I. - BONDINO, F. - HULMAN, Martin - ŠIFFALOVIČ, Peter - ŤAPAJNA, Milan**. Effect of the crystallographic c-axis orientation on the tribological properties of the few-layer PtSe2. In Applied Surface Science, 2022, vol. 605, art. no. 154883. (2021: 7.392 - IF, Q1 - JCR, 1.147 - SJR, Q1 - SJR). ISSN 0169-4332. Dostupné na: https://doi.org/10.1016/j.apsusc.2022.154883 (APVV-17-0560 : Tribologické vlastnosti 2D materiálov a príbuzných nanokompozitov/. APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou. APVV-19-0461 : Anódy pre Li-iónové batérie na báze uhlík-kremíkových kompozitov. APVV-19-0365 : Metalické 2D dichalkogenidy prechodných kovov: príprava, štúdium vlastností a korelované stavy. VEGA 2/0059/21)

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ADCA51 KUNCA, Branislav** - MARCIN, Jozef - PARSONS, Richard - ŠVEC, Peter Jr. - ŠVEC, Peter - SUZUKI, Kiyonori - ŠKORVÁNEK, Ivan**. Soft magnetic performance of ultra-rapidly annealed high-B-s Fe-(Co)-B nanocrystalline alloys at elevated temperatures. In Journal of Alloys and Compounds, 2022, vol. 911, art. no. 165033. (2021: 6.371 - IF, Q1 - JCR, 1.027 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: https://doi.org/10.1016/j.jallcom.2022.165033 (APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania)

ADCA52 LUO, Cihang** - BEUTEL, Rolf G. - ENGEL, Michael - LIANG, Kun - LI, Liqin - LI, Jiahao - XU, Chunpeng - VRŠANSKÝ, Peter - JARZEMBOWSKI, Edmund - WANG, Bo**. Life history and evolution of the enigmatic Cretaceous-Eocene

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ADCA53 MACHATA, Peter** - HOFBAUEROVÁ, Monika, Benkovičová - SOYKA, Yaryna - STEPURA, Anastasiia - TRUCHAN, Daniel - HALAHOVETS, Yuriy - MIČUŠÍK, Matej - ŠIFFALOVIČ, Peter - MAJKOVÁ, Eva - OMASTOVÁ, Mária**. Wettability of MXene films. In Journal of Colloid and Interface Science, 2022, vol. 622, p. 759-768. (2021: 9.965 - IF, Q1 - JCR, 1.397 - SJR, Q1 - SJR). ISSN 0021-9797. Dostupné na: https://doi.org/10.1016/j.jcis.2022.04.135 (APVV-19-0465 : Hybridné nízkorozmerné vrstevnaté materiály s novými funkciami. APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou)

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ADCA56 MARKOVIĆ, Zoran M.** - KOVÁČOVÁ, Mária - JEREMIĆ, Sanja R. - NAGY, Štefan - MILIVOJEVIĆ, Dušan D. - KUBAT, Pavel - KLEINOVÁ, Angela - BUDIMIR, Milica D. - MOJSIN, Marija M. - STEVANOVIĆ, Milena J. - ANNUŠOVÁ, Adriana - ŠPITÁLSKY, Zdenko - TODOROVIĆ MARKOVIĆ, Biljana M.**. Highly efficient antibacterial polymer composites based on hydrophobic riboflavin carbon polymerized dots. In Nanomaterials-Basel, 2022, vol. 12, no. 22, art. no. 4070. (2021: 5.719 - IF, Q1 - JCR, 0.839 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 2079-4991. Dostupné na: https://doi.org/10.3390/nano12224070

ADCA57 MIČKY, Simon - BODÍK, Michal - MIČETIĆ, Maja - FETZER, Florian - STRIENZ, Markus - HELD, Vladimír - JERGEL, Matej - SCHNEPF, Andreas - SCHREIBER, Frank - ŠIFFALOVIČ, Peter**. Multilayer Langmuir Film of Monodisperse Au Nanoclusters: Unusual Growth via Bilayers. In Langmuir, 2022, vol. 38, p. 14850-14856. (2021: 4.331 - IF, Q2 - JCR, 0.884 - SJR, Q1 - SJR). ISSN 0743-7463. Dostupné na: https://doi.org/10.1021/acs.langmuir.2c02514 (APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou. APVV-19-0461 : Anódy pre Li-iónové batérie na báze uhlík-kremíkových kompozitov. APVV-17-0352 : Časovo-rozlíšené štúdium rastu hybridných van der Waalsových heteroštruktúr. APVV-17-0560 : Tribologické vlastnosti 2D materiálov a príbuzných nanokompozitov/. APVV-18-0480 : Cielený dizajn hydrogélových mikrokapsúl pre imunitnú ochranu pankreatických ostrovčekov v liečbe cukrovky. APVV-19-0465 : Hybridné nízkorozmerné vrstevnaté materiály s novými funkciami. APVV-19-0365 : Metalické 2D dichalkogenidy prechodných kovov: príprava, štúdium vlastností a korelované stavy. VEGA 2/0041/21. VEGA 2/0046/21 : Vplyv zabudovania MXénov do perovskitových solárnych článkov)

ADCA58 MIHÁLIKOVÁ, Ivana - PIVOLUSKA, Matej** - PLESCH, Martin - FRIÁK, Martin - NAGAJ, Daniel - ŠOB, Mojmír. The cost of improving the precision of the variational quantum eigensolver for quantum chemistry. In Nanomaterials-Basel, 2022, vol. 12, no. 2, art. no. 243. (2021: 5.719 - IF, Q1 - JCR, 0.839 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 2079-4991. Dostupné na: https://doi.org/10.3390/nano12020243

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ADCA61 MRKÝVKOVÁ, Naďa, Tesařová** - HELD, Vladimír - HALAHOVETS, Yuriy - NÁDAŽDY, Peter - JERGEL, Matej - MAJKOVÁ, Eva - SCHREIBER, F. - ŠIFFALOVIČ, Peter. Simultaneous measurement of X-ray scattering and photoluminescence during molecular deposition. In Journal of Luminescence, 2022, vol. 248, art. no. 118950. (2021: 4.171 - IF, Q2 - JCR, 0.640 - SJR, Q2 - SJR). ISSN 0022-2313. Dostupné na: https://doi.org/10.1016/j.jlumin.2022.118950 (APVV-17-0352 : Časovo-rozlíšené štúdium rastu hybridných van der Waalsových heteroštruktúr. APVV-19-0465 : Hybridné nízkorozmerné vrstevnaté materiály s novými funkciami. APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou. SK-AT-20-0006 : Molekulárne nanoštruktúry na dvojdimenzionálnych subsrátov. VEGA 2/0046/21 : Vplyv zabudovania MXénov do perovskitových solárnych článkov)

ADCA62 OJALA, Joonas - PAKARINEN, Janne** - PAPADAKIS, Philippos - SORRI, Juha - SANDZELIUS, Mikael - COX, Daniel M. - AURANEN, Kalle - BADRAN, Hussam - DAVIES, Paul J. - GRAHN, Tuomas - GREENLEES, Paul T. - HENDERSON, Jack - HERZÁŇ, Andrej - HERZBERG, Rolf-Dietmar - HILTON, Joshua - JAKOBSSON, Ulrika - JENKINS, David G. - JOSS, David T. - JULIN, Rauno - JUUTINEN, Sakari - KIBÉDI, Tibor - KONKI, Joonas - LANE, Gregory J. - LEINO, Matti - LIIMATAINEN, Jarkko - MCPEAKE, Christopher G. - NEUVONEN, Olavi - PAGE, Robert D. - PARR, Edward - PARTANEN, Jari - PEURA, Pauli - RAHKILA, Panu - REVILL, John - RUOTSALAINEN, Panu - SARÉN, Jan - SCHOLEY, Catherine - STOLZE, Sanna - UUSITALO, Juha - WARD, Andrew - WADSWORTH, Robert. Reassigning the shapes of the 0(+) states in the Pb-186 nucleus. In Communications Physics, 2022, vol. 5, art. no. 213. (2021: 6.497 - IF, Q1 - JCR, 2.130 - SJR, Q1 - SJR). ISSN 2399-3650. Dostupné na: https://doi.org/10.1038/s42005-022-00990-4 (VEGA 2/0067/21 : Jadrová štruktúra v okolí uzavretých protónových vrstiev. APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier)

ADCA63 PALAIA, Ivan - GOYAL, Abhay - DEL GADO, Emanuela - ŠAMAJ, Ladislav - TRIZAC, Emmanuel**. Like-Charge Attraction at the Nanoscale: Ground-State Correlations and Water Destructuring. In Journal of Physical Chemistry B, 2022, vol. 126, no. 16, p. 3143-3149. (2021: 3.466 - IF, Q3 - JCR, 0.795 - SJR, Q1 - SJR).

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ADCA64 PARR, E. - SMITH, J. F. - GREENLEES, P. T. - BUTLER, P. A. - AURANEN, K. - CHAPMAN, R. - COX, D. M. - CULLEN, D. M. - GAFFNEY, L. P. - GRAHN, T. - GREGOR, E. T. - GROCUTT, L. - HERZÁŇ, Andrej - HERZBERG, R.-D. - HODGE, D. - JAKOBSSON, U. - JULIN, R. - JUUTINEN, S. - KEATINGS, J. M. - KONKI, J. - LEINO, M. - MCKEE, P. P. - MCPEAKE, C. - MENGONI, D. - MISTRY, A. K. - NARA SINGH, B. S. - O'NEILL, G. G. - PAKARINEN, J. - PAPADAKIS, P. - PARTANEN, J. - PEURA, P. - RAHKILA, P. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - SCHECK, M. - SCHOLEY, C. - SICILIANO, M. - SMOLEN, M. - SORRI, J. - SPAGNOLETTI, P. - SPOHR, K. M. - STOLZE, S. - TAYLOR, M. J. - UUSITALO, J. Single-particle states and parity doublets in odd-Z Ac-221 and Pa-225 from alpha-decay spectroscopy. In Physical Review C, 2022, vol. 105, no. 3, art. no. 034303. (2021: 3.199 - IF, Q2 - JCR, 1.317 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: https://doi.org/10.1103/PhysRevC.105.034303 (APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier. VEGA 2/0067/21 : Jadrová štruktúra v okolí uzavretých protónových vrstiev)

ADCA65 PELET, Yoann - PUTHOOR, Ittoop Vergheese - VENKATACHALAM, Natarajan - WENGEROWSKY, Sören - LONČARIĆ, Martin - NEUMANN, Sebastian Philipp - LIU, Bo - SAMEC, Željko - STIPČEVIĆ, Mario - URSIN, Rupert - ANDERSSON, Erika - RARITY, John G. - AKTAS, Djeylan - JOSHI, Siddarth Koduru**. Unconditionally secure digital signatures implemented in an eight-user quantum network. In New Journal of Physics, 2022, vol. 24, no. 9, art. no. 093038. (2021: 3.716 - IF, Q2 - JCR, 1.371 - SJR, Q1 - SJR). ISSN 1367-2630. Dostupné na: https://doi.org/10.1088/1367-2630/ac8e25

ADCA66 PIOMBO, Riccardo - JEZIERSKI, Daniel - MARTINS, Henrique Perin - JARON, Tomasz - GASTIASORO, Maria N. - BARONE, Paolo - TOKÁR, Kamil - PIEKARZ, Przemysław - DERZSI, Mariana - MAZEJ, Zoran - ABBATE, Miguel - GROCHALA, Wojciech** - LORENZANA, José**. Strength of correlations in a silver-based cuprate analog. In Physical Review B, 2022, vol. 106, no. 3, art. no. 035142. (2021: 3.908 - IF, Q2 - JCR, 1.537 - SJR, Q1 - SJR). ISSN 1550-235X. Dostupné na: https://doi.org/10.1103/PhysRevB.106.035142

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ADCA68 PODROJKOVÁ, Natália - PATERA, Jan - POPESCU, Radian - ŠKOVIERA, Ján - ORIŇAKOVÁ, Renáta - ORIŇAK, Andrej**. Pyrolysis Degradation of Cellulose over Highly Effective ZnO and ZnO-CuO Nanocatalysts. In ChemistrySelect, 2021, vol. 6, no. 17, p. 4256-4264. (2020: 2.109 - IF, Q3 - JCR, 0.437 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2365-6549. Dostupné na: https://doi.org/10.1002/slct.202100367

ADCA69 PROCHÁZKOVÁ, Eliška** - FILO, Juraj - MUŽÍKOVÁ ČECHOVÁ, Lucie - DRAČÍNSKÝ, Martin - CÍSAŘOVÁ, Ivana - JANEBA, Zlatko - KAWAMURA, Izuru - NAITO, Akira - KUBĚNA, Ivo - NÁDAŽDY, Peter - ŠIFFALOVIČ, Peter - CIGÁŇ, Marek. Photoswitching of 5-phenylazopyrimidines in crystalline powders and thin films. In Dyes and Pigments, 2022, vol. 199, art. no. 110066. (2021: 5.122 - IF, Q1 - JCR, 0.699 - SJR, Q1 - SJR). ISSN 0143-7208. Dostupné na: https://doi.org/10.1016/j.dyepig.2021.110066 (APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou)

ADCA70 PUDLÁK, Michal** - PINČÁK, Richard** - BARTOŠ, Erik**. Effect of vibrational modes on electron transfer directionality: Photosynthetic reaction centers. In Physical Review E, 2022, vol. 105, no. 6, art. no. 064408. (2021: 2.707 - IF, Q1 - JCR, 0.847 - SJR, Q1 - SJR). ISSN 2470-0045. Dostupné na: https://doi.org/10.1103/PhysRevE.105.064408

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ADCA74 RUSANOV, B.A.** - SIDOROV, V.E. - ŠVEC, Peter - JANIČKOVIČ, Dušan - LAD'YANOV, V.I. - PETROVA, S.A. - SABIRZYANOV, A.A. The influence of rare-earth metals on glass-forming ability and crystallization of CoFeSiBNb amorphous alloys. In Technical Physics, 2022, vol. 92, no. 1, p. 36-39. (2021: 0.489 - IF, Q4 - JCR, 0.222 - SJR, Q3 - SJR). ISSN 1063-7842. Dostupné na: https://doi.org/10.21883/TP.2022.01.52530.165-21 (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)

ADCA75 SCARLINO, P.* - UNGERER, J. H.* - VAN WOERKOM, D. J. - MANCINI, M. - STAŇO, Peter - MÜLLER, C. - LANDIG, A. J. - KOSKI, J. V. - REICHL, C. - WEGSCHEIDER, W. - IHN, T. - ENSSLIN, K. - WALLRAFF, A. In situ Tuning of the Electric-Dipole Strength of a Double-Dot Charge Qubit: Charge-Noise Protection and Ultrastrong Coupling. In Physical Review X, 2022, vol. 12, no. 3, art. no. 031004. (2021: 14.417 - IF, Q1 - JCR, 6.735 - SJR, Q1 - SJR). ISSN 2160-3308. Dostupné na: https://doi.org/10.1103/PhysRevX.12.031004

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ADCA78 SHARMA, Bhawna - THAKUR, Sourbh - MAMB, Gcina - PRATEEK - GUPTA, Raju Kumar - GUPTA, Vijai Kumar - THAKUR, Vijay Kumar. Titania modified gum tragacanth based hydrogel nanocomposite for water remediation. In Journal of Environmental Chemical Engineering, 2021, vol. 9, no. 1, art. no. 104608. (2020: 5.909 - IF, Q1 - JCR, 0.965 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2213-3437. Dostupné na: https://doi.org/10.1016/j.jece.2020.104608

ADCA79 SIDDIQUI, Mohd Asad - SAZIM, Sheik**. Mermin and Svetlichny inequalities for non-projective measurement observables. In Journal of Physics A: Mathematical and Theoretical, 2022, vol. 55, no. 46, art. no. 465301. (2021: 2.331 - IF, Q1 - JCR, 0.760 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1751-8113. Dostupné na: https://doi.org/10.1088/1751-8121/ac9f32

ADCA80 SINGH, Vipin Kumar - KRAJČÍ, Marián - SARKAR, Shuvam - BALAL, Mohammad - BARMAN, Sajal - SADHUKHAN, Pampa - GLOSKOVSKII, Andrei - FEUERBACHER, Michael - THOMAS, Carsten - EBER, Philipp - ROTENBERG, Eli - HORN, Karsten - BARMAN, Sudipta Roy**. Electronic structure of beta-Al3Mg2 and Al13Fe4 complex metallic alloys. In Physical Review B, 2022, vol. 105, no. 20, art. no. 205107. (2021: 3.908 - IF, Q2 - JCR, 1.537 - SJR, Q1 - SJR). ISSN 1550-235X. Dostupné na: https://doi.org/10.1103/PhysRevB.105.205107 (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. APVV-20-0124 : Nové zliatiny s viacerými základnými prvkami – dizajn, charakterizácia a vlastnosti)

ADCA81 SMUTOK, Oleh** - KAVETSKYY, Taras - PROKOPIV, Tetiana - SERKIZ, Roman - ŠAUŠA, Ondrej - NOVÁK, Ivan - ŠVAJDLENKOVÁ, Helena - MAŤKO, Igor - GONCHAR, Mikhailo - KATZ, Evgeny. Biosensor based on peroxidase-mimetic nanozyme and lactate oxidase for accurate L-lactate analysis in beverages. In Biosensors, 2022, vol. 12, art. no. 1042, [11] p. (2021: 5.743 - IF, Q1 - JCR, 0.786 - SJR, Q2 - SJR). ISSN 2079-6374.

ADCA82 STAŇO, Peter** - LOSS, Daniel. Review of performance metrics of spin qubits in gated semiconducting nanostructures. In Nature Reviews Physics, 2022, vol. 4, no. 10, p. 672-688. (2021: 36.273 - IF, Q1 - JCR, 8.971 - SJR, Q1 - SJR). ISSN 2522-5820. Dostupné na: https://doi.org/10.1038/s42254-022-00484-w

ADCA83 SUROVČÍK, J.** - MEDVECKÁ, V. - GREGUŠ, J. - GREGOR, M. - ROCH, T. - ANNUŠOVÁ, Adriana - ĎURINA, P. - VOJTEKOVÁ, Tatiana. Characterization of TiO2 nanofibers with enhanced photocatalytic properties prepared by plasma assisted calcination. In Ceramics International, 2022, vol. 48, no. 24, p.

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ADCA84 SZEWCZYK, Roman** - NOWICKI, Michał - PETRUK, Oleg - OSTASZEWSKA-LIŻEWSKA, Anna - KOLANO-BURIAN, Aleksandra - POLAK, Marcin - NOWAK, Paweł - GAZDA, Piotr - BIEŃKOWSKI, Adam - KOROBIICHUK, Igor - SZUMIATA, Tadeusz - ŠVEC, Peter - ZIELIŃSKI, Jacek - KAMIŃSKI, Marcin - CHARUBIN, Tomasz. Improved gyrator-capacitor modeling of inductive components with a FINEMET-type nanocrystalline alloy core using SPICE. In Journal of Magnetism and Magnetic Materials, 2022, vol. 555, art. no. 169376. (2021: 3.097 - IF, Q3 - JCR, 0.606 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: https://doi.org/10.1016/j.jmmm.2022.169376

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ADCA86 TÓTHOVÁ, Erika** - TARASENKO, Róbert - TKÁČ, Vladimír - ORENDÁČ, Martin - BALÁŽ, Matej - SENNA, Mamoru - KUBUKI, Shiro - TAKAHASHI, Masashi - ŠVEC, Peter Jr. - ŠVEC, Peter - GIRMAN, Vladimír. Improved mechanically induced synthesis of nanocrystalline gadolinium oxymolybdate. In Journal of Solution Chemistry, 2022, vol. 315, art. no. 123500. (2021: 2.000 - IF, Q4 - JCR, 0.326 - SJR, Q3 - SJR). ISSN 0095-9782. Dostupné na: https://doi.org/10.1016/j.jssc.2022.123500

ADCA87 TÓTHOVÁ, Erika** - TARASENKO, R. - TKÁČ, Vladimír - ORENDÁČ, Martin - BALÁŽ, Matej - SENNA, M. - KUBUKI, Shiro - TAKAHASHI, M. - ŠVEC, Peter Jr. - ŠVEC, Peter - GIRMAN, Vladimír. Improved mechanically induced synthesis of nanocrystalline gadolinium oxymolybdate. In Journal of Solid State Chemistry, 2022, vol. 315, art.no.123500. (2021: 3.656 - IF, Q2 - JCR, 0.576 - SJR, Q2 - SJR). ISSN 0022-4596. Dostupné na: https://doi.org/10.1016/j.jssc.2022.123500 (APVV 19-0526 : RELATIONSHIPS BETWEEN STRUCTURE AND UNUSUAL PHYSICAL PROPERTIES IN HIGHLY NONEQUILIBRIUM OXIDES PREPARED BY UNCONVENTIONAL MECHANOCHEMICAL SYNTHESIS. APVV 18-0357 : Chalkogenidy ako perspektívne ekologicky a ekonomicky prijateľné nanomateriály pre energetiku a medicínu)

ADCA88 TRAVĚNEC, Igor** - ŠAMAJ, Ladislav. Generation of off-critical zeros for hypercubic Epstein zeta functions. In Applied Mathematics and Computation, 2022, vol. 413, art. no. 126611. (2021: 4.397 - IF, Q1 - JCR, 1.038 - SJR, Q1 - SJR). ISSN 0096-3003. Dostupné na: https://doi.org/10.1016/j.amc.2021.126611 (VEGA 2/0092/21 : Štatistická mechanika klasických coulombovských systémov)

ADCA89 ULLAH, S.** - DIN, Muhammad Faraz Ud* - KASI, Jafar Khan - KASI, Ajab Khan - VÉGSO, Karol - KOTLAR, Mario - MIČUŠÍK, Matej - JERGEL, Matej - NÁDAŽDY, Vojtech - ŠIFFALOVIČ, Peter - MAJKOVÁ, Eva - FAKHARUDDIN, Azhar. Mesoporous SnO2 Nanoparticle-Based Electron Transport Layer for Perovskite Solar Cells. In ACS Applied Nano Materials, 2022, vol. 5, no. 6, p. 7822-7830. (2021: 6.140 - IF, Q2 - JCR, 1.178 - SJR, Q1 - SJR). ISSN 2574-0970. Dostupné na: https://doi.org/10.1021/acsanm.2c00840 (APVV-19-0461 : Anódy pre Li-iónové batérie na báze uhlík-kremíkových kompozitov. APVV-19-0465 : Hybridné nízkorozmerné vrstevnaté materiály s novými funkciami. 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. APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou. VEGA 2/0041/21. VEGA 2/0046/21 : Vplyv zabudovania MXénov do perovskitových solárnych článkov)

ADCA90 VÉGSO, Karol** - SHAJI, Ashin - SOJKOVÁ, Michaela - PRIBUSOVÁ SLUŠNÁ, Lenka - VOJTEKOVÁ, Tatiana - HRDÁ, Jana - HALAHOVETS, Yuriy - HULMAN, Martin - JERGEL, Matej - MAJKOVÁ, Eva - WIESMANN, J. - ŠIFFALOVIČ, Peter. A wide-angle X-ray scattering laboratory setup for tracking phase changes of thin films in a chemical vapor deposition chamber. In Review of Scientific Instruments, 2022, vol. 93, no. 11, no. 113909. (2021: 1.843 - IF, Q3 - JCR, 0.606 - SJR, Q2 - SJR). ISSN 0034-6748. Dostupné na: https://doi.org/10.1063/5.0104673 (ITMS2014+: 313021T081 : Vybudovanie Centra pre využitie pokročilých materiálov Slovenskej akadémie vied. 313021W404 : Medzinárodné centrum excelentnosti pre výskum inteligentných a bezpečných informačno-komunikačných technológií a systémov – II. etapa. APVV-19-0365 : Metalické 2D dichalkogenidy prechodných kovov: príprava, štúdium vlastností a korelované stavy. APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou. VEGA 2/0041/21. VEGA 2/0046/21 : Vplyv zabudovania MXénov do perovskitových solárnych článkov)

ADCA91 VENHART, Martin** - ANDREYEV, A. N. - CUBISS, J. G. - WOOD, J. L. - BARZAKH, A. E. - VAN BEVEREN, C. - COCOLIOS, T. E. - DE GROOTE, R. P. - FEDOROV, D. V. - FEDOSSEEV, V. N. - FERRER, R. - FINK, D. A. - GHYS, L. - HUYSE, M. - KÖSTER, U. - LANE, J. - LIBERATI, V. - LYNCH, K. M. - MARSH, B. A. - MOLKANOV, P. L. - PROCTER, T. J. - RAPISARDA, E. - SANDHU, K. - SELIVERSTOV, M. D. - SJÖDIN, A. M. - VAN DUPPEN, P. - VESELSKÝ, M. Decay modes of the 9/2(-) isomeric state in Tl-183. In Physical Review C, 2022, vol. 105, no. 3, 034338. (2021: 3.199 - IF, Q2 - JCR, 1.317 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: https://doi.org/10.1103/PhysRevC.105.034338 (VEGA 2/0067/21 : Jadrová štruktúra v okolí uzavretých protónových vrstiev. APVV-20-0532 : Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier)

ADCA92 WANG, Yu-Min - KÁLOSI, Anna - HALAHOVETS, Yuriy - ROMANENKO, Iryna - SLABÝ, Jiří - HOMOLA, Jiří - SVOBODA, Jan - DE LOS SANTOS PEREIRA, Andres** - POP-GEORGIEVSKI, Ognen**. Grafting density and antifouling properties of poly[N-(2-hydroxypropyl) methacrylamide] brushes prepared by "grafting to" and "grafting from". In Polymer Chemistry, 2022, vol. 13, no. 25, p. 3815-3826. (2021: 5.364 - IF, Q1 - JCR, 1.120 - SJR, Q1 - SJR). ISSN 1759-9954. Dostupné na: https://doi.org/10.1039/d2py00478j

ADCA93 YAKYMOVYCH, Andriy** - PLEVACHUK, Yuriy** - OROVČÍK, Ľubomír - ŠVEC, Peter. Nanocomposite SAC solders: the effect of heat treatment on the morphology of Sn-3.0Ag-0.5Cu/Cu solder joints reinforced with Ni and Ni-Sn nanoparticles. In Applied Nanoscience, 2022, vol. 12, no. 4, p. 977-982. (2021: 3.869 - IF, Q3 - JCR, 0.505 - SJR, Q2 - SJR). ISSN 2190-5509. Dostupné na: https://doi.org/10.1007/s13204-021-01750-6 (VEGA č. 2/0172/16 : Štúdium termofyzikálnych vlastností kompozitov na báze TiB2 a ZrB2 s medenou matricou pre vyskoteplotné aplikácie. VEGA 2/0144/21 : Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov)

ADCA94 ZHANG, Man - XU, Xinzhao - AHMED, Shafique - YUE, Yajun - PALMA, Matteo - ŠVEC, Peter Jr. - GAO, Feng - ABRAHAMS, Isaac - REECE, Michael J. - YAN, Haixue. Phase transformations in an Aurivillius layer structured ferroelectric designed using the high entropy concept. In Acta Materialia, 2022, vol. 229, art. no. 117815. (2021: 9.209 - IF, Q1 - JCR, 2.828 - SJR, Q1 - SJR). ISSN 1359-6454. Dostupné na: https://doi.org/10.1016/j.actamat.2022.117815 (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)

ADCA95 ZHANG, Quanzhen - BRNDIAR, Ján - ADACHI, Yuuki - KONÔPKA, Martin - WEI, Huan Fei - MIYAZAKI, Masato - SUGAWARA, Yasuhiro - XU, Rui - CHENG, Zhi Hai - SANG, Hongqian - LI, Yanjun** - KANTOROVICH, Lev** - ŠTICH, Ivan**. Voltage- and Redox State-Triggered Oxygen Adatom Conductance Switch. In Journal of Physical Chemistry C, 2021, vol. 125, no. 48, p. 26801-26807. (2020: 4.126 - IF, Q2 - JCR, 1.401 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1932-7447. Dostupné na: https://doi.org/10.1021/acs.jpcc.1c07568

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

ADMA01 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, 2022, vol., art. no. 2205557. (2021: 19.924 - IF, Q1 - JCR, 5.000 - SJR, Q1 - SJR). ISSN 1616-301X. Dostupné na: https://doi.org/10.1002/adfm.202205557 (APVV-20-0111 : Pokročilé lítiové batérie s dlhou životnosťou)

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ADMA04 KLBIK, Ivan** - ČECHOVÁ, Katarína - MILOVSKÁ, Stanislava - RUSNÁK, Jaroslav - VLASÁČ, Jozef - MELICHERČÍK, M. - MAŤKO, Igor** - LAKOTA, Ján - ŠAUŠA, Ondrej. Cryoprotective mechanism of DMSO induced by the inhibitory effect on eutectic NaCl crystallization. In Journal of Physical Chemistry Letters, 2022, vol. 13, p. 11153-11159. (2021: 6.888 - IF, Q1 - JCR, 2.009 - SJR, Q1 - SJR). ISSN 1948-7185. Dostupné na: https://doi.org/10.1021/acs.jpclett.2c03003 (APVV-21-0335 : Zmeny mikroštruktúry a fyzikálnych vlastností zosieťovaných polymérov v objeme a v uväznených podmienkach makro- a mezopórov. VEGA 2/0134/21 : Fyzikálne vlastnosti uväznenej vody v prostredí lipidových dvojvrstiev a vplyv kryoprotektív. VEGA 2/0166/22 : Časticové mikro- a mezopórovité materiály na báze uhlíka z prírodných prekurzorov)

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ADMA08 SEDLAČKOVÁ, Katarína** - BUTVINOVÁ, Beata - PAVÚK, Milan - DEKAN, Július - SOJAK, Stanislav - NOVÁK, Patrik - SITEK, Jozef. The effect of annealing atmosphere on the structural properties of FeSiBPCu alloys with different silicon content. In Hyperfine Interactions, 2022, vol. 243, no. 1, art. no. 23. (2021: 0.329 - SJR, Q3 - SJR). ISSN 0304-3843. Dostupné na: https://doi.org/10.1007/s10751-022-01806-1 (APVV-19-0369 : Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania)

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ADMB02 BOHÁČ, Vlastimil** - TIWARI, Rupali** - DIEŠKA, Peter** - VRETENÁR, Viliam**. Analysis of the influence of the heat source, heat capacity and the heat transfer coefficient between heat source and specimen for the pulse and step-wise transient methods. In AIP Conference Proceedings, 2022, vol. 2488, art. no. 020002. (2021: 0.189 - SJR). ISSN 0094-243X. Dostupné na: https://doi.org/10.1063/5.0094146 (VEGA 1/0714/21 : Výskum vybraných vlastností trvalo udržateľných izolačných materiálov s potenciálom využitia v drevostavbách)

ADMB03 GUTIÉRREZ-RUBIO, Ángel - ROJAS-ARIAS, Juan S. - YONEDA, Jun - TARUCHA, Seigo - LOSS, Daniel - STAŇO, Peter**. Bayesian estimation of correlation functions. In Physical Review Research, 2022, vol. 4, no. 4, art. no. 043166. ISSN 2643-1564. Dostupné na: https://doi.org/10.1103/PhysRevResearch.4.043166

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ADMB06 SALEHTASH, Farnoush - ANNUŠOVÁ, Adriana - ŠIFFALOVIČ, Peter - JERGEL, Matej - MAJKOVÁ, Eva - KRONEKOVÁ, Zuzana - PELACH, Michal - LACÍK, Igor. Toward SERS-based dynamic detection of insulin diffusing through hydrogel matrices. In 2021 NANOCON Conference Proceedings - International Conference on Nanomaterials. - Ostrava, ČR : TANGER Ltd., 2021, p. 228-233. ISBN 978-80-88365-00-6. ISSN 2694-930X. Dostupné na: https://doi.org/10.37904/nanocon.2021.4363 (NANOCON 2021 : 13th International Conference on Nanomaterials - Research & Application)

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AFE Abstrakty pozvaných príspevkov zo zahraničných konferencií

AFE01 OMASTOVÁ, Mária - STEPURA, Anastasiia - SOYKA, Yaryna - MIČUŠÍK, Matej - ŠIFFALOVIČ, Peter - MAJKOVÁ, Eva - ZELENIAKIENE, D. - ANISKEVICH, A. Hybrid nanomaterials in polymeric composites and solar cells. In EPF European Polymer Congress : 26 June - 1 July 2022 : book of abstracts. 1. - Prague, Czech republic : AMCA, spol. s.r.o., 2022, p. 195. ISBN 978-80-88214-33-5. (EPF European Polymer Congress 2022)

AFG Abstrakty príspevkov zo zahraničných konferencií

AFG01 BALOGH, Róbert - ECKSTEIN ANDICSOVÁ, Anita - TOKÁR, Kamil - DANKO, Martin. Synthesis and spectral study of asymmetric thiazolo[5,4-D]thiazole based molecules with 1,3,4-oxadiazole linker for electronic application. In Polymers : 12 Czech - Slovak Conference : book of abstracts. - Prague, Czech Republic : IMC, 2022, p. 51. ISBN 978-80-85009-96-5. (Polymers : 12 Czech - Slovak Conference. Polymers : 12 Czech - Slovak Conference)

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AFG05 RUSKOVÁ, Magdaléna - HOFBAUEROVÁ, Monika, Benkovičová - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - ANNUŠOVÁ, Adriana - PANGALLO, Domenico. Antibiofilm activity of poly(ε-caprolactone) nanocapsules loaded with essential oils for protection and disinfection whitewood and sandstone. In 29. Kongres Československé společnosti mikrobiologické s mezinárodní účastí : Abstrakty-Prednášky-Postery, 15. - 17. 9. 2022, Brno. 1. vydanie. - Brno : Československá společnost mikrobiologická z.s., 2022, p22 [p. 128]. ISBN 978-80-88379-18-8. Dostupné na internete:

https://system.bpp.cz/upload/files/%C4%8CSSM%202022/Sborn%C3%ADk%20slou%C4%8Deno.pdf (Kongres Československé společnosti mikrobiologické s mezinárodní účastí : 28. Moravsko-slovenské mikrobiologické dny. VEGA 2/0082/22 : Využitie biokompatibilných 2D nanomateriálov a nanočastíc ako ochrana pred biodeterioráciou rôznych druhov povrchov. Kongres Československé společnosti mikrobiologické s mezinárodní účastí : 28. Moravsko-slovenské mikrobiologické dny)

AFH Abstrakty príspevkov z domácich konferencií

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AFC05 VALIK, L. - ŤAPAJNA, Milan - GUCMANN, Filip - FEDOR, Ján - ŠIFFALOVIČ, Peter - FRÖHLICH, Karol. Distribution of fixed charge in MOS structures with ALD grown Al2O3 studied by capacitance measurements. In ASDAM 2012 : conference proceedings. Eds. Š. Haščík, J. Osvald. - Piscataway : IEEE, 2012, p. 227-230. ISBN 978-1-4673-1195-3.

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1. [1.1] BLATTBERG, Charles. GAPS: WHEN NOT EVEN NOTHING IS THERE. In COMPARATIVE PHILOSOPHY-AN INTERNATIONAL JOURNAL OF CONSTRUCTIVE ENGAGEMENT OF DISTINCT APPROACHES TOWARD WORLD PHILOSOPHY, 2021, vol. 12, no. 1, pp. 30-54. Dostupné na: https://doi.org/10.31979/2151-6014(2021).120106., Registrované v: WOS

2. [1.1] CAMPBELL, Steve - VACCHINI, Bassano. Collision models in open system dynamics: A versatile tool for deeper insights? In EPL. ISSN 0295-5075, 2021, vol. 133, no. 6, 60001. Dostupné na: https://doi.org/10.1209/0295-5075/133/60001., Registrované v: WOS

3. [1.1] KARPAT, Goktug - YALCINKAYA, Iskender - CAKMAK, Baris - LUCA GIORGI, Gian - ZAMBRINI, Roberta. Synchronization and non-Markovianity in open quantum systems. In PHYSICAL REVIEW A. ISSN 2469-9926, 2021, vol. 103, no. 6, 062217. Dostupné na: https://doi.org/10.1103/PhysRevA.103.062217., Registrované v: WOS

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Mgr. Andrej Gendiar, PhD.
Názov semestr. predmetu: Kvantové simulácie a výpočty
Počet hodín za semester: 26
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra teoretickej fyziky, FMFI UK

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

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

RNDr. Ondrej Šauša, CSc.
Názov semestr. predmetu: Atómová a jadrová fyzika
Počet hodín za semester: 26
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra jadrovej chémie a rádioekológie

RNDr. Ondrej Šauša, CSc.
Názov semestr. predmetu: Jadrové metódy vo výskume a praxi
Počet hodín za semester: 26
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra jadrovej chémie a rádioekológie

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: Kvantová teória merania
Počet hodín za semester: 26
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, FMFI

Doc. Mgr. Mário Ziman, PhD.
Názov semestr. predmetu: Kvantové počítanie
Počet hodín za semester: 52
Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, FIIT

Doc. Mgr. Mário Ziman, PhD.
Názov semestr. predmetu: Matematické štruktúry kvantovej fyziky
Počet hodín za semester: 39

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, FMFI

Doc. Mgr. Mário Ziman, PhD.
Názov semestr. predmetu: Programovanie kvantových počítačov
Počet hodín za semester: 52
Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, FEI

Doc. Mgr. Mário Ziman, PhD.
Názov semestr. predmetu: Úvod do kvantovej teórie informácie
Počet hodín za semester: 39
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, FMFI

Semestrálne cvičenia:

Semináre:

Terénne cvičenia:

Individuálne prednášky:

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

Príloha E

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					Vojtech Nádaždy	1
					Martin Plesch	1
					Peter Šiffalovič	1
Fínsko	Andrej Herzáň	4			Matúš Balogh	8
					Monika Bírová	5
					Monika Bírová	16
					Andrej Herzáň	8
					Vladislav Matoušek	8
					Andrej Špaček	16
					Martin Venhart	5
					Martin Venhart	16
					Sebastian Vielhauer	8
Francúzsko	Ladislav Šamaj	14			Adriana Annušová	5
					Ján Brndiar	6
					Matej Jergel	2
					Farnoush Salehtash	14
					Farnoush Salehtash	14
					Farnoush Salehtash	14
					Ivan Štich	6
					Ivan Štich	7
Japonsko					Naďa Mrkývková	7
					Peter Šiffalovič	7
					Peter Šiffalovič	7

Maďarsko					Peter Šiffalovič	2
Nemecko	Simon Mičky	4			Vladimír Held	8
	Peter Šiffalovič	4			Vladimír Held	8
					Vladimír Held	5
					Simon Mičky	6
					Simon Mičky	6
					Naďa Mrkývková	4
					Peter Nádaždy	14
					Peter Šiffalovič	4
Poľsko					Adriana Annušová	2
Rakúsko	Igor Maťko	5			Vladimír Held	2
	Igor Maťko	7			Naďa Mrkývková	1
					Naďa Mrkývková	2
					Naďa Mrkývková	2
					Martin Plesch	3
					Peter Šiffalovič	1
Slovinsko					Martin Plesch	3
Španielsko					Monika Bírová	7
Švajčiarsko	Andrej Herzáň	2			Erik Bartoš	14
					Stanislav Dubnička	15
					Andrej Liptaj	14
Taliansko	Vladimír Held	8				
	Simon Mičky	6				
	Naďa Mrkývková	8				
	Peter Nádaždy	10				
	Peter	6				

	Šiffalovič					
	Karol Végsö	10				
Turecko					Irena Gejdoš Janotová	3
					Dušan Janičkovič	3
					Peter Švec	3
					Peter Švec Jr.	3
USA					Vladimír Held	9
					Denis Kochan	14
					Simon Mičky	9
					Peter Šiffalovič	9
Počet vyslaní spolu	**13**	**88**			**52**	**358**

(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					B.C. Anna Kyritsi	92
					B.C. Nikolaos Konstantinidis	92
Poľsko					Ing. Adriana Lis	43
Ukrajina					Dr. Yulia Kukhazh	89
					Prof. Yurij Plevachuk	60
Počet prijatí spolu					**5**	**376**

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

Krajina	**Názov konferencie**	**Meno pracovníka**	**Počet dní**
Brazília	BWSP 2022	Denis Kochan	15
Česko	Konferencia 3KK	Martin Venhart	1
	WMTQT 2022	Mário Ziman	7
Francúzsko	IAP 2022	Natalia Salomé Möller	7
	IQFA - XIII	Djeylan Vincent Ceylan Aktas	6
	SSNET 2022	Monika Bírová	6
		Andrej Špaček	6
		Martin Venhart	6

Grécko	QISS 2022	Natalia Salomé Móller	6
Holandsko	NC-AFM 2022 conference	Ivan Štich	7
Chorvátsko	CEEC-PCMS1	Igor Maťko	7
	ECMetAC Days 2022	Marek Mihalkovič	4
Írsko	CRYO2022	Ivan Klbik	6
Kanada	QISS 2022 Conference	Michal Sedlák	6
	WATOC 2022	Ivan Štich	8
Nemecko	IAMP 2022	Denisa Lampášová	5
	QC 2022	Denisa Lampášová	6
		Ricardo Rivera Cardoso	6
	QFA 2022	Denisa Lampášová	6
	QMT 2022	Nidhin Sudarsanan Ragini	6
		Mário Ziman	6
Poľsko	Conference on Nuclear Physics	Martin Venhart	8
	NanoTech Poland 2022	Adriana Annušová	4
	SSI 2022	Natalia Salomé Móller	17
Rakúsko	OPQ 2022	Vladimír Held	5
		Naďa Mrkývková	5
	TQT 2022	Natalia Salomé Móller	5
Španielsko	ESCS 2022	Andrej Gendiar	14
	Euroschool 2022	Andrej Špaček	7
Švédsko	QIP22	David Davalos Gonzalez	8
		Seyed Arash Ghoreishi	8
		Nidhin Sudarsanan Ragini	13
USA	WIND 2022	Denis Kochan	10
Spolu	**26**	**33**	**237**

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

Skratky použité v tabuľke C:

BWSP 2022 - 20th Brazilian Workshop on Semiconductor Physics
CEEC-PCMS1 - 1st Central and Eastern European Conference on Physical Chemistry and Materials Science
Conference on Nuclear Physics - Conference on Nuclear Physics
CRYO2022 - The 59th Annual Meeting of the Society for Cryologiology
ECMetAC Days 2022 - ECMetAC Days 2022
ESCS 2022 - Entanglement in Strongly Correlated Systems
Euroschool 2022 - Euroschool on Exotic Beams 2022
IAMP 2022 - IAMP - EMS Summer School in Mathematical Physics 2022
IAP 2022 - IAP 2022 CONFERENCE When ? meets G
IQFA - XIII - GDR IQFA 13th Colloquium
Konferencia 3KK - Konferencia 3KK
NanoTech Poland 2022 - NanoTech Poland 2022
NC-AFM 2022 conference - The 23rd International Conference on Non-contact Atomic Force Microscopy
OPQ 2022 - 71. Annual Meeting of the Austrian Physical Society
QC 2022 - Bad Honnef Physics School on Quantum Computing
QFA 2022 - Quantum Future Academy
QIP22 - Quantum Information and Probability: from Foundations to Engineering
QISS 2022 - QISS@Lesbos
QISS 2022 Conference - QISS 2022 Conference at Western

QMT 2022 - Quantum Measurement Theory: Foundations and Applications
SSI 2022 - Sejny Summer Institute on Foundations of Physics
SSNET 2022 - Shapes and Symmetries in Nuclei
TQT 2022 - Time in Quantum Theory 2022
WATOC 2022 - WATOC 2022
WIND 2022 - WIND 2022
WMTQT 2022 - Workshop on Modern Trends in Quantum Theory

Príloha F

Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Mgr. Andrej Gendiar, PhD.		PB	Japan - history, culture, physics	https://indico.cern.ch/event/1160739/attachments/2445594/4313287/program_2022_v3.pdf	15.9.2022
Mgr. Andrej Gendiar, PhD.		PB	Matematická biológia	Mendlovo museum, Brno	11.11.2022
Mgr. Andrej Gendiar, PhD.		PB	Seminárny deň	ZŠ Fándliho, Pezinok	23.6.2022
Ing. Matej Jergel, DrSc.	Mgr. Peter Nádaždy PhD., Dr.rer.nat Peter Šiffalovč DrSc.	PB	predstavenie nového štvorodrazového rtg monochromátora, ktorý bol zaregistrovaný na ÚPV ako úžitkový vzor 5.10.2021 pod číslom 9351	relácia Veda a technika na RTVS2	12.2.2022
Mgr. Leevi Ilmari Leppäjärvi, PhD.		PB	Quantum game jam: a physicist's perspective	https://itch.io/jam/quantum-game-jam-2022	17.9.2022
Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.		PB	DOD 2021, prednáška, Gymnázium F. G. Lorcu	www.fu.sav.sk/dod	22.11.2022
Mgr. Daniel Nagaj, PhD.		IN	Blízka budúcnosť kvantových počítačov	https://www.youtube.com/watch?v=rN6WdbsvXTY	13.6.2022
Mgr. Daniel Nagaj, PhD.		IN	Kvantová zložitosť a simulácie	https://www.youtube.com/watch?v=4hVTXqJjYyU&feature=emb_logo&ab_channel=Centrumspolo%C4%8Dn%C3%BDch%C4%8Dinnost%C3%ADSAV	22.11.2022
Mgr. Daniel Nagaj, PhD.		TL	Záhady výpočtového sveta	https://www.quark.sk/zahady-vypoctoveho-sveta/	13.2.2022
Doc. RNDr. Martin Plesch, PhD.		RO	Fenomény – Schumanove interakcie	https://www.rtvs.sk/radio/archiv/11370/1906911	13.10.2022
Doc. RNDr. Martin Plesch, PhD.		TL	Revoluční změna v hokeji. Proč finále v Pekingu nerozhodne střela „golfákem“	https://www.seznamzpravy.cz/clanek/sport-olympiada-revolucni-zmena-v-hokeji-zacalo-to-naganem-v-hlavni-roli-uhlik-187832	11.2.2022
Doc. RNDr. Martin Plesch, PhD.	Daniel Nagaj, Samuel Kováčik	PB	Softecon 2022	www.softecon.sk	26.5.2022

Mgr. Nidhin Sudarsanan Ragini		iné	Quantum technologies summer school, co-organizer+tutor	FH Technikum Wien	6.8.2022
Mgr. Martin Venhart, PhD.		IN	.jednoducho veda: Nové cesty pre vedu na Slovensku	https://www.tyzden.sk/video/81314/jednoducho-veda-nove-cesty-pre-vedu-na-slovensku-/?ref=kat	2.2.2022
Mgr. Martin Venhart, PhD.		PB	Ako vznikli chemické prvky vo vesmíre	Spojená škola Pankuchova 6	28.9.2022
Mgr. Martin Venhart, PhD.		TV	Experiment IS521 v CERNe	Ranné správy RTVS - https://www.rtvs.sk/televizia/archiv/14026/308671#2309	17.2.2022
Mgr. Martin Venhart, PhD.		TL	Expert o Rusku: V konvenčnej oblasti bolo obrom na hlinených nohách, no v jadrových silách je svetová špička	Hospodárske noviny: https://hnonline.sk/slovensko/96037858-expert-o-rusku-v-konvencnej-oblasti-bolo-obrom-na-hlinenych-nohach-no-v-jadrovych-silach-je	26.8.2022
Mgr. Martin Venhart, PhD.		TL	Fyzik Venhart: Hrozby jadrovými zbraňami treba brať mimoriadne vážne Čítajte viac: https://tech.sme.sk/c/22880939/fyzik-venhart-jadrove-elekrarne-palivo-rusko-rozhovor.html	Denník Sme	9.4.2022
Mgr. Martin Venhart, PhD.		PB	Jadrové hrozby	Vedecká kaviareň Košice	26.10.2022
Mgr. Martin Venhart, PhD.		TL	Jadrový fyzik Venhart: Ešte stále je nevyhnutné používať jadrovú energiu	Denník Sme: https://mytrnava.sme.sk/c/22871606/jadrovy-fyzik-venhart-este-stale-je-nevyhnutne-pouzivat-jadrovu-energiu.html	30.3.2022
Mgr. Martin Venhart, PhD.		TL	Jadrový fyzik Venhart: Na Ukrajine hrozí skôr scenár ako z Fukušimy	Denník Sme: https://tech.sme.sk/c/22980563/jadrovy-fyzik-venhart-na-ukrajine-hrozi-skor-scenar-ako-z-fukusimy.html	9.8.2022
Mgr. Martin Venhart, PhD.		RO	K veci - Vyjadrenie k účasti SR v SÚJV Dubna	Rádio Slovensko: https://www.rtvs.sk/radio/archiv/1092/1764404	18.3.2022
Mgr. Martin Venhart, PhD.		RO	K veci: Prelomová jadrová fúzia	Rádio Slovensko: https://slovensko.rtvs.sk/rubriky/k-veci/311725/k-veci-prelomova-jadrova-fuzia	14.12.2022
Mgr. Martin Venhart, PhD.		RO	Martin Venhart sa venuje najmä jadrovej fyzike	Rádio Regina: https://reginazapad.rtvs.sk/clanky/ludia/2899	26.4.2022

				94/martin-venhart-sa-venuje-najma-jadrovej-fyzike	
Mgr. Martin Venhart, PhD.		IN	Nadačný Fond Nadácie ESET pre podporu vedy	https://islovak.sk/nadacny-fond-nadacie-eset-pre-podporu-vedy/	2022
Mgr. Martin Venhart, PhD.		PB	O pôvode uhlíka vo vesmíre	Veda pri víne, Leháro, Trnava	9.11.2022
Mgr. Martin Venhart, PhD.		PB	Rádioaktivita	Spojená škola Pankuchova 6	3.5.2022
Mgr. Martin Venhart, PhD.		TL	Rusko preplatilo našich vedcov: Pracujú v ústave jadrových výskumov. Je to neetické, kritizuje ich kolega	Hospodárske noviny: https://hnonline.sk/slovensko/96035807-rusko-preplatilo-nasich-vedcov-pracuju-v-ustave-jadrovych-vyskumov-je-to-neeticke-kritizuje	16.8.2022
Mgr. Martin Venhart, PhD.		IN	Slováci vo veľkom vykupujú jódové tabletky, ÚVZ upozorňuje na riziká. Jadroví fyzici vysvetľujú, čo nám hrozí a ako sa správať	https://refresher.sk/111096-Slovaci-vo-velkom-vykupuju-jodove-tabletky-UVZ-upozornuje-na-rizika-Jadrovi-fyzici-vysvetluju-co-nam-hrozi-a-ako-sa-sprava	28.2.2022
Mgr. Martin Venhart, PhD.		PB	Sólo pre technécium	Gymnázium Metodova, Bratislava	8.12.2022
Mgr. Martin Venhart, PhD.		IN	Špeciálny vedecký podcast SAV o jadrových hrozbách	https://akademiavied.podbean.com/e/specialny-podcast-sav-o-hrozbach-jadrovej-vojny-s-jadrovym-fyzikom-m-venhartom/	12.4.2022
Mgr. Martin Venhart, PhD.		IN	Uhlík: náhodný prvok?	https://www.aktuality.sk/clanok/DuLIzYV/uhlik-nahodny-prvok/	16.10.2022
Mgr. Martin Venhart, PhD.		TV	Útok na Záporožskú jadrovú elektráreň vyvolal paniku. Jadrový fyzik vysvetlil, čo sa stalo a aké sú riziká	TA3	4.3.2022
Mgr. Martin Venhart, PhD.		TL	Venhart: Svet momentálne nemá zelenšiu alternatívu ako je atómové jadro	Trend: https://www.trend.sk/technologie/venhart-svet-momentalne-nema-zelensiu-alternativu-ako-je-atomove-jadro	16.10.2022
Mgr. Martin Venhart, PhD.		RO	Z prvej ruky: Diskusia o energetickej kríze v SR	Rádio Slovensko: https://www.rtvs.sk/radio/program/1175/1807782	23.5.2022
Mgr. Martin Venhart, PhD.		RO	Z prvej ruky: Situácia v Záporožskej jadrovej elektrárni	Rádio Slovensko: https://www.rtvs.sk/radio/program/1175/1757616	7.3.2022
Mgr. Martin Venhart, PhD.	Thomas Brent	IN	Why countries in central Europe trail	https://sciencebusiness	7.9.2022

			western neighbours in winning European Research Council grants	.net/widening/news/why-countries-central-europe-trail-western-neighbours-winning-european-research	
Mgr. Martin Venhart, PhD.	Zuzana Kovačič Hanzelová	IN	Fyzik Venhart: Špičkoví vedci sú na Slovensku napriek systému, nie vďaka nemu	https://www.youtube.com/watch?v=umQD8UCcydY	16.2.2022
Doc. Mgr. Mário Ziman, PhD.		PB	Kvantová teleportácia	Týždeň otvorených dverí FÚ SAV	2022
Doc. Mgr. Mário Ziman, PhD.		TL	Skrytá mágia kvantového sveta	https://www.aktuality.sk/clanok/amQtbDt/skryta-magia-kvantoveho-sveta/	13.11.2022
Doc. Mgr. Mário Ziman, PhD.		PB	Skutočného kvantového počítača sa možno nikdy nedočkáme, dnešné „kvantové počítadlá“ by mohli byť súčasťou superpočítačov	https://zive.aktuality.sk/clanok/ES53igH/skutocneho-kvantoveho-pocitaca-sa-mozno-nikdy-nedockame-dnesne-kvantove-pocitadla-by-mohli-byt-sucastou-super	16.11.2022
Doc. Mgr. Mário Ziman, PhD.		PB	Slovenskí vedci chcú vybudovať kvantový internet, idú vyvíjať unikátne detektory	zive.sk	27.1.2022
Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.	Denisa Lampášová	iné	Organizácia (týž)dňa otvorených dverí na FÚ SAV	www.fu.sav.sk/dod	1
prof. Ing. Štefan Luby, DrSc.		TL	Desaťročie s Petrom Pflieglom	Piešťanský denník	1
prof. Ing. Štefan Luby, DrSc.		TL	Hrboľatá cesta k Učenej spoločnosti Slkovenska	Slovenské pohľady, č. 11, 2022, s. 25 - 34.	1
prof. Ing. Štefan Luby, DrSc.		TL	Míľniky v nanosvete	Quark, č. 12, 2022, s. 7 - 11 a obálka	1
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prof. Ing. Štefan Luby, DrSc.		TL	Svet nie je malý ale je čoraz menší	Quark, 28, jún 2022, s. 56	1
prof. Ing. Štefan Luby, DrSc.	Martina Lubyová	TL	Aj Covid-19 musí rešpektovať fyziku	Naša nemocnica, XIV, č. 1, 2022, s. 18 - 19.	1
Doc. RNDr. Martin Plesch, PhD.		PB	Den otvorených dverí FÚ SAV 2022	www.fu.sav.sk	4
Doc. RNDr. Martin Plesch, PhD.	Dušan Kavický, František Kundracik a.i.	iné	Olympiáda mladých vedcov	www.ijso.sk	3

Doc. RNDr. Martin Plesch, PhD.	František Kundracik a.i.	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*