

Elektrotechnický ústav SAV, v. v. i.



**Výročná správa o činnosti a hospodárení
za rok 2024**

Bratislava
február 2025

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ČASŤ A

Elektrotechnický ústav SAV, v. v. i.

**Výročná správa o činnosti organizácie
za rok 2024**

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Elektrotechnický ústav SAV, v. v. i.

Riaditeľ: RNDr. Vladimír Cambel, DrSc.

1. zástupca riaditeľa: Ing. Milan Ťapajna, PhD.

2. zástupca riaditeľa: Ing. Ján Fedor, PhD

Vedecký tajomník: RNDr. Marianna Španková, PhD

Predseda správnej rady: RNDr. Vladimír Cambel, DrSc.

Predseda vedeckej rady: RNDr. Dagmar Gregušová, DrSc.

Predseda dozornej rady: prof., RNDr. Peter Samuely, DrSc.

Člen Snemu SAV: Ing. Milan Ťapajna, PhD.

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E-mail: elusav@savba.sk

Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

- **Oddelenie mikroelektroniky a senzoriky**
Vrbovská cesta 110, 921 01 Piešťany

Vedúci organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

- **Oddelenie mikroelektroniky a senzoriky**
Mgr. Bohumír Zaťko, PhD

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	113	79	34	21	7	108	82.42	64.11	10.25
Vedeckí pracovníci	67	54	13	14	4	62	50.19	49.19	2
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	19	13	6	6	3	19	9.23	8.92	1.15
Odborní pracovníci VŠ (ostatní zamestnanci ²)	6	2	4	0	0	6	5	0.5	1
Odborní pracovníci ÚS	17	9	8	1	0	17	14	5.5	6.1
Ostatní pracovníci	4	1	3	0	0	4	4	0	0

¹ odmeňovaní podľa 553/2003 Z.z., príloha č. 5

² odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2024 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

F – fyzický stav zamestnancov k 31.12.2024 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

P – celoročný priemerný prepočítaný počet zamestnancov

T – celoročný priemerný prepočítaný počet riešiteľov projektov

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

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2024)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	9	43	0	4	9	28	17
Ženy	2	11	0	1	2	6	5

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

Veková štruktúra (roky)	< 31		31-35		36-40		41-45		46-50		51-55		56-60		61-65		> 65	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Muži	8	6.2	10	7.7	7	6.3	7	7.0	7	7.0	3	3.0	4	4.0	2	1.6	20	11.5
Ženy	3	1.2	3	2.1	1	1.0	3	3.0	0	0.0	1	1.0	1	1.0	1	1.0	5	3.8

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2024

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	49.5	48.1	49.5
Ženy	52.4	47.1	47.4
Spolu	50.4	47.9	49.1

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

2. Vedecko-výskumná činnosť – projekty, výsledky

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2024

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty VEGA	11	1	-	-	158562	158562	-	3975
2. Projekty APVV	10	7	-	-	272416	270866	-	109266
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	12	0	-	-	141949	151949	-	-
4. Projekty SASPRO, MoRePro, IMPULZ	2	0	52509	52509	-	-	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	7	0	29053	29053	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2024

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2024	Bratislava		3
2. Projekty výziev EŠIF podané r. 2024	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2024

Tabuľka 2c Medzinárodné projekty riešené v roku 2024

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty Horizont 2020 a Horizont Európa	0	5	-	-	-	-	35940	197061
2. Projekty ERA.NET, ESA, JRP	1	0	-	-	23744	23744	-	-
3. Projekty COST	0	3	-	-	-	-	3500	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	4	-	-	-	-	30387	396939
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	1	0	-	1500	-	-	-	-
7. Bilaterálne projekty ostatné	3	0	18999	18999	737237	737237	-	-
8. Podpora MVTs z národných zdrojov (SAV, APVV a iné)	0	0	-	-	-	-	-	-
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 2024

Tabuľka 2d Počet projektov Horizont Európa v roku 2024

	A	B
Počet podaných projektov Horizont Európa		2

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

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

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

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2024

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: Sledovanie porúch v ultra-tenkých lítiom dopovaných vrstvách MoS₂

Riešitelia: J. Hrdá, M. Moško, I. Vojteková, L. Pribusová Slušná, P. Hutár, M. Precner, E. Dobročka, M. Španková, M. Hulman, Š. Chromik, Š., M. Sojková

Projekt: CEMEA ITMS 313021 T081, APVV-19-0365, APVV-21-0231, VEGA 2/0068/21, VEGA 2/0140/22

Molybdén disulfid (MoS₂) patrí medzi často študované materiály, pre jeho vrstevnatú štruktúru, výnimočné vlastnosti a použiteľnosť v elektronike, optoelektronike, či lítiových batériách. Vrstevnatá štruktúra MoS₂ umožňuje interkaláciu cudzích atómov do van der Waalsovského priestoru medzi vrstvami, čo môže ovplyvniť elektronickú štruktúru materiálu, ale aj elektrické či optické vlastnosti. V našej práci sme sa venovali interkalácii tenkých MoS₂ vrstiev lítiom, ktoré boli pripravené dvoma rôznymi technikami – teplotnou konverziou (TAC) a pulznou laserovou depozíciou (PLD). Ako zdroj lítia sme používali práškové Li₂S, ktoré sme spolu s práškovou sírou zahriali na vysokú teplotu. Lítium sa vďaka difúzii dostalo do priestoru medzi vrstvami MoS₂. Prítomnosť lítia vo vzorkách sme overili pomocou fotoelektrónovej spektroskopie. Výrazne štrukturálne zmeny, ani zmeny v optických vlastnostiach vrstiev sme po interkalácii nezaznamenali. Avšak elektrický odpor vzoriek s obsahom lítia výrazne narástol. Vďaka meraniu teplotnej závislosti odporu sme zistili, že transport nosičov v našich vrstvách najlepšie opisuje Efros-Shklovskiiho transport s premenlivou dĺžkou skoku. Takáto závislosť je typická pre poruchový polovodič. Keďže odpor vrstiev výrazne rástol so stúpajúcim obsahom lítia, môžeme konštatovať, že lítium zavádzalo do našich vrstiev nové poruchy, ktoré sa prejavili zvýšeným odporom a ak aj lítium dotovalo elektróny do MoS₂ vrstiev, tento efekt ostal skrytý v dôsledku prevládajúceho efektu porúch.

Publikácie:

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

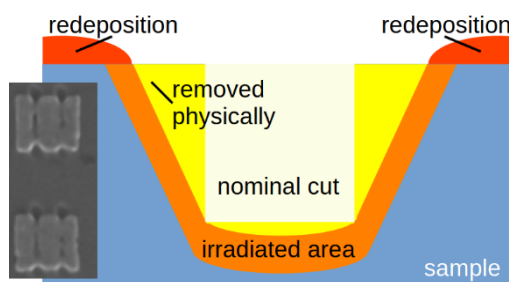
Názov: Magnetické nanoštruktúry s definovaným magnetickými stavmi pripravené pomocou fokusovaného iónového lúča

Riešitelia: S. Krylov, T. Kalmykova, T. Ščepka, V. Cambel, V.

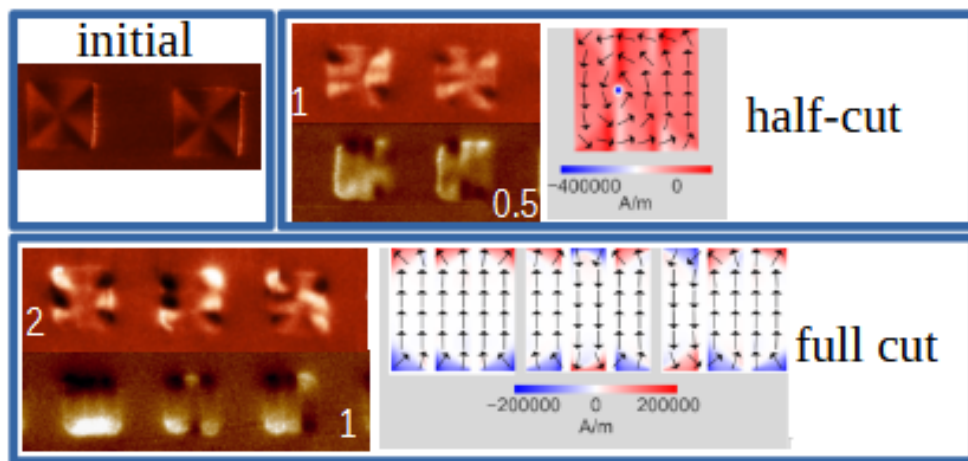
Projekt: Vega 2/0168/22, Plán obnovy No. 09I03-03-V01-00006, APVV 19-0311

Magnetické nanoštruktúry sú kľúčové pre moderné technológie vďaka ich potenciálu pre vysokú hustotu ukladania, rýchlu prevádzku a nízku spotrebu energie pri ukladaní a získavaní informácií. Ich výroba vyžaduje presnosť, pričom najpoužívanejšími metódami sú elektrónová lúčová litografia (EBL) a fokusovaný zväzok iónov (FIB).

FIB pracuje bombardovaním vzorky iónmi (Ga^+), aby odleptal materiál a vytvoril rezy. Kľúčové je minimalizovať dávku iónov, aby sa predišlo nadmernej implantácii Ga atómov, ktorá by mohla zhoršiť magnetické vlastnosti. Interakcie s iónovým lúčom však môžu spôsobiť miestne zahrievanie a redepozíciu atómov, čo vedie k nedokonalým rezom (obr. 1). Schéma ilustruje rôzne aspekty rezu (nie v mierke).



Na zmiernenie týchto problémov sme pridali vrstvu titánu medzi permalloy a substrát. Zaviedli sme aj inovatívne zníženie dávky iónov, pričom sme zohľadnili nemagnetický ožiarený priestor. „Magnetický“ rez zahŕňa nielen fyzicky odstránený materiál, ale aj nemagnetický ožiarený priestor.



Naša testovacia štruktúra obsahuje permalloyové štvorce s dvoma vertikálnymi rezmi. Magnetická izolácia, prechodom zo stavu kríža do jedného doménového stavu, naznačuje, že magnetický rez dosahuje alebo takmer dosahuje substrát. Obr. 2 zobrazuje vylepšený tvar rezu a takmer polovičnú dávku iónov potrebnú na prepnutie. Ukazuje počiatočný stav a štruktúru pred a po našich vylepšeniach, spolu s experimentálnymi dávkami a simuláciami, ktoré potvrdzujú dosiahnutie požadovaných výsledkov.

Publikácie:

KRYLOV, Sergei** – KALMYKOVA, Tetiana – ŠČEPKA, Tomáš – CAMBEL, Vladimír.
Magnetic nanostructures with defined magnetic states fabricated by focused ion beam. In Results in

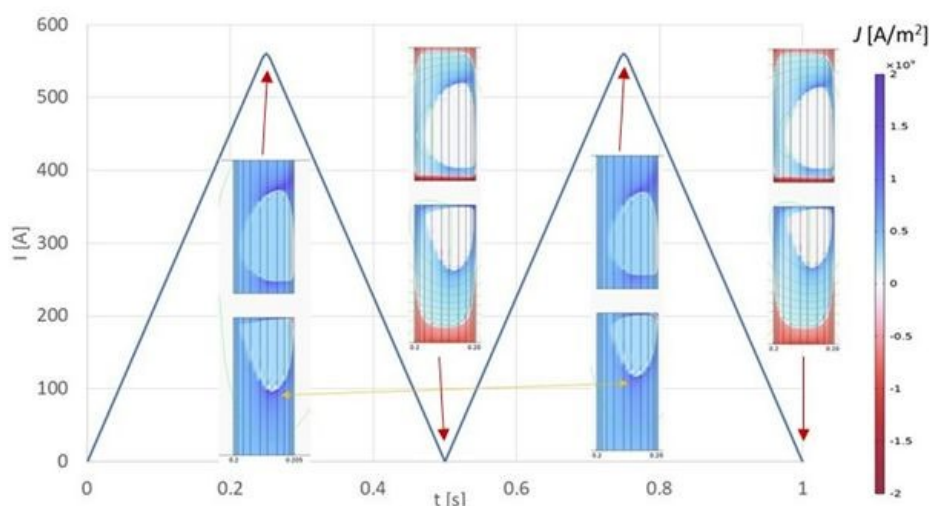
2.3.2. Výsledky aplikačného typu

Názov: Štúdia uskutočniteľnosti náhrady medeného vinutia elektromagnetu urýchľovača vodičom na báze vysokoteplotného supravodiča

Authori: F. Gömöry, M. Soloviov

Objednávateľ: GSI Darmstadt (Germany)

Elektromagnety používané v urýchľovači ťažkých iónov SIS-18 v GSI Darmstadt majú vinutia z kovových Cu drôtov. Pri vytváraní požadovaného magnetického poľa sa vodiče ohrievajú vďaka mechanizmu ohmických strát, čím významne prispievajú k spotrebe energie počas prevádzky. Túto časť prevádzkových nákladov v ostatnej dobe kriticky narástla, kvôli zvyšujúcim sa nákladom na elektrickú energiu. Uskutočnili sme teoretickú štúdiu zameranú na náhradu – pri dodržaní rovnakého počtu závitov a priebehu pulzu elektrického prúdu – Cu vinutia cievkou z vysokoteplotnej supravodivej pásky. V prvom kroku bol použitý zjednodušený semi-analytický prístup na identifikáciu vhodného rozsahu prevádzkových teplôt a predbežný odhad strát energie počas prúdovej rampy. Potom sa pre obmedzený súbor návrhov uskutočnil úplný teplotne závislý výpočet, so zahrnutím podrobnej charakterizácie transportnej schopnosti supravodivého materiálu. Zistili sme, že zjednodušený analytický prístup poskytuje správny návod na optimalizáciu usporiadania vinutia cievky.



Vypočítané rozloženia elektrického prúdu vo vinutí elektromagnetu počas trojuholníkového pulzu prúdu

Financie získané v roku 2024 sú 43 000 €.

Názov: Zmluva o spolupráci na výskumno-vývojovej úlohe, medzi Bizzcom s.r.o. a Elektrotechnický ústav SAV v.v.i., pre projekt IPCEI s názvom Memristor technology R&D for industry

Riešitelia: B. Hudec, S. Krylov, M. Precner, T. Ščepka, T. Izsák, M. Horský, N. K. Calvo, A. Seifertová

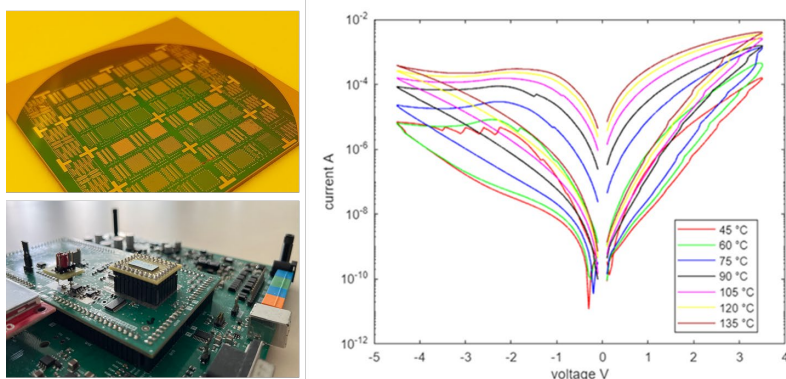
Zadávatel' výskumného kontraktu: Bizzcom s.r.o., Bučany, Slovensko

Bizzcom je riešiteľom IPCEI projektu (Important Projects of Common European Interest) s názvom „Memristor technology R&D for industry“. Projekt bol notifikovaný Európskou komisiou v júni 2023. Zmluva na financovanie projektu s MH SR nadobudla platnosť 1. decembra 2023. Plánom Zadávateľa je po ukončení tejto fázy projektu pokračovať v ďalších fázach projektu s cieľom naplniť všetky míľniky projektu a implementovať technológiu memristorov do industriálnych aplikácií.

Bizzcom realizuje výskumno-vývojové aktivity v spolupráci s priamymi aj nepriamymi partnermi projektu pre urýchlenie napredovania v problematike výroby memristorov a ich aplikácie do zložitejších štruktúr a obvodov pracujúcich s umelou inteligenciou a rôznymi logikami. Úlohou EIÚ SAV je zabezpečenie výroby funkčných memristorov, ich výroba vo forme priečných maticových štruktúr, ako aj charakterizácia, pričom EIÚ SAV zabezpečuje kvalitou výroby funkčnosť týchto prvkov, overenú následnou charakterizáciou v jednotlivých čiastkových úlohách.

Cieľom projektu ako celku je vývoj špičkovej AI technológie a riešení, ktoré majú obrovský potenciál priniesť výrazne zvýšenú efektivitu do umelej inteligencie a strojového učenia, čo má významný dopad na plnenie zelených a digitálnych cieľov Európskej únie.

Výroba memristorov a zložitejších priečných maticových štruktúr vyžaduje dlhodobé a praktické skúsenosti s výrobou mikroelektronických polovodičových prvkov na kremíkových substrátoch, konkrétne fyzikálnou depozíciou z pár, atomárnou depozíciou tenkých dielektrických vrstiev, reaktívnym iónovým leptaním, optickou litografiou a teplotným žihaním. Memristory je tiež potrebné charakterizovať elektrickými meraniami na potvrdenie funkčnosti a dosiahnutia elektrických výkonových parametrov.



Obr: Čip vyrobený EIÚ SAV s poliami analógových memristorov, nabondovaná vzorka v testovacej doske, a I-V charakteristiky memristorov v teplotnom rozsahu až do 135 °C.

Financie získané v roku 2024 sú 178 000 €.

2.3.3. Výsledky na báze medzinárodnej spolupráce

Názov: Nový softvér pre multi-fyzikálnu analýzu náhleho prechodu do normálneho stavu v magnetoch pre vysoké polia.

Autori: E. Pardo, A. Dadhich, A.K. Srivastava, A. Hussain

Projekt: Horizon2020: superEMFL, No. 951714, COST Hi-SCALE, No. CA19108

Elektromagnety z vysokoteplotných supravodičov (HTS) umožňujú dosiahnuť statické magnetické polia až 40 T. Dávajú tak možnosť merať kľúčové vlastnosti nových materiálov v mnohých oblastiach, od čistej energie po nové liečivá. Cieľom projektu superEMFL v rámci európskeho programu Horizon2020 je navrhnuť dva takéto magnety, generujúce pole 32 a 40 T. Konštrukcia magnetu je náročná kvôli vzájomnému pôsobeniu tieniacich prúdov, nárastu teploty a mechanického namáhania. Zohriatie spôsobené tieniacimi alebo radiálnymi prúdmi môže napríklad vyvolať elektroteplný quench (náhly prechod do normálneho stavu), ktorý ďalej spôsobuje tepelné namáhanie. Magnetická analýza preto vyžaduje multifyzikálne modelovanie a výpočty musia byť čo najrýchlejšie pre ich využitie pri návrhu magnetov. Hoci 3D modelovanie poskytuje úplný popis, je časovo veľmi náročné. V tejto práci navrhujeme rýchlu a presnú dvojrozmernú metódu pre multifyzikálne modelovanie v priereze magnetu, umožňujúcu analýzu elektromagneticko-tepelnomechanického správania sa magnetu, zohľadňujúcu tieniace prúdy. Táto metóda prepája náš elektromagnetický softvér (MEMEP [1]) s metódou, ktorú sme vyvinuli, založenou na konečných

diferenciách [3]. Tento elektrotepelný model je jednosmerne spojený s mechanickým elastickým modelom [4]. Študujeme najmä účinky samoohrievania počas zmeny prúdu a elektrotepelného quenchu v dôsledku poškodeného závit, ktorý sa náhle objaví pri konštantnom prúde v magnet. Výsledky porovnávame s modelmi používanými v ďalších výskumných skupinách zapojených do COST akcie Hi-SCALE. Naše výsledky ukazujú, že elektrotepelný quench sa šíri skôr elektromagneticky, zmenami v tieniacich prúdoch, než tepelnou difúziou. To spôsobuje rýchle šírenie sa quenchu, v niektorých prípadoch trvajúce len niekoľko milisekúnd. Okrem toho analyzujeme zvýšenie mechanického napätia v dôsledku tieniacich prúdov a lokálneho namáhania spôsobeného tepelnou rozťažnosťou počas elektrotepelného quenchu. Záverom možno povedať, že naša výpočtová metóda je vhodná pre multifyzikálny návrh magnetov s vysokým poľom.

Publikácie:

DADHICH, Anang** – GRILLI, F. – DENNIS, L. – VANDERHEYDEN, B. – GEUZAIN, C. – TRILLAUD, F. – SOTNIKOV, D. – SALMI, T. – HAJIRI, G. – BERGER, K. – BENKEL, T. – DOS SANTOS, G. – DOS SANTOS, B.M.O. – MARTINS, F.G.R. – HUSSAIN, Arif – PARDO, Enric. Electromagnetic-thermal modeling of high-temperature superconducting coils with homogenized method and different formulations: a benchmark. In Superconductor Science and Technology, 2024, vol. 37, no. 125006. (2023: 3.7 – IF, Q2 – JCR, 1.056 – SJR, Q1 – SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad8315> Typ: ADCA

DADHICH, Anang** – FAZILLEAU, P. – PARDO, Enric. A novel and fast electromagnetic and electrothermal software for quench analysis of high field magnets. In Superconductor Science and Technology, 2024, vol. 37, no. 095024. (2023: 3.7 – IF, Q2 – JCR, 1.056 – SJR, Q1 – SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad68d3> Typ: ADCA

PARDO, Enric** – FAZILLEAU, P. Fast and accurate electromagnetic modeling of non-insulated and metal-insulated REBCO magnets. In Superconductor Science and Technology, 2024, vol. 37, art. no. 035016. (2023: 3.7 – IF, Q2 – JCR, 1.056 – SJR, Q1 – SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad1c6f> Typ: ADCA

SRIVASTAVA, Arpit Kumar** – PARDO, Enric. Modelling the mechanics of 32 T REBCO superconductor magnet using numerical simulation. In Superconductor Science and Technology, 2024, vol. 37, no. 075014. (2023: 3.7 – IF, Q2 – JCR, 1.056 – SJR, Q1 – SJR). ISSN 0953-2048. Dostupné na: <https://doi.org/10.1088/1361-6668/ad4a34> Typ: ADCA

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2024/ doplňky z r. 2023
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	0 / 0
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	0 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	0 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	0 / 0
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	0 / 0
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	0 / 0
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	0 / 0
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	49 / 1
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNBN)	18 / 2
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	0 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	0 / 0
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	0 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	0 / 0
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	8 / 0
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	1 / 0
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	0
18. Ostatné vydané periodiká	0
19. Zostavovateľské práce knižného charakteru (FAI)	0 / 0
20. Preklady vedeckých a odborných textov (EAJ)	0 / 0
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	0 / 0
22. Recenzie v časopisoch a zborníkoch (EDI)	0 / 0

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

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu	Q1	Q2	Q3	Q4	Spolu
Podľa IF z r. 2023 (zdroj JCR) <i>Počet článkov / doplnky</i>	14 / 0	24 / 0	15 / 0	1 / 1	54 / 1
Podľa SJR z r. 2023 (zdroj Scimago) <i>Počet článkov / doplnky</i>	31 / 0	22 / 0	1 / 1	13 / 2	67 / 3

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2023/ doplnky z r. 2022
Citácie vo WOS (1.1, 2.1)	1450 / 30
Citácie v SCOPUS (1.2, 2.2)	174 / 18
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	1 / 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	47
Prednášky a vývesky na národných vedeckých podujatiach	17

2.6. Vyžiadané prednášky

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

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

1. Gömöry, F. and Solovyov, M.: Voltage signals on terminations of an HTS magnet modelled in T-A formulation. In: 9th Inter. Workshop on Numerical Modell. of High Temp. Supercondu. 2024. Bad Zurzach 2024.
2. Gucmann, F., Ľapajna, M., Hušeková, K., Dobročka, E., Rosová, A., Nádaždy, P., Eliáš, P., Egyenes, F., Hrubíšák, F., Chouhan, H., Keshtkar, J., Zheng, X., Pomeroy, J.W., Kuball, M., Xiao, X., Mao, Y., Meng, B., Ma, G., and Yuan, C.: Thermal properties of Ga₂O₃ thin films and devices prepared on sapphire and SiC substrates by liquid-injection MOCVD. In SPIE Photonics West, Oxide-Based Materials and Devices XV. San Francisco 2024.
3. Gucmann, F., Hušeková, K., Rosová, A., Dobročka, E., Egyenes, F., Hrubíšák, F., Keshtkar, J., Chouhan, H., Krettová, M., Eliáš, P., Nádaždy, P., Gregušová, D., Pohorelec, O., Kozak, A., and Ľapajna, M.: Gallium oxide for applications in electronics and optics. In 23rd Slovak-Czech-Polish Optical Conf. Wave and Quantum Aspects Contemp. Optics. Štrbské Pleso 2024.
4. Chromik, Š., Španková, M., Rosová, A., Dobročka, E., Gregor, M., Hrdá, J., Talacko, M., Cordier, Y., Pécz, B., and Giannazzo, F.: Certain challenges in the preparation and characterization of 2D MoS₂ films on wide bandgap semiconductor substrates. In: 14th Inter. Conf. Solid State Surfaces Interfaces Conf. - SSSI 2024. Smolenice.
5. Pardo, E. Hussain, A., Dadhich, A., Kováč, J., Kopera, L., Grilli, F., Berberich, E., Wolfsaedler, S., and Reis, T.: AC loss and stability in the REBCO stator of superconducting

motors for hydrogen-electric airplanes. In: Inter. Conf. Supercond. Novel Magnetism - ICSM 2024. Fethiye (Turecko) 2024.

6. Pardo, E., Dadhich, A., Srivastava, A.K., Fazilleau, P., Jerance, N., Varney, A., and Ball, S.: Multi-physics modeling of metal-insulated REBCO magnets with screening currents. In: 9th Inter. Workshop on Numerical Modell. of High Temp. Supercondu. 2024. Bad Zurzach 2024.
7. Denis, L., Pardo, E., Dadhich, A., Trillaud, F., Vanderheyden, B., and Geuzaine, C.: Numerical considerations for coupled magneto-thermal FE models of HTS tapes. In: 9th Inter. Workshop on Numerical Modell. of High Temp. Supercondu. 2024. Bad Zurzach 2024.
8. Skákalová, V., Kotrusz, P., Mustonen, K., Bui, A.T., Precner, M., Hutár, P., Hulman, M., Orendáč, M., and Gmitra, M.: Two-dimensional magnetic metal-iodides encapsulated in graphene. In: 9th Polish Conf. Graphene and other 2D Mater. Poznań 2024.
9. Skákalová, V., Kotrusz, P., Mustonen, K., Bui, A.T., Precner, M., Hutár, P., Orendáč, M., and Gmitra, M.: Two-dimensional magnets synthesized in graphene oxide under ambient conditions. In: Advanced Energy Materials - AEM 2024. London 2024.
10. Skákalová, V., Kotrusz, P., Mustonen, K., Bui, A.T., Precner, M., Hutár, P., Hulman, M., Orendáč, M., and Gmitra, M.: Novel two-dimensional materials synthesized in graphene oxide under ambient conditions. In: Central European Material Research Day. Linz 2024.
11. Tóbiš, J., Feilhauer, J., Šoltýs, J., Ščepka, T., Krylov, S., Cambel, V., and Mruczkiewicz, M.: Towards magnetically ordered artificial spin crystals. In: IEEE 14th Inter. Conf. Nanomater.: Appl. & Propert. IEEE NAP-2024. Riga 2024.
12. Varga, M.: Tailoring 3D diamond and 2D transition metal dichalcogenides for functional heterostructures. In: 8th Annual Inter. Nanotechnol. Conf. on Functional Nanomater. Nanodev. 2024 (NANOMAT2024). Vienna 2024.

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

1. Gučmann, F., Hušeková, K., Rosová, A., Dobročka, E., Egyenes, F., Hrubíšák, F., Keshtkar, J., Chouhan, H., Krettová, M., Eliáš, P., Nádaždy, P., Gregušová, D., Pohorelec, O., Kozak, A., and Ťapajna, M.: Gallium oxide for applications in electronics and optoelectronics. In ADEPT 2024. Nový Smokovec.
2. Ťapajna, M.: GaN heteroštruktúrne tranzistory pre mikrovlnné a výkonové aplikácie. In: 3. letná škola fyziky kond. látok. Lipt. Ján 2024.
3. Tóbiš, J.: Úvod do mikromagnetizmu. In: 3. letná škola fyziky kond. látok. Lipt. Ján 2024.

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

1. Gömöry, F., Solovyov, M., Frolek, L., Ries, R., Šouc, J., Hintze, C., Landvogt, S., Christensen, J.J., Bahl, C., Jorgensen, N.O., and Wulff, A.C.: AC losses in filamentized REBCO tapes. In: Lawrence Berkeley National Laboratory. Berkeley, USA 2024.
2. Gučmann, F.: Benefits and challenges of gallium oxide heteroepitaxy. In: GOOD seminar series, Strathclyde University (online) 2024.
3. Hudec, B.: In-sensor computing as a new paradigm for smart sensors. In: National Yang-Ming Chiao Tung University. NYCU, Hsinchu, Taiwan R.O.C. 2024.

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

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

a) na Slovensku

Názov vynálezu: Spôsob prípravy kanálov s potlačenou supravodivosťou v $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ mikropáske s využitím skenovania elektrónovým lúčom

Číslo patentu: 289265

Dátum udelenia: 10.10.2024

Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV, v.v.i., B.G. Negev Technologies and Applications Ltd.

Pôvodcovia vynálezu: Chromik Štefan, Talacko Marcel, Španková Marianna, G. Jung

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2024

a) na Slovensku

b) v iných krajinách ako prioritná prihláška

c) PCT

d) EP

Názov vynálezu: Method for depositing two-dimensional layered heterostructures on a substrate

Krajina: Slovensko

Číslo prihlášky: EP24195344.7

Dátum priority: 26.8.2024

Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV, v.v.i.

Pôvodcovia vynálezu: Skákalová Viera, Kotrusz Peter, Hulman Martin, K. Bernáth

Názov vynálezu: Stereolithography module for vacuum systems

Krajina: Slovensko

Číslo prihlášky: EP 50038-2023

Dátum priority: 2024

Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV, v.v.i., Bizzcom s.r.o.

Pôvodcovia vynálezu: Hudec Boris, Gucmann Filip, Ľapajna Milan, KURBEL, M. - ZELENAY, M.

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

2.7.3. Úžitkové vzory na Slovensku

a) prihlásené v roku 2024

b) udelené v roku 2024

Názov UV: Stereolitografický modul pre vákuové komory

Číslo UV: 9992

Dátum udelenia: 13.3.2024

Majiteľ / spolumajiteľ UV: Elektrotechnický ústav SAV, v.v.i., Bizzcom s.r.o.
Pôvodcovia UV: Hudec Boris, Gucmann Filip, Ťapajna Milan, M. Kurbel, M. Zelenay

2.7.4. Realizované vynálezy

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

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

Finančný prínos pre organizáciu SAV v roku 2024 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

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

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Gucmann Filip	VEGA	1
Haščík Štefan	VEGA	1
Moško Martin	VEGA	1
Sojková Michaela	VEGA	1
Šoltýs Ján	VEGA	1
Ťapajna Milan	KEGA	1
	Mladý FEI STU	1
Tóbbik Jaroslav	VEGA	2

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

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

Meno pracovníka	Ved. monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Blaho Michal	0	0	1	0	0	1	0
Gömöry Fedor	0	0	15	0	0	0	0
Gregušová Dagmar	0	0	12	0	0	1	0
Gucmann Filip	0	0	13	0	0	1	0
Hulman Martin	0	0	6	0	0	0	0
Chromik Štefan	0	0	3	0	0	0	0
Izsák Tibor	0	0	4	0	0	0	0

Kozak Andrii	0	0	2	0	0	0	0
Kuzmík Ján	0	0	5	0	0	0	0
Osvald Jozef	0	0	2	0	0	0	0
Pohorelec Ondrej	0	0	1	0	0	0	0
Rosová Alica	0	0	3	0	0	0	0
Sojková Michaela	0	0	13	0	0	0	0
Soloviov Mykola	0	0	7	0	0	0	0
Stoklas Roman	0	0	0	0	0	2	0
Španková Marianna	0	0	11	0	0	0	0
Ťapajna Milan	0	0	18	0	0	1	0
Varga Marian	0	0	1	0	0	0	1
Zaťko Bohumír	0	0	10	0	0	1	0
Spolu	0	0	127	0	0	7	1

2.11. Iné informácie k vedecko-výskumnej činnosti.

3. Medzinárodná vedecká spolupráca

3.1. Medzinárodné vedecké podujatia

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

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

3.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 3a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Gömöry Fedor	1	0	1
Kuzmík Ján	1	0	0
Novák Jozef	2	0	1
Skákalová Viera	0	0	1
Vanko Gabriel	0	0	1
Spolu	4	0	4

3.2. Členstvo a funkcie v medzinárodných orgánoch

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

doc. Ing. Fedor Gömöry, DrSc.

Applied Superconductivity Educational Foundation (ASEF) (funkcia: člen výboru)

Ing. Pavol Kováč, DrSc.

Academic Committee for International Congress on Advanced Materials (funkcia: člen)

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

Tabuľka 3b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Gucmann Filip	OPUS (Poľsko)	1
Ťapajna Milan	DFG (Nemecko)	1

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

V r. 2024 sme pokračovali v našej spolupráci so svetovým lídrom v oblasti polovodičov, s firmou Industrial Technology Research Institute, ITRI (Taiwan), na základe dokumentov podpísaných v r. 2023.

Prvý z nich, základný, bol podpísaný na Taiwane a hovorí o transfere know-how ohľadom testovania výkonových modulov a vzdelávaní v tejto oblasti ako aj o spolupráci na najbližšie 4 roky v oblasti výskumu a vývoja GaN a GaO technológií.

Druhý dokument, podpísaný v Bratislave, hovorí o konkrétnej finančnej podpore počas obdobia riešenia projektu. Celková výška podpory pre EIÚ SAV, v.v.i., je asi 2,7 mil. €. Na uvedenej spolupráci sa podieľa a zmluvu s ITRI podpísala aj STU v Bratislave. Toto je významný impulz na zlepšenie našej ďalšej spolupráce s STU a priemyselnými partnermi v oblasti návrhu, montáže a testovania výkonových modulov pre elektromobilitu (Smikron-Danfoss, ONSEMI, DELTA SK, Foxconn SK).

V samotnom r. 2024 sme rozbehli prerábanie laboratórií, v ktorých bude umiestnené nový tester a technológie zakúpené na základe uvedenej spolupráce. Zrealizovali sme všetky potrebné verejné obstarávania a zakúpili zariadenia v celkovej hodnote 2 mil. €, ukončenie obstarávania bude v r. 2025 dodávkou epitaxného zariadenia na GaO.

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

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

4. Aplikácia výsledkov výskumu v praxi

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

4.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov/účel kontraktového výskumu: Superconducting (HTS) version of HEBT magnet

Zadávateľ výskumného kontraktu: GSI Darmstadt (Germany)

Začiatok spolupráce: 2023

Ukončenie spolupráce: 2024

Finančný prínos pre organizáciu (€): 43000

Názov/účel kontraktového výskumu: Zmluva o spolupráci na výskumno-vývojovej úlohe

Zadávateľ výskumného kontraktu: Bizzcom s.r.o.

Začiatok spolupráce: 2024

Ukončenie spolupráce: trvá

Finančný prínos pre organizáciu (€): 178000

Názov/účel kontraktového výskumu: Participation of IEE to CRYOPROP

Zadávateľ výskumného kontraktu: AIRBUS UpNext (France)

Začiatok spolupráce: 2024

Ukončenie spolupráce: 2025

Finančný prínos pre organizáciu (€): 0

4.3. Iné formy aplikácie výsledkov výskumu a využitia odbornosti

5. Doktorandské štúdium a pedagogická činnosť

5.1. Údaje o doktorandskom štúdiu

Tabuľka 5a Počet doktorandov v roku 2024

Forma	Počet k 31.12.2024				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2024					
							Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí				ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	
Denná zo zdrojov SAV	5	2	0	1	4	1	1	0	1	0	0	1
Denná z iných zdrojov	2	0	0	0	4	1	2	1	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0	0	0
Spolu	7	2	0	1	8	2	3	1	1	0	0	1
Z toho zahraničných	4	1	0	0	3	1	1	0	1	0	0	1
Súhrn	9		1		10		4		1		1	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.
 Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v riadku „Súhrn“ vyjadruje celkový počet doktorandov (mužov a žien spolu), čiže je súčtom príslušných dvoch buniek z riadku „Spolu“. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2024 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.
 Pod predčasným ukončením rozumieme ukončenie bez obhajoby dizertačnej práce pričom doktorand neabsolvoval celú štandardnú dĺžku štúdia. Pod neúspešným ukončením rozumieme ukončenie bez úspešnej obhajoby dizertačnej práce, pričom študent absolvoval celú štandardnú dĺžku štúdia.

5.2. Zmena formy doktorandského štúdia

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

Pôvodná forma	Denná z prostriedkov SAV	Denná z prostriedkov SAV	Denná z iných zdrojov	Denná z iných zdrojov	Externá	Externá
Nová forma	Denná z iných zdrojov	Externá	Denná z prostriedkov SAV	Externá	Denná z prostriedkov SAV	Denná z iných zdrojov
Počet	2	0	0	0	0	0

5.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 5c Menný zoznam ukončených doktorandov v roku 2024 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Ing. Marek Búran	interné štúdium hradené z iných zdrojov	9 / 2019	2 / 2024		Ing. Pavol Kováč DrSc., Elektrotechnický ústav SAV, v. v. i.	
PhD. Sergei Krylov	interné štúdium hradené z prostriedkov SAV	9 / 2019	6 / 2024		RNDr. Vladimír Cambel DrSc., Elektrotechnický ústav SAV, v. v. i.	

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

Tabuľka 5d Menný zoznam ukončených doktorandov v roku 2024 úspešnou obhajobou v nadštandardnej dĺžke štúdia

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Mgr. Jana Hrdá	interné štúdium hradené z iných zdrojov	9 / 2020	8 / 2024		Mgr. Michaela Sojková PhD., Elektrotechnický ústav SAV, v. v. i.	
Ing. Martin Kucharovič	interné štúdium hradené z iných zdrojov	9 / 2020	8 / 2024		Mgr. Mykola Soloviov PhD., Elektrotechnický ústav SAV, v. v. i.	

5.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 5e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2024 (obhajoba leto 2024)	z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	z toho koľkí boli nejaký čas nezamestnaní
4	4	0	0	0

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

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

5.6. Medzinárodné doktorandské štúdium

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

Cotutelle	Co-direction	Iné	Zahraníční doktorandi štátne občianstvo/počet
0	0	0	IRN/4, PAK/2, IND/1, RUS/1

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

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

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

Názov študijného odboru (ŠO)	Číslo ŠO	Názov doktorandského študijného programu	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
elektrotechnika	2675	Elektronika a fotonika	Fakulta elektrotechniky a informatiky STU
elektrotechnika	2675	Fyzikálne inžinierstvo	Fakulta elektrotechniky a informatiky STU
fyzika	1160	Fyzika kondenzovaných látok a akustika	Fakulta matematiky, fyziky a informatiky UK

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

Tabuľka 5h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnotu alebo vyšší kvalifikačný stupeň
RNDr. Vladimír Cambel, DrSc. (elektronika)	doc. Ing. Fedor Gömöry, DrSc. (Elektrotechnická fakulta ŽU)	Ing. Marek Búran, PhD. (IIb)
doc. RNDr. Edmund Dobročka, CSc. (fyzikálne inžinierstvo)	doc. Ing. Fedor Gömöry, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	Mgr. Jana Hrdá, PhD. (IIb)
doc. Ing. Fedor Gömöry, DrSc. (fyzikálne inžinierstvo)	doc. Ing. Jozef Novák, DrSc. (Fakulta elektrotechniky a informatiky STU)	Sergei Krylov, PhD. (IIb)
RNDr. Dagmar Gregušová, DrSc. (elektrotechnika)	Ing. Milan Ťapajna, PhD. (Fakulta elektrotechniky a informatiky STU)	Ing. Martin Kucharovič, PhD. (IIb)
RNDr. Dagmar Gregušová, DrSc. (elektronika)		Ing. Marek Búran, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
Dr. rer. nat. Martin Hulman (fyzika)		Mgr. Jana Hrdá, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
Ing. Ján Kuzmík, DrSc. (teoretická elektrotechnika)		Sergei Krylov, PhD. (PhD., Fakulta matematiky, fyziky a informatiky UK)
Ing. Ján Kuzmík, DrSc. (elektronika)		Ing. Martin Kucharovič, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
doc. RNDr. Martin Moško, DrSc. (fyzika kondenzovaných látok a akustika)		

doc. RNDr. Martin Moško, DrSc. (chemická fyzika)		
doc. RNDr. Martin Moško, DrSc. (teoretická elektrotechnika)		
doc. RNDr. Martin Moško, DrSc. (fyzikálne inžinierstvo)		
doc. Ing. Jozef Novák, DrSc. (elektronika)		
Mgr. Enric Pardo, PhD. (fyzikálne inžinierstvo)		
RNDr. Marianna Španková, PhD (elektrotechnika)		
Ing. Milan Ťapajna, PhD. (elektronika)		
Ing. Gabriel Vanko, PhD. (elektronika)		

5.8. Údaje o pedagogickej činnosti

Tabuľka 5i Prednášky a cvičenia vedené v roku 2024

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	3	0	10	0
Celkový počet hodín v r. 2024	13	0	145	0

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

Tabuľka 5j Aktivity pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	4
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	7
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	10
4.	Počet školených doktorandov (aj pre iné inštitúcie)	15
5.	Počet oponovaných dizertačných a habilitačných prác	1
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	1
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	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	0

5.9. Iné dôležité informácie k pedagogickej činnosti

- Ústav pozýva zahraničných ako aj domácich odborníkov, aby predstavili výsledky v rôznych oblastiach výskumu. V roku 2024 odzneli prednášky:
 - prof. Karol Kálna (Faculty Sci Engn., Swansea Univ., UK): Nanosheet Field-Effect Transistors For The Future Logic Architectures: Process Flow and Performance,
 - Marián Janík (Institute of Science and Technology Austria (ISTA), Vienna): Strong Charge-Photon Coupling in Quantum Dots by in situ Resistance Control of Granular Aluminium Superinductors,
 - Ing. Igora Lacík, DrSc. (Ústavu Polymérov SAV): Water-soluble polymers: synthesis and design of biomaterials.
- Dr. Martin Moško prednáškový kurz z Fyziky polovodičov a polovodičových súčiastok pre PhD študentov (od februára 2024, 13 prednášok)
- Ústav spolupracuje na výučbe predmetov Elektromagnetické prvky a systémy a Nanotechnológie na FEI STU a Praktikum z Fyziky kondenzovaných látok pre študentov FMFI UK (RNDr. D. Gregušová, DrSc., Ing. O. Pohorelec, PhD.)
- Ústav zamestnáva VŠ študentov formou formou Dohody o vykonaní práce. Ich práca často vyústi do prípravy semestrálnych, bakalárskych a diplomových prác. V r. 2024 ich bolo 21.
- V máji 2024 absolvovali niekoľkí študenti stredných škôl zo SPŠE K. Adlera , SPŠE Zochova na EIÚ SAV, v.v.i. pod vedením našich kolegov Ing. Ľ. Froleka, Ing. J. Kováča, PhD., Ing. M. Ťapajnu, PhD. a Ing. O. Pohorelca, PhD. odbornú prax stredoškôľakov.

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

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

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Fakulta elektrotechniky a informatiky STU

Oblasť spolupráce: Výchova študentov, spoločná príprava a riešenie projektov a aplikačných riešení

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 1969

Zhodnotenie: Výsledkom spolupráce sú spoločné projekty, publikácie a PhD študenti.

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

Oblasť spolupráce: Výchova študentov, spoločná príprava a riešenie projektov a aplikačný ch riešení

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 1992

Zhodnotenie: Výsledkom spolupráce sú spoločné projekty, publikácie a PhD študenti.

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

6.1.2. Spoločné pracoviská s inými organizáciami SAV

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

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

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

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

Názov projektu: Perspektívne detektory ionizujúceho žiarenia pre nepokryté energetické okno neutrónov

Agentúra: APVV

číslo projektu: 22-0382

Spolupracujúce inštitúcie: FEI STU

Koordinátor projektu: EIÚ SAV

Začiatok spolupráce: 2023

Koniec spolupráce: 2027

Zhodnotenie:

Názov projektu: Optimalizácia okrúhleho kábla z vysokoteplotného supravodiča pre pulzné magnetické polia

Agentúra: APVV

číslo projektu: 20-0056

Spolupracujúce inštitúcie: Materiálovotechnologická fakulta STU

Koordinátor projektu: Materiálovotechnologická fakulta STU

Začiatok spolupráce: 2021

Koniec spolupráce: 2025

Zhodnotenie:

Názov projektu: CERBERUS – Farebné centrá v diamante – korelácia medzi atómovou štruktúrou a optoelektronickými vlastnosťami

Agentúra: APVV

číslo projektu: 23-0361

Spolupracujúce inštitúcie: Materiálovotechnologická fakulta STU Trnava

Koordinátor projektu: EIÚ SAV

Začiatok spolupráce: 2024

Koniec spolupráce: 2027

Zhodnotenie:

Názov projektu: Topologicky netriviálne magnetické a supravodivé nanoštruktúry

Agentúra: APVV

číslo projektu: 20-0425

Spolupracujúce inštitúcie: Prírodovedecká fakulta, UPJŠ

Koordinátor projektu: Prírodovedecká fakulta, UPJŠ

Začiatok spolupráce: 2021

Koniec spolupráce: 2024

Zhodnotenie:

Názov projektu: Nanoelsen – Nanoštrukturované tenkovrstvové materiály vyznačujúce sa slabými väzbovými interakciami pre elektronické a senzorické aplikácie

Agentúra: APVV

číslo projektu: 21-0278

Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU

Koordinátor projektu: Ústav elektroniky a fotoniky FEI STU

Začiatok spolupráce: 2022

Koniec spolupráce: 2026

Zhodnotenie:

Názov projektu: NanoMemb-RF – Moderné nanomembránové heteroštruktúry na báze GaAs pre vysoko produktívne vysokofrekvenčné prvky

Agentúra: APVV

číslo projektu: 21-0365

Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU

Koordinátor projektu: Ústav elektroniky a fotoniky FEI STU

Začiatok spolupráce: 2022

Koniec spolupráce: 2025

Zhodnotenie:

Názov projektu: PEGANEL – p-GaN elektronika pre úsporu energie a post-CMOS obvody

Agentúra: APVV

číslo projektu: 21-0008

Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU

Koordinátor projektu: EIÚ SAV

Začiatok spolupráce: 2022

Koniec spolupráce: 2025

Zhodnotenie:

Názov projektu: Fotonické laboratórium na čipe: výskum a vývoj platformy plazmonického senzora pre okamžitú detekciu zložiek v roztokoch

Agentúra: APVV

číslo projektu: 20-0437

Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU

Koordinátor projektu: Ústav elektroniky a fotoniky FEI STU

Začiatok spolupráce: 2021

Koniec spolupráce: 2024

Zhodnotenie:

Názov projektu: Transit2D – Tranzistory na báze 2D kovových chalkogenidov pripravených teplom podporovanou konverziou

Agentúra: APVV

číslo projektu: 21-0231

Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU

Koordinátor projektu: EIÚ SAV

Začiatok spolupráce: 2022

Koniec spolupráce: 2026

Zhodnotenie:

Názov projektu: Moderné elektronické súčiastky na báze ultraširokopásmového polovodiča Ga₂O₃ pre budúce vysokonapäťové aplikácie

Agentúra: APVV

číslo projektu: 20-0220

Spolupracujúce inštitúcie: Ústav elektroniky a fotoniky FEI STU, Materiálovotechnologická fakulta STU

Koordinátor projektu: EIÚ SAV
Začiatok spolupráce: 2021
Koniec spolupráce: 2025
Zhodnotenie:

Názov projektu: Perspektívne detektory ionizujúceho žiarenia pre nepokryté energetické okno neutrónov

Agentúra: APVV

číslo projektu: 22-0382

Spolupracujúce inštitúcie: Ústav jadrového a fyzikálneho inžinierstva FEI STU

Koordinátor projektu: EIÚ SAV

Začiatok spolupráce: 2023

Koniec spolupráce: 2027

Zhodnotenie:

Názov projektu: Nanooptické sondy a senzory integrované na optickom vlákne

Agentúra: APVV

číslo projektu: 20-0264

Spolupracujúce inštitúcie: Žilinská univerzita v Žiline

Koordinátor projektu: Žilinská univerzita v Žiline

Začiatok spolupráce: 2021

Koniec spolupráce: 2024

Zhodnotenie:

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

7. Vedecko-organizačné a popularizačné aktivity

7.1. Vedecko-popularizačná činnosť

Tabuľka 7a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	1	tlač	0	TV	0
rozhlas	0	internet	0	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	5				

7.2. Vedecko-organizačná činnosť

Tabuľka 7b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov

7.3. Účasť na výstavách

7.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 7c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Spolu			

7.5. Členstvo v redakčných radách časopisov

doc. Ing. Fedor Gömöry, DrSc.

Cryogenics (funkcia: člen)

IEEE Transactions on Applied Superconductivity (funkcia: člen)

Superconductivity (funkcia: člen)

RNDr. Dagmar Gregušová, DrSc.

Electronic Materials - mdpi (funkcia: člen)

Ing. Štefan Chromik, DrSc.

ICRN Condensed Matter Physics (funkcia: člen)

Ing. Pavol Kováč, DrSc.

Superconductor Science and Technology (funkcia: člen)

doc. Ing. Jozef Novák, DrSc.

Journal of Electrical Engineering (funkcia: člen)

Material Science in Semiconductor Processing (funkcia: člen)

Ing. Jozef Osvald, DrSc.

Materials Science in Semiconductor Processing (funkcia: člen)

Mgr. Enric Pardo, PhD.

Scientific Reports (funkcia: člen)

Superconductor Science and Technology (funkcia: člen)

Ing. Milan Ťapajna, PhD.

Semiconductor Science and Technology (funkcia: člen)

Ing. Jaroslav Tóbiš, PhD.

Scientific Reports (funkcia: člen)

7.6. Činnosť v domácich vedeckých spoločnostiach

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

V roku 2024 sme sa rozhodli sprofesionalizovať náš postup pri informovaní o novinkách ústavu. Uzavreli sme zmluvu s externou pracovníčkou, ktorá nám v tejto činnosti bude pomáhať. V zmysle odporúčaní PSAV ide o Koordinátora popularizácie vedy. **Koordinátor bude hlavným kontaktným bodom pre Referát pre komunikáciu a médiá v oblasti popularizácie a naopak, referát bude priamou linkou pre koordinátora. Prostredníctvom promptnej, rýchlej a proaktívnej komunikácie si budú navzájom vymieňať „popularizačné“ informácie, od ktorých je závislá viditeľnosť inštitúcie vo vnútri, ale najmä navonok.** V oblasti informovania o patentoch bude pre koordinátora kontaktným bodom Kancelária pre transfer technológií (KTT).

Poslanie a náplň práce koordinátora:

- Zviditeľňovanie ústavu navonok – identifikácia a spracovanie zaujímavých tém, ktorými ústav „žije“, prezentácia osobností ústavu, priestorov, jedinečného technického vybavenia prostredníctvom Referátu pre komunikáciu a médiá a rôznymi komunikačnými kanálmi ústavu.
- Zviditeľňovanie ústavu vo vnútri inštitúcie – mal by mať prehľad o výskumoch iných ústavov a prepájal by navzájom vedcov SAV, spájaj ich do spoločných projektov, pomáhal spoluvytvárať spolupráce v rámci inštitúcie.
- Vyhľadávanie a komunikácia vo vnútri ústavu o výsledkoch s patentovým potenciálom a informovanie KTT ich ochrane.
- Koordinovanie popularizačných a prezentačných podujatí ústavu alebo účasti ústavu na výstavách, veľtrhoch a iných podujatiach organizovaných, alebo spoluorganizovaných SAV.
- Zastrešovanie komunikácie s médiami, spravovanie sociálnych sietí, webu a ich napĺňanie aktuálnym obsahom.

Uvedené zadania vykonáva koordinátor v spolupráci s tímom popularizátorov vedy na ústave.

V r. 2024 náš koordinátor rozbehol kompletne prepracovanie nášho webu a návrh informačnej tabule ústavu.

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

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

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

Meno pracovníka	Názov orgánu	Funkcia
doc. Ing. Fedor Gömöry, DrSc.	ad hoc komisia SKVH	člen
RNDr. Dagmar Gregušová, DrSc.	SKVH	predsedníčka komisií ad hoc
Ing. Ján Kuzmík, DrSc.	SKVH	člen
Mgr. Bohumír Zaťko, PhD	Komisia pre SUJV Dubna pri vláde SR	člen

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

Názov expertízy: člen pracovnej skupiny pre periodické hodnotenie študijných programov 2. stupňa (Elektronika a fotonika, Kozmické inžinierstvo) v študijnom odbore elektrotechnika

Adresát expertízy: FEI STU

Spracoval: Ing. Filip Gucmann, PhD.

Názov expertízy: člen pracovnej skupiny pre period. hodnotenie programu Bc štúdia Elektronika a nového programu Elektronické systémy a návrh čipov

Adresát expertízy: FEI STU

Spracoval: Ing. Filip Gucmann, PhD.

Názov expertízy: člen pracovnej skupiny pre period. hodnotenie programu PhD. štúdia Elektrotechnika

Adresát expertízy: FEI STU

Spracoval: Ing. Filip Gucmann, PhD.

Názov expertízy: člen pracovnej skupiny pre hodnotenie študijných programov

Adresát expertízy: FEI STU

Spracoval: Dr. rer. nat. Martin Hulman

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
Ing. Milan Ťapajna, PhD.	Grantová agentúra MŠ - APVV	Člen Rady pre technické vedy

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

EIÚ SAV, v.v.i. ako spoluzakladateľ združenia SK Chips. Novozaložené záujmové združenie SK Chips chce prispieť k rozvoju ekosystému polovodičových technológií na Slovensku.

Dňa 22.11.2024 prebehlo ustanovujúce zasadnutie záujmového združenia právnických osôb (ZZPO) pod názvom Slovenské centrum pre polovodiče alebo skrátené SK Chips. Zakladajúcimi členmi združenia sú Ministerstvo školstva, výskumu, vývoja a mládeže SR (MŠ, SR), Ministerstvo hospodárstva SR (MH SR), Slovenská technická univerzita v Bratislave, Elektrotechnický ústav SAV, v.v.i. a Zväz elektrotechnického priemyslu SR.

Cieľom združenia je prispieť k rozvoju ekosystému polovodičových technológií na Slovensku prostredníctvom koordinácie zainteresovaných aktérov komerčnej, verejnej a výskumnej sféry pri tvorbe štátnej politiky, stratégie, a legislatívy. Dôležitou súčasťou aktivít bude aj snaha informovať decíziu sféru a širokú verejnosť o prínosoch polovodičových technológií a o rozvoji medzinárodnej spolupráce s podobnými organizáciami v EÚ.

Na ustanovujúcom zasadnutí si združenie schválilo vnútorné stanovy a zvolilo si z nich vyplývajúcich zástupcov. V jednom z bodov informoval Ing. Michal Mičjan, PhD. o prvom úspechu združenia, ktoré sa úspešne uchádzalo o podporu projektu Slovenského kompetenčného centra pre polovodiče a back-end technológie vo výzve pre vytváranie kompetenčných centier vypísanej Chips JU v programe Digital Europe. Projekt, ktorý je zameraný na rozvoj ekosystému polovodičového priemyslu na Slovensku s dôrazom na púzdrenie polovodičových čipov získal v hodnotení maximálny počet, 15 bodov.

Sme presvedčení, že táto aktivita povedie k zintenzívneniu spolupráce medzi EIÚ SAV, v.v.i a STU

s relevantnými priemyselnými partnermi a priláka aj nové investície firiem do vedy na Slovensku.



9. Aktivity v orgánoch SAV

9.1. Členstvo vo Výbore Snemu SAV

9.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

9.3. Členstvo v komisiách SAV

RNDr. Vladimír Cambel, DrSc.

- Etická komisia SAV (člen)

doc. Ing. Fedor Gömöry, DrSc.

- Akreditačná komisia SAV (člen)
- Komisia pre stratégiu rozvoja SAV (člen)
- Porota pre udeľovanie Medzinárodnej ceny SAV (člen)
- Rada SAV pre vzdelávanie a doktorandské štúdium (člen)

RNDr. Dagmar Gregušová, DrSc.

- Komisia pre posudzovanie vedeckej kvalifikácie (predsedníčka)

9.4. Členstvo v orgánoch VEGA

RNDr. Dagmar Gregušová, DrSc.

- Komisia 5 pre elektrotechniku, automatizáciu a riadiace systémy a príbuzné odbory informačných a komunikačných technológií (podpredsedníčka)
- Rozšírené Predsedníctvo VEGA (člen)

Dr. rer. nat. Martin Hulman

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

Ing. Ján Kuzmík, DrSc.

- Komisia 5 pre elektrotechniku, automatizáciu a riadiace systémy a príbuzné odbory informačných a komunikačných technológií (člen)

Ing. Alica Rosová, CSc.

- Komisia pre strojárstvo a príbuzné odbory informačných a komunikačných technológií a materiálové inžinierstvo (člen)

Ing. Milan Ťapajna, PhD.

- Komisia pre elektrotechniku, automatizáciu a riadiace systémy a príbuzné odbory informačných a komunikačných technológií (člen)

Mgr. Bohumír Zaťko, PhD

- Komisia č. 5 pre elektrotechniku, automatizáciu a riadiace systémy a príbuzné odbory informačných a komunikačných technológií (člen)

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

10.1. Uplatňovanie princípov stratégie ľudských zdrojov HRS4R

EIÚ SAV, v.v.i. dodržiava pri náboe výskumných pracovníkov zásady ustanovené v Kódexe správania pre nábor výskumných pracovníkov, aby výberový proces bol transparentný a otvorený. Voľné pozície, ako sú PhD a postdoc pozície, inzeruje na rôznych platformách (napríklad Euraxess, profesia.sk) v slovenskom aj anglickom jazyku. Inzeráty obsahujú podrobný opis požadovaných znalostí a schopností, pracovných podmienok a možností kariérneho rozvoja. Výberový proces prebieha v niekoľkých kolách. Po prijatí žiadostí uchádzačov sa uskutočňuje predvýber. Kandidáti, ktorí postúpia do užšieho výberu, sú pozvaní na pohovor pred výberovou komisiou.

Postup pri zamestnávaní pracovníkov (postdoc pozície) sa riadi Smernicou, pričom zloženie prijímacej komisie určuje riaditeľ ústavu. V roku 2024 bola komisia vymenovaná 2x, pričom rozhodla o prijatí celkovo 4 postdocov a 2 inžinierskych pracovníkov.

Uved'te stručnú charakteristiku a hodnotenie aktivít v oblasti HRS4R.

Uved'te stručnú charakteristiku a hodnotenie aktivít v oblasti HRS4R.

10.2. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

Na Elektrotechnickom ústave SAV, v.v.i. je od 1. 12. 2021 zriadená Komisia pre rodové a etické otázky. Jej úlohou je zvyšovať povedomie o diverzite a rodovej rovnosti na pracovisku a zároveň riešiť konkrétne podnety pracovníkov a pracovníčok. V roku 2024 sa Komisia zaoberala jedným podnetom, pričom sa opierať aj o poradenstvo a komunikáciu s osobami poverenými touto problematikou na PSAV. Aj vďaka tejto komunikácii bol problém úspešne vyriešený.

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

10.2.1. Rodová skladba hlavných riešiteľov (vedúcich) projektov

Prípadný stručný komentár ako úvod (nepovinný).

Tabuľka 10a Rodová skladba hlavných riešiteľov domácich projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty VEGA	11	7	4	1	1	0
2. Projekty APVV	10	8	2	7	5	2
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	12	10	2	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.)	7	5	2	0	0	0

Tabuľka 10b Rodová skladba hlavných riešiteľov medzinárodných projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty Horizont 2020 a Horizont Európa	0	0	0	5	5	0
2. Projekty ERA.NET, ESA, JRP	1	1	0	0	0	0
3. Projekty COST	0	0	0	3	3	0
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	1	0	4	3	1

5. Projekty v rámci medzivládnych dohôd	0	0	0	0	0	0
6. Bilaterálne projekty MAD, Mobility, Open Mobility	1	1	0	0	0	0
7. Bilaterálne projekty ostatné	3	3	0	0	0	0
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	0	0	0	0
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	0	0	0	0
10. Iné projekty	0	0	0	0	0	0

10.2.2. Výskum zameraný na rodovú problematiku

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

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

Kolektívna zmluva na roky 2023-24 sa zmenila nasledovne:

V oblasti sociálnych a materiálnych potrieb sme pridali bod, že zamestnávateľ poskytne pracovné voľno na regeneráciu s náhradou mzdy v maximálnom rozsahu 5 dní v príslušnom kalendárnom roku všetkým administratívnym pracovníkom, technickým pracovníkom a pre obslužný personál.

V roku 2024 ústav preplácal športovú činnosť detí zamestnancov v zmysle platného zákona.

Uved'te stručné, základné informácie k problematike.

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

11.1. Správna rada - zloženie a základná informácia o činnosti

Na ústave neboli v roku 2024 žiadne organizačné zmeny.

11.2. Vedecká rada - zloženie a základná informácia o činnosti

Na ústave neboli v roku 2024 žiadne zmeny zakladacej listiny ani vnútorných predpisov organizácie.

11.3. Dozorná rada - zloženie a základná informácia o činnosti

Uved'te stručné, základné informácie k problematike.

11.4. Informácie o štrukturálnych a organizačných zmenách v organizácii

Uved'te stručné, základné informácie k problematike.

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

12. Činnosť knižnično-informačného pracoviska organizácie

12.1. Knižničný fond

Tabuľka 12a Knižničný fond

Knižničné jednotky spolu		2193
z toho	knihy a zviazané periodiká	2188
	audiovizuálne dokumenty	0
	elektronické dokumenty (vrátane digitálnych)	146
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	828
	Rukopisy, vzácne tlače	0
Počet titulov dochádzajúcich periodík		1
z toho zahraničné periodiká		0
Ročný prírastok knižničných jednotiek		1
v tom	kúpou	1
	darom	0
	výmenou	0
	bezodplatným prevodom	0
	náhradou	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		2193

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

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

12.2. Výpožičky a služby

Tabuľka 12b Výpožičky a služby

Výpožičky spolu (riadok 1)		0
v tom z r. 1	prezenčné výpožičky	
	absenčné výpožičky	
v tom z r. 1	odborná literatúra pre dospelých	
	výpožičky periodík	
MVS iným knižniciam		0
MVS z iných knižníc		0
MMVS z iných knižníc		0
Počet vypracovaných bibliografií		0

Počet vypracovaných rešerší	334

12.3. Používatelia

Tabuľka 12c Používatelia

Registrovaní používatelia	126
Návštevníci knižnice spolu (bez návštevníkov podujatí)	0

12.4. Iné údaje

Tabuľka 12d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	1
Náklady na nákup knižničného fondu v €	250

12.5. Iné informácie o knižničnej činnosti

13. Nadácie a fondy pri organizácii

14. Realizácia Koncepcie dlhodobého rozvoja a Akčného plánu organizácie

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

Medzinárodný panel EIÚ SAV, v.v.i. skonštatoval progress dosiahnutý ústavom v poslednom období.

Veľkú úlohu v tomto zohral náš Medzinárodný poradný zbor (Advisory Board – AB) a realizácia jeho odporúčaní v praxi.

14.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

EIÚ SAV v.v.i. postupuje v zmysle svojho akčného plánu, čo bolo vyzdvihnuté aj členmi P SAV.

14.3. Aktualizácia Akčného plánu organizácie v roku 2024

Akčný plán EIÚ SAV bude aktualizovaný na základe pripomienok nášho AB na začiatku r. 2025.

Akčný plán sme aktualizovali aj vzhľadom na podpísanú Výkonnostnú zmluvu s PSAV. Na základe tejto zmluvy budú novým spôsobom napočítavané odmeny za publikovanie – výška odmeny významne závisí od kvality publikácie, teda od kvartilu a impaktu časopisu, v ktorom vyšla.

15. Iné významné činnosti organizácie

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

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

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

Uved'te informácie a podnety v súlade s názvom kapitoly.

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

Vedecká rada EIÚ SAV, v.v.i. na zasadnutí dňa 22. januára 2025 prerokovala výročnú správu Elektrotechnického ústavu v.v.i. a konštatuje, že ústav dosiahol menej významné výsledky vo výskumnej činnosti. Dosiahol však významné výsledky v rámci medzinárodnej spolupráce ako aj v spolupráci s podnikateľskými subjektami, ako domácimi, tak aj zahraničnými.

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

Schválila vedecká rada organizácie SAV dňa 22.1.2024

RNDr. Dagmar Gregušová, DrSc.
predseda vedeckej rady

Výročnú správu o činnosti organizácie za rok 2024 vypracoval(i):

RNDr. Vladimír Cambel, DrSc., 02/ 5922 2552, 2555
PhDr. Anna Gömöryová, 0903 919 384

Bratislava, 3.2.2025

RNDr. Vladimír Cambel, DrSc.
riaditeľ organizácie

PRÍLOHY k časti A

Príloha A-1

Zoznam zamestnancov a doktorandov organizácie k 31.12.2024

Zoznam zamestnancov podľa štruktúry

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	RNDr. Vladimír Cambel, DrSc.	100	1.00
2.	Ing. Karol Fröhlich, DrSc.	20	0.20
3.	doc. Ing. Fedor Gömöry, DrSc.	100	1.00
4.	RNDr. Dagmar Gregušová, DrSc.	100	1.00
5.	Ing. Štefan Chromík, DrSc.	30	0.35
6.	Ing. Pavol Kováč, DrSc.	100	1.00
7.	Ing. Ján Kuzmík, DrSc.	100	1.00
8.	doc. RNDr. Martin Moško, DrSc.	40	0.40
9.	doc. Ing. Jozef Novák, DrSc.	60	0.60
10.	Ing. Jozef Osvald, DrSc.	20	0.20
11.	doc. Ing. Viera Skákalová, DrSc.	40	0.53
Samostatní vedeckí pracovníci			
1.	Ing. Michal Blaho, PhD.	100	0.84
2.	RNDr. Pavol Boháček, CSc.	20	0.30
3.	doc. RNDr. Edmund Dobročka, CSc.	80	0.80
4.	Ing. Ján Fedor, PhD	100	1.00
5.	Mgr. Juraj Feilhauer, PhD.	100	1.00
6.	Ing. Filip Guemann, PhD.	100	1.00
7.	RNDr. Štefan Haščík, PhD.	60	0.60
8.	Ing. Boris Hudec, PhD.	100	1.00
9.	Dr. rer. nat. Martin Hulman	100	1.00
10.	Ing. Tibor Izsák, PhD.	100	1.00
11.	Mgr. Peter Kotrusz, PhD.	100	1.00
12.	Mgr. Ján Kováč, PhD.	100	1.00
13.	Mgr. Andrii Kozak, PhD.	100	1.00
14.	RNDr. Michal Kučera, PhD	50	0.50
15.	Mgr. Agáta Laurenčíková, PhD.	100	0.00
16.	RNDr. Antónia Mošková, CSc.	60	0.60

17.	Dr. Michal Mruczkiewicz	30	0.25
18.	Mgr. Enric Pardo, PhD.	100	1.00
19.	Ing. Marián Precner, PhD.	100	1.00
20.	RNDr. Lenka Pribusová Slušná, PhD.	100	1.00
21.	Ing. Alica Rosová, CSc.	100	1.00
22.	Mgr. Eugen Seiler, PhD	100	1.00
23.	Mgr. Michaela Sojková, PhD.	100	1.00
24.	Mgr. Mykola Soloviov, PhD.	100	1.00
25.	Ing. Roman Stoklas, PhD.	100	1.00
26.	Ing. Ján Šoltýs, PhD	100	1.00
27.	Ing. Ján Šouc, CSc.	80	0.80
28.	RNDr. Marianna Španková, PhD	100	1.00
29.	Ing. Milan Ťapajna, PhD.	100	0.85
30.	Ing. Jaroslav Tóvik, PhD.	100	1.00
31.	Ing. Gabriel Vanko, PhD.	100	0.08
32.	Ing. Marian Varga, PhD.	100	1.00
33.	Ing. Zdenko Zápražný, PhD.	100	1.00
34.	Mgr. Bohumír Zat'ko, PhD	100	1.00
Vedeckí pracovníci			
1.	Ing. Marek Búran, PhD.	100	1.00
2.	MSc. Anang Dadhich, PhD.	100	1.00
3.	Mgr. Fridrich Egyenes, PhD.	100	0.65
4.	Ing. Jozef Fabian, CSc	100	1.00
5.	Ing. Norbert Gál, PhD.	100	0.00
6.	Mgr. Jana Hrdá, PhD.	100	1.00
7.	Ing. Ladislav Hrubčín, CSc.	20	0.30
8.	Mgr. Peter Hutár, PhD.	100	0.02
9.	Mgr. Marián Janík, PhD.	100	0.13
10.	RNDr. Tetiana Kalmykova, PhD.	100	1.00
11.	Iryna Kozak, PhD.	100	0.32
12.	Sergei Krylov, PhD.	100	0.83
13.	Ing. Martin Kucharovič, PhD.	100	0.40
14.	Ing. Tomáš Kujovič, PhD.	100	1.00
15.	Mgr. Peter Nádaždy, PhD.	50	0.50
16.	RNDr. Katarína Neilinger, PhD.	100	0.00

17.	Ing. Ondrej Pohorelec, PhD.	100	1.00
18.	Ing. Rastislav Ries, PhD.	100	0.50
19.	Ing. Michal Sobota, PhD.	100	0.25
20.	Ing. Tomáš Ščepka, PhD.	100	0.67
21.	Ing. Marcel Talacko, PhD.	100	1.00
22.	Mgr. Iuliia Vetrova, PhD.	100	1.00
Odborní pracovníci s VŠ vzděláním (výskumní a vývojoví zamestnanci)			
1.	Mgr.Phil. Faizan Ahmad	10	0.10
2.	Ing. Miriam Almášiová	85	0.22
3.	Ing. Michal Bennár	10	0.10
4.	Ing. Dušan Berek	100	1.00
5.	Mohammad Dehghan	10	0.09
6.	Ing. Peter Eliáš	100	1.00
7.	Ing. Lubomír Frolek	100	1.00
8.	Ing. Stanislav Hasenöhr	100	1.00
9.	Ing. Fedor Hrubíšák	100	0.40
10.	MSc. Arif Hussain	10	0.10
11.	Ing. Imrich Hušek	60	0.93
12.	RNDr. Kristína Hušeková	80	0.80
13.	MTech. Hemendra Chouhan	10	0.10
14.	MSc. Javad Keshtar	100	0.23
15.	Ing. Eva Kováčová	100	1.00
16.	Ing. Timea Ema Krajčovičová	10	0.03
17.	Ing. Miriam Krettová	10	0.03
18.	Ing. Tibor Melíšek	60	0.60
19.	Mgr. Michal Pecz	10	0.10
Odborní pracovníci s VŠ vzděláním (ostatní zamestnanci)			
1.	Mgr. Miroslava Blázyová	100	1.00
2.	PhDr. Anna Gömöryová	60	0.60
3.	Ing. Pavol Mozola	100	1.00
4.	Mgr. Vojtech Ogrodnik	40	0.40
5.	Mgr. Eva Stranovská	100	1.00
6.	Ing. Marta Zofcsáková	100	1.00
Odborní pracovníci ÚSV			
1.	Juraj Arbet	60	0.87

2.	Ján Dérer	20	0.33
3.	Michal Gerboc	100	1.00
4.	Iveta Grófova	100	1.00
5.	Martin Grujbár	100	1.00
6.	Ľubomír Kopera	80	0.80
7.	Peter Martiš	100	1.00
8.	Darina Ružičková	100	1.00
9.	Jana Ryzá	100	1.00
10.	Alena Seifertová	100	1.00
11.	Karol Schwarz	50	0.50
12.	Edita Sýkorová	50	0.50
13.	Edita Šimeková	100	1.00
14.	Stanislav Štefánik	100	1.00
15.	Juraj Tančár	50	0.50
16.	Iveta Tóthová	100	1.00
17.	Mária Zajíčková	50	0.50
Ostatní pracovníci			
1.	Jolana Častková	100	1.00
2.	Kvetoslava Hamburgová	100	1.00
3.	Iveta Putiková	100	1.00
4.	Róbert Vanek	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	doc. Ing. Jozef Novák, DrSc.	31.12.2024	0.60
Samostatní vedeckí pracovníci			
1.	Ing. Róbert Kúdela, CSc.	31.8.2024	0.13
2.	Dr. Michal Mruczkiewicz	31.12.2024	0.25
Vedeckí pracovníci			
1.	Ing. Ladislav Hrubčín, CSc.	31.12.2024	0.30
2.	Ing. Marek Mošať, PhD.	29.2.2024	0.17
3.	Dr. Arpit Kumar Srivastava	31.5.2024	0.42
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	MSc. Ghazaleh Esmaeili Dehaghi	30.4.2024	0.03

2.	Mgr. Martina Pakanová	31.8.2024	0.17
3.	MSc. Saviz Parsa Saeb	31.10.2024	0.00
4.	Mgr. Mária Sekáčová	30.6.2024	0.20
Odborní pracovníci ÚSV			
1.	Michal Vrbovský	29.2.2024	0.00

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostředků SAV			
1.	Mgr. Faizan Ahmad		
2.	Ing. Michal Bennár		
3.	Mohammad Dehghan		
4.	MSc. Arif Hussain		
5.	MTech. Hemendra Chouhan		
6.	Ing. Timea Ema Krajčovičová		
7.	Ing. Miriam Krettová		
8.	Mgr. Michal Pecz		
Interní doktorandi hrazení z iných zdrojov			
1.	Ing. Fedor Hrubíšák		
2.	MSc. Javad Keshtar		
Externí doktorandi			
<i>organizácia nemá externých doktorandov</i>			

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

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

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi

Príloha A-2

Projekty riešené v organizácii

Medzinárodné projekty

Programy: COST

1.) Magnetizmus a chiralita: točivé spiny, svetlo, a kryštalicke mriežky pre rýchlejšiu spintroniku (*Magnetism and chirality: twisting spins, light, and lattices for faster-than-ever spintronics*)

Zodpovedný riešiteľ:	Juraj Feilhauer
Trvanie projektu:	2.10.2024 / 1.10.2028
Evidenčné číslo projektu:	CA23136
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Stichting Radboud Universiteit Nijmegen
Počet spoluriešiteľských inštitúcií:	25 - Rakúsko: 1, Belgicko: 1, Česko: 2, Nemecko: 1, Dánsko: 1, Španielsko: 1, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 1, Chorvátsko: 1, Maďarsko: 1, Švajčiarsko: 1, Írsko: 1, Izrael: 1, Taliansko: 1, Holandsko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1, Srbsko: 1, Slovinsko: 1, Švédsko: 1, Turecko: 1
Čerpané financie:	-

2.) Európska sieť pre inovatívnu a pokročilú epitaxiu (*European Network for Innovative and Advanced Epitaxy*)

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	1.11.2021 / 30.10.2025
Evidenčné číslo projektu:	CA20116
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centre des Nanosciences et des Nanotechnologies, C2N-CNRS-UMR9001, Université Paris-Saclay, France
Počet spoluriešiteľských inštitúcií:	31 - Rakúsko: 1, Belgicko: 1, Bulharsko: 1, Bosna a Hercegovina: 1, Cyprus: 1, Česko: 1, Nemecko: 1, Dánsko: 1, Španielsko: 1, Estónsko: 1, Fínsko: 1, Veľká Británia: 1, Grécko: 1, Chorvátsko: 1, Maďarsko: 1, Švajčiarsko: 1, Írsko: 1, Izrael: 1, Taliansko: 1, Litva: 1, Luxembursko: 1, Lotyšsko: 1, Moldavsko: 1, Holandsko: 1, Nórsko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1, Srbsko: 1, Švédsko: 1, Turecko: 1
Čerpané financie:	SAV: 2000 €

Dosiahnuté výsledky:

Blaho, M., Gregušová, Eliáš, P., Pohorelec, O., Hasenöhrl, S., Haščík, Š., Guemann, F., Zápražný, Z. 5, Dobročka, E., Kyambaki, M., and Konstantinidis, G., Kuzmík J.: Growth and performance of n++ GaN cap layer for HEMTs applications, IWN 2024, Honolulu, November 4-8, 2024.

3.) Vysokoteplotná supravodivosť pre zrýchlenie prechodu k čistejšej energii (*High-Temperature Superconductivity for Accelerating the Energy Transition*)

Zodpovedný riešiteľ: Enric Pardo
Trvanie projektu: 8.10.2020 / 7.10.2024
Evidenčné číslo projektu: CA19108
Organizácia je koordinátorom projektu: nie
Koordinátor: NOVA.ID.FCT , Caparica
Počet spoluriešiteľských inštitúcií: 27 - Rakúsko: 1, Belgicko: 1, Bulharsko: 1, Bosna a Hercegovina: 1, Brazília: 1, Nemecko: 1, Dánsko: 1, Španielsko: 3, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 1, Izrael: 1, Taliansko: 1, Luxembursko: 1, Poľsko: 1, Portugalsko: 2, Rumunsko: 1, Srbsko: 2, Slovinsko: 1, Turecko: 2, Ukrajina: 1
Čerpané financie: SAV: 1500 €

Dosiahnuté výsledky:

Dadhich, A., Grilli, F., Dennis, L., Vanderheyden, B., Geuzaine, C., Trillaud, F., Sotnikov, D., Salmi, T., Hajiri, G., Berger, K., Benkel, T., dos Santos, G., Santos, B.M.O., Martins, F.G.R., Hussain, A., Pardo, E.: Electromagnetic-thermal modeling of high-temperature superconducting coils with homogenized method and different formulations: a benchmark, Supercond. Sci Technol. 37 (2024) 125006.

Programy: EUREKA

4.) Filamentované pásy z vysokoteplotného supravodiča pre použitie vo fúzii (*Filamentized high temperature superconductor tapes for fusion*)

Zodpovedný riešiteľ: Fedor Gömöry
Trvanie projektu: 1.10.2021 / 30.9.2024
Evidenčné číslo projektu: Eurostars 2 - E115264
Organizácia je koordinátorom projektu: nie
Koordinátor: SUBRA A/S
Počet spoluriešiteľských inštitúcií: 2 - Nemecko: 1, Dánsko: 1
Čerpané financie: MŠVVŠ SR: 34458 €

Dosiahnuté výsledky:

Gömöry, F., Solovyov, M., Šouc, J., Frolek, L., Kujovič, T., Seiler, E., Ries, R., Mošat, M., Winkler, T., Sugita, K., Dhallé, M., Krooshoop, H.J.G., Hintze, C., Troshyn, A., Prusseit, W., Nedergaard, L., Traberg, L., Christensen, J.J., Jorgensen, N.O., Bahl, C.R.H., and Wulff, A.C.: AC loss reduction in round HTS cables achieved by low-cost filamentization of tape conductors, IEEE Trans. Applied Supercond. 34 (2024) 5901605.

Programy: International Visegrad Fund (IVF)

5.) Stredoeurópsky kompetenčný klaster pre (ultra)širokopásmové polovodiče (*Central-European (Ultra)Wide Bandgap Expertise Cluster*)

Zodpovedný riešiteľ: Filip Gučmann
Trvanie projektu: 1.1.2024 / 1.6.2025
Evidenčné číslo projektu: 22320095
Organizácia je áno

koordinátorom projektu:

Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 3 - Maďarsko: 2, Poľsko: 1
Čerpané financie: -

Dosiahnuté výsledky:

Varga, M., Keshtkar, J., Hušeková, K., Sharma, D., Szabó, O. Aubrechtová Dragounová, K., Cora, I., Gucmann, F., Ťapajna, M., Kromka, A. Polycrystalline Ga₂O₃/diamond heterojunctions for next-generation deep-uv solar-blind photodetectors: a comparative study of growth approaches. In NANOCON 2024 : Abstracts. Different Authors. – Ostrava : TANGER Ltd., 2024, p. 80. ISBN 978-80-88365-20-4.

6.) Projektovanie šírky zakázaného pásu v nekonvenčných polovodičoch (*Band-gap engineering in unconventional semiconductors*)

Zodpovedný riešiteľ: Viera Skákalová
Trvanie projektu: 1.1.2022 / 31.12.2024
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: nie
Koordinátor: Dr. Ryo Kitaura
Počet spoluriešiteľských inštitúcií: 4 - Česko: 1, Maďarsko: 1, Japonsko: 1, Poľsko: 1
Čerpané financie: SAV: 24996 €

Programy: Bilaterálne - iné**7.) Topologicky netriviálne fázy vrstvených dichalkogenidov prechodných kovov** (*Topologically nontrivial phases of layered transition-metal dichalcogenides*)

Zodpovedný riešiteľ: Martin Hulman
Trvanie projektu: 1.1.2023 / 31.12.2024
Evidenčné číslo projektu: SASA-SAS-2022-01
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Srbsko: 1
Čerpané financie: -

8.) Vývoj vertikálnych kompozitov z dichalkogenidov prechodových kovov pre použitie v mikrosuperkondenzátoroch (*Vertically aligned two-dimensional transition metal dichalcogenide composites for micro-supercapacitors*)

Zodpovedný riešiteľ: Martin Hulman
Trvanie projektu: 1.1.2023 / 31.12.2025
Evidenčné číslo projektu: MSC_SAS_MOST 2022
Organizácia je koordinátorom projektu: áno

Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 18999 €

9.) Vybudovanie laboratória pre výskum spoľahlivosti výkonových modulov a spoločný výskum v oblasti GaN a Ga2O3 polovodičových výkonových súčiastok (*Establishment of reliability laboratory for power modules and joint reserch of GaN and Ga2O3 power devices*)

Zodpovedný riešiteľ: Milan Ťapajna
Trvanie projektu: 1.7.2023 / 30.6.2027
Evidenčné číslo projektu: SK-TW
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Taiwan: 1
Čerpané financie: ITRI: 737237 €

Programy: ERANET

10.) 3D tlač atomárnych vrstiev ako nová paradigma pre múdru senzoriku (*Atomic-layer 3D printing as a new paradigm for smart sensorics*)

Zodpovedný riešiteľ: Boris Hudec
Trvanie projektu: 1.6.2023 / 31.5.2026
Evidenčné číslo projektu: 10418
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 3 - Dánsko: 1, Slovensko: 1, Taiwan: 1
Čerpané financie: EU: 23744 €

Programy: Horizont 2020

11.) Uskutočňovanie aktivít popísaných v Ceste k fúzii počas Horizon2020 cestou spoločného programu členov konzorcia EUROfusion (*Implementation of activities described in the Roadmap to Fusion during Horizon2020 through a Joint programme of the EUROfusion consortium*)

Zodpovedný riešiteľ: Fedor Gömöry
Trvanie projektu: 1.1.2014 / 31.12.2025
Evidenčné číslo projektu: H2020-101052200
Organizácia je koordinátorom projektu: nie
Koordinátor: Max-Planck Gesellschaft zur Forderung der Wissenschaften E.V.
Počet spoluriešiteľských inštitúcií: 31 - Rakúsko: 1, Belgicko: 0, Bulharsko: 0, Cyprus: 0, Česko: 2, Nemecko: 3, Dánsko: 1, Španielsko: 2, Estónsko: 2, Fínsko: 1,

Čerpané financie:

Francúzsko: 1, Veľká Británia: 1, Grécko: 3, Chorvátsko: 1,
Maďarsko: 1, Švajčiarsko: 1, Írsko: 1, Taliansko: 1, Litva: 1,
Lotyšsko: 1, Holandsko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1,
Slovensko: 1, Slovinsko: 1, Švédsko: 1
EU: 564 €
Podpora medzinárodnej spolupráce z národných zdrojov: 3594 €

Dosiahnuté výsledky:

Gömöry, F. and Šouc, J.: Analysis of current and heat transfer in locations with reduced critical current in coated conductor tape, Supercond. Sci Technol. 37 (2024) 095017.

12.) Supravodivé magnety pre European Magnet Field Laboratory (*Superconducting magnets for the European Magnet Field Laboratory*)**Zodpovedný riešiteľ:**

Enric Pardo

Trvanie projektu:

1.1.2021 / 31.12.2024

Evidenčné číslo projektu:

H2020-951714

Organizácia je

nie

koordinátorom projektu:**Koordinátor:**

Centre National De La Recherche Scientifique CNRS

Počet spoluriešiteľských inštitúcií:

9 - Belgicko: 1, Nemecko: 3, Francúzsko: 1, Veľká Británia: 1,
Švajčiarsko: 1, Holandsko: 2

Čerpané financie:

EU: 50558 €

Podpora medzinárodnej spolupráce z národných zdrojov: 7188 €

Dosiahnuté výsledky:

Pardo, E. and Fazilleau, P.: Fast and accurate electromagnetic modeling of non-insulated and metal-insulated REBCO magnets, Supercond. Sci Technol. 37 (2024) 035016.

Dadhich, A., Fazilleau, P., and Pardo, E*: A novel and fast electromagnetic and electrothermal software for quench analysis of high field magnets, Supercond. Sci Technol. 37 (2024) 095024.

Srivastava, A.K. and Pardo, E.: Modelling the mechanics of 32 T REBCO superconductor magnet using numerical simulation, Supercond. Sci Technol. 37 (2024) 075014.

13.) Podpora inovácií v urýchľovačovom výskume a technológií (*Innovation Fostering in Accelerator Science and Technology*)**Zodpovedný riešiteľ:**

Eugen Seiler

Trvanie projektu:

1.5.2021 / 30.4.2025

Evidenčné číslo projektu:

H2020-101004730

Organizácia je

nie

koordinátorom projektu:**Koordinátor:**

European Organization For Nuclear Research - CERN

Počet spoluriešiteľských inštitúcií:

20 - Rakúsko: 1, Nemecko: 2, Španielsko: 2, Estónsko: 1,
Francúzsko: 4, Veľká Británia: 1, Maďarsko: 1, Švajčiarsko: 2,
Taliansko: 1, Lotyšsko: 1, Holandsko: 1, Poľsko: 1, Slovensko: 1,
Švédsko: 1

Čerpané financie:

EU: 8580 €

Podpora medzinárodnej spolupráce z národných zdrojov: 7188 €

Dosiahnuté výsledky:

Gömöry, F., Solovyov, M., Šouc, J., Frolek, L., Kujovič, T., Seiler, E., Ries, R., Mošat', M., Winkler, T., Sugita, K., Dhallé, M., Krooshoop, H.J.G., Hintze, C., Troshyn, A., Prusseit, W., Nedergaard, L., Traberg, L., Christensen, J.J., Jorgensen, N.O., Bahl, C.R.H., and Wulff, A.C.: AC loss reduction in round HTS cables achieved by low-cost filamentization of tape conductors, IEEE Trans. Applied Supercond. 34 (2024) 5901605.

Programy: Mobility

14.) Príprava a vlastnosti supravodivých a magnetických oxidových vrstiev pre moderné elektronické aplikácie (*Preparation and properties of superconducting and magnetic oxide films for modern electronic applications*)

Zodpovedný riešiteľ:	Štefan Chromik
Trvanie projektu:	1.1.2023 / 31.12.2024
Evidenčné číslo projektu:	PAS-SAS-2022-07
Organizácia je	áno
koordinátorom projektu:	
Koordinátor:	Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Poľsko: 1
Čerpané financie:	-
	Podpora medzinárodnej spolupráce z národných zdrojov: 1500 €

Dosiahnuté výsledky:

Bennár, M., Španková, M., Talacko, M., Gregor, M., Kronek, J., and Chromik, Š.: Enhancement of YBCO superconductivity by chemical surface treatment, J. Mater. Sci: Mater. Electron. 35 (2024) 1472. <https://doi.org/10.1007/s10854-024-13243-7>

Bennár, M., Chromik, Š., Španková, M., Talacko, M., Kronek, J., Chlpík, J., and Nádaždy, P.: Fundamental preparation of polylactic acid self-assembled monolayers for future spintronic applications. In 2024 IEEE 14th International Conference "Nanomaterials: Applications & Properties" (IEEE NAP-2024): Book of Abstracts, Riga, 2024, no. 08nmm-14. Dostupné na internete: https://ieeenap.org/data/IEEE_NAP_2024_Abstract_Book.pdf

Talacko, M., Chromik, Š., Španková, M., Dvurečenskij, A., Škrátek, M., and Cigáň, A.: Magnetic properties of YBCO thin film structure irradiated by low energy electron beam. In: Proc. 14th Inter. Conf. Solid State Surfaces Interfaces Conf. – SSSI 2024. Extend. Abstract Book. Ed. B. Brunner. Bratislava: Comenius Univ. 2024, p. 65. ISBN 978-80-223-5941-2.

Bennár, M., Chromik, Š., Talacko, M., Chlpík, J., Zápražný, Z., Španková, M.: Formation of a polylactic acid monolayer on gold for potential applications in spintronics. In: Proc. 14th Inter. Conf. Solid State Surfaces Interfaces Conf. – SSSI 2024. Extend. Abstract Book. Ed. B. Brunner. Bratislava: Comenius Univ. 2024, p. 18. ISBN 978-80-223-5941-2.

Zajcewa, I., Chrobak, M., Cieplak, Z., Chromik, Š., Talacko, M., Špankova, M., and Witkowski, B.: Deposition of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ thin films by pulsed laser deposition and characterization of their structural and transport properties. In: XIII Konf. Techniki Próźni Inst. Fizyki PAN. Warszawa 2024. Výveska.

Zajcewa, I., Abaloszewa, I., Chrobak, M., Chromik, Š., Talacko, M., Špankova, M., Gierłowski, P., and Cieplak, M.Z.: Percolative superconductivity in highly underdoped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ thin films,

poster presentation. In: XXI Nat. Supercond. Conf. (KKN21). Krakow 2024. Výveska.

Programy: Horizont Európa

15.) Supravodivé káble podporujúce prechod na udržateľnú energetiku (*Superconducting cables for sustainable energy transition*)

Zodpovedný riešiteľ: Fedor Gömöry
Trvanie projektu: 1.9.2022 / 28.2.2027
Evidenčné číslo projektu: Horizont Európa-101075602
Organizácia je koordinátorom projektu: nie
Koordinátor: SINTEF ENERGI AS, Trondheim
Počet spoluriešiteľských inštitúcií: 13 - Nemecko: 3, Francúzsko: 4, Írsko: 1, Taliansko: 4, Portugalsko: 1
Čerpané financie: EU: 73954 €
Podpora medzinárodnej spolupráce z národných zdrojov: 7188 €

Dosiahnuté výsledky:

Kováč, P., Búran, M., Kováč, J., Melišek, T., Hušek, I., Berek, D., Mauceri, P., Spina, T., and Bruzek, Ch.-E.: Electrical and mechanical limits of ex situ MgB₂ wires for cabling, Supercond. Sci Technol. 37 (2024) 065004.

Magnusson, N., Allais, A., Angeli, G., Bouvier, G., Bruzek, C.E., Candido, J., Creusot, C., Gammelsater, M., Garofalo, E., Gömöry, F., Hodge, E., Holé, S., Marian, A., Morandi, A., Reiser, W., and West, B.: SCARLET – a european effort to develop HTS and MgB₂ based MVDC cables, IEEE Trans. Applied Supercond. 34 (2024) 5400205.

16.) Heterogenná materiálová a technologická platforma pre novú doménu výkonovej nanoelektroniky (*Heterogeneous Material and Technological Platform for a New Domain of Power Nanoelectronics*)

Zodpovedný riešiteľ: Ján Kuzmík
Trvanie projektu: 1.12.2022 / 30.11.2025
Evidenčné číslo projektu: Horizont Európa-101091433
Organizácia je koordinátorom projektu: nie
Koordinátor: THALES
Počet spoluriešiteľských inštitúcií: 10 - Nemecko: 2, Španielsko: 1, Veľká Británia: 1, Grécko: 3, Taliansko: 1, Rumunsko: 1, Švédsko: 1
Čerpané financie: EU: 63405 €
Podpora medzinárodnej spolupráce z národných zdrojov: 10782 €

Dosiahnuté výsledky:

Blaho, M., Gregušová, Eliáš, P., Pohorelec, O., Hasenöhrl, S., Haščík, Š., Gucmann, F., Zápražný, Z. 5, Dobročka, E., Kyambaki, M., and Konstantinidis, G., Kuzmík J.: Growth and performance of n++ GaN cap layer for HEMTs applications, IWN 2024, Honolulu, November 4-8, 2024.

Kuzmík, J., Blaho, M., Gregušová, D., Eliáš, P., Pohorelec, O., Hasenöhrl, S., Haščík, Š., Gucmann, F., Zápražný, Z., Dobročka, E., Kyambaki, M., and Konstantinidis, G.: Growth and

performance of n++ GaN cap layer for HEMTs applications, Mater. Sci Semicond. Process. 185 (2025) 108959.

Programy: EDF

17.) Európska inovatívna pokročilá GaN mikrovlnná integrácia (*European Innovative GaN Advanced Microwave Integration*)

Zodpovedný riešiteľ: Ján Kuzmík
Trvanie projektu: 15.12.2022 / 14.12.2026
Evidenčné číslo projektu: 101102983
Organizácia je koordinátorom projektu: nie
Koordinátor: United Monolithic Semiconductors GmbH
Počet spoluriešiteľských inštitúcií: 15 - Belgicko: 1, Nemecko: 2, Španielsko: 3, Fínsko: 1, Francúzsko: 1, Grécko: 1, Chorvátsko: 1, Taliansko: 2, Litva: 1, Holandsko: 1, Švédsko: 1
Čerpané financie: EU: 34679 €
Podpora medzinárodnej spolupráce z národných zdrojov: 5391 €

Dosiahnuté výsledky:

Blaho, M., Gregušová, Eliáš, P., Pohorelec, O., Hasenöhrl, S., Haščík, Š., Gucmann, F., Zápražný, Z. 5, Dobročka, E., Kyambaki, M., and Konstantinidis, G., Kuzmík J.: Growth and performance of n++ GaN cap layer for HEMTs applications, IWN 2024, Honolulu, November 4-8, 2024.

Programy: Digital Europe Programme

18.) Slovenská kvantová komunikačná infraštruktúra (*Slovak Quantum Communication*)

Zodpovedný riešiteľ: Mário Ziman
Zodpovedný riešiteľ v organizácii SAV: Vladimír Cambel
Trvanie projektu: 1.1.2023 / 30.6.2025
Evidenčné číslo projektu: 101091548
Organizácia je koordinátorom projektu: nie
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 13 - Slovensko: 13
Čerpané financie: EU: 163901 €
Výskumná agentúra : 163901 €

Domáce projekty

Programy: VEGA

1.) Tepelná stabilizácia vysokoteplotných supravodivých pások pre použitie v obmedzovačoch skratových prúdov (*Thermal stabilization of high-temperature superconducting tapes for fault current limiters*)

Zodpovedný riešiteľ: Fedor Gömöry
Trvanie projektu: 1.1.2021 / 31.12.2024
Evidenčné číslo projektu: 1/0205/21
Organizácia je koordinátorom projektu: nie
Koordinátor: Materiálovotechnologická fakulta STU
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 3975 €

Dosiahnuté výsledky:

Hulačová, S., Pekarčíková, M., Skarba, M., Frolek, L., and Cuninková, E.: Comparison of AC loss reduction methods based on striation of Ag-stabilized REBCO tapes, IEEE Trans. Applied Supercond. 34 (2024) 5901205.

Cuninková, E., Frolek, L., Šouc, J., Ferenčík, F., Bónová, L., Száraz, Z., Skarba, M., Hulačová, S., Pekarčíková, M., and Šimon, Š.: Characterization of a novel TORT cable wound of stabilized striated REBCO tapes for reduced magnetization AC losses, Supercond. Sci Technol. 37 (2024) 075020.

Gömöry, F., Solovyov, M., Šouc, J., Frolek, L., Kujovič, T., Seiler, E., Ries, R., Mošat, M., Winkler, T., Sugita, K., Dhallé, M., Krooshoop, H.J.G., Hintze, C., Troshyn, A., Prusseit, W., Nedergaard, L., Traberg, L., Christensen, J.J., Jorgensen, N.O., Bahl, C.R.H., and Wulff, A.C.: AC loss reduction in round HTS cables achieved by low-cost filamentization of tape conductors, IEEE Trans. Applied Supercond. 34 (2024) 5901605.

Kucharovič, M., Gömöry, F., and Solovyov, M.: Demagnetizing the superconducting part of the magnetic cloak, IEEE Trans. Applied Supercond. 34 (2024) 8200404.

2.) Výskum a vývoj kontaktov pre nové materiály a súčiastky (*Contact engineering for advanced materials and devices*)

Zodpovedný riešiteľ: Dagmar Gregušová
Trvanie projektu: 1.1.2021 / 31.12.2024
Evidenčné číslo projektu: 2/0068/21
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 13410 €

Dosiahnuté výsledky:

Matúš, M., Stuchlíková, Ľ., Gregušová, D., Morales, M., Weis, M., Marek, J., and Ruterana, P.: Investigation of emission processes in InGaN/GaN quantum well structure. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 89-92. ISBN 978-80-554-2109-4.

Hrdá, J., Moško, M., Píš, I., Vojteková, T., Pribusová Slušná, L., Hutár, P., Precner, M., Dobročka, E., Španková, M., Hulman, M., Chromik, Š., Šiffalovič, P., Bondino, F., and Sojková, M.: Investigating structural, optical, and electron-transport properties of lithium intercalated few-layer MoS₂ films: Unraveling the influence of disorder, *Applied Phys. Lett.* 124 (2024) 123101.

Kuzmík, J., Stoklas, R., Hasenöhrl, S., Dobročka, E., Kučera, M., Eliáš, P., Gucmann, F., Gregušová, D., Haščík, Š., Kaleta, A., Chauvat, M.P., Kret, S., and Ruterana, P.: InN/InAlN heterostructures for new generation of fast electronics, *J. Applied Phys.* 135 (2024) 245701.

Gucmann, F., Meng, B., Chvála, A., Kúdela, R., Yuan, C., Ľapajna, M., Florovič, M., Egyenes, F., Eliáš, P., Hrubíša, F., Kováč, J.Jr., Fedor, J., and Gregušová, D.: Improved thermal performance of InGaAs/GaAs nanomembrane HEMTs transferred onto various substrates by epitaxial lift-off, *ACS Applied Electron. Mater.* 6 (2024) 5651–5660.

3.) Ultratenké homogénne povrchové vrstvy na štruktúrach komplexnej morfológie pre vylepšenie výkonu batérii využitím depozície po atómových vrstvách (*Ultra-thin conformal surface coatings of complex-morphology structures for improving battery performance using atomic layer deposition*)

Zodpovedný riešiteľ: Boris Hudec
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: 2/0162/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 12215 €

Dosiahnuté výsledky:

Sahoo, P.P, Gu?neren, A., Hudec, B., Mikolášek, M., Nada, A., Precnerová, M., Mičušík, M., Lenčes, Z., Nádaždy, P., and Fröhlich, K.: Stabilization of the solid-electrolyte-interphase layer and improvement of the performance of silicon?graphite anodes by nanometer-thick atomic-layer-deposited ZnO films, *ACS Applied Nano Mater.* 7 (2024) 18486–18498.

4.) Supravodivé spoje pre MgB₂ vinutia v perzistentnom móde (*Superconducting joints of MgB₂ wires for windings in persistent mode*)

Zodpovedný riešiteľ: Pavol Kováč
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: 2/0017/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0

Čerpané financie: VEGA: 14871 €

Dosiahnuté výsledky:

Búran, M. and Kováč, P.: Numerical modelling and measurement of the E-I characteristics of MgB₂ wire in sub-cooled water ice, Cryogenics 143 (2024) 103949.

Melišek, T., Berek, D., Búran, M., Bennár, M., and Kováč, P.: Joining of single-core ex-situ MgB₂/Fe wires by termination architecture, Cryogenics 140 (2024) 103857.

Hušek, I., Kováč, P., Melišek, T., Berek, D., and Kopera, L.: Effects of interface angle, added powder and applied deformation on the transport current and structure of scarf joints of single- and multi-core unreacted MgB₂ wires, Supercond. Sci Technol. 37 (2024) 37 075016.

5.) Kritické aspekty rastu polovodičových štruktúr pre novú generáciu III-N súčiastok
(Critical aspects of the growth for a new generation of III-N devices)

Zodpovedný riešiteľ: Ján Kuzmík
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: 2/0005/22
Organizácia je áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 17659 €

Dosiahnuté výsledky:

Kuzmík, J., Blaho, M., Gregušová, D., Eliáš, P., Pohorelec, O., Hasenöhrl, S., Haščík, Š., Gučmann, F., Zápražný, Z., Dobročka, E., Kyambaki, M., and Konstantinidis, G.: Growth and performance of n⁺⁺ GaN cap layer for HEMTs applications, Mater. Sci Semicond. Process. 185 (2025) 108959.

Kuzmík, J., Stoklas, R., Hasenöhrl, S., Dobročka, E., Kučera, M., Eliáš, P., Gučmann, F., Gregušová, D., Haščík, Š., Kaleta, A., Chauvat, M.P., Kret, S., and Ruterana, P.: InN/InAlN heterostructures for new generation of fast electronics, J. Applied Phys. 135 (2024) 245701.
Stoklas, R., Šichman, P., Hasenöhrl, S., Gregušová, D., Ľapajna, M., Hudec, B., Gučmann, F., Haščík, Š., Chvála, A., Šatka, A., Yuan, C., Mao, Y., and Kuzmík, J.: Vertical GaN MOS transistors with semi-insulating channel. In: GaN Marathon 2024. Verona 2024, pp. 221-222: ISBN 978 88 5495 7435.

Blaho, M., Gregušová, Eliáš, P., Pohorelec, O., Hasenöhrl, S., Haščík, Š., Gučmann, F., Zápražný, Z. 5, Dobročka, E., Kyambaki, M., and Konstantinidis, G., Kuzmík J.: Growth and performance of n⁺⁺ GaN cap layer for HEMTs applications, IWN 2024, Honolulu, November 4-8, 2024.
Kuzmík, J., Hasenöhrl, S., Stoklas, R., Dobročka, E., Rosová, A., Kučera, M., Eliáš, P., Gučmann, F., Gregušová, D., Haščík, Š., Kaleta, A., Chauvat, M.P., Kret, S., and Ruterana, P.: InN/InAlN Heterostructures for New Generation of Fast Electronics. In: GaN Marathon 2024, Verona 2024, pp. 71-72: ISBN 978 88 5495 7435.

Stoklas, R., Šichman, P., Hasenöhrl, S., Gregušová, D., Ľapajna, M., Hudec, B., Gučmann, F., Haščík, Š., Chvála, A., Šatka, A., Yuan, C., Mao, Y., and Kuzmík, J.: Vertical GaN MOS transistor with semi-insulating channel. In: Proc. 14th Inter. Conf. Solid State Surfaces Interfaces Conf. -

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

Zodpovedný riešiteľ: Lenka Pribusová Slušná
Trvanie projektu: 1.1.2023 / 31.12.2025
Evidenčné číslo projektu: 2/0046/23
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 4623 €

7.) Tepelná stabilita supravodivých cievok a filamentovaných REBCO pásov (*Thermal stability of superconducting coils and filamentized REBCO tapes*)

Zodpovedný riešiteľ: Eugen Seiler
Trvanie projektu: 1.1.2024 / 31.12.2026
Evidenčné číslo projektu: 2/0098/24
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 31334 €

Dosiahnuté výsledky:

Gömöry, F. and Šouc, J.: Analysis of current and heat transfer in locations with reduced critical current in coated conductor tape, Supercond. Sci Technol. 37 (2024) 095017.

Ries, R., Mošať, M., Gömöry, F., and Hintze, C.: Impact of anticlastic deformation on REBCO tapes wound in multilayer round cable, IEEE Trans. Applied Supercond. 34 (2024) 6900105.

Dadhich, A., Fazilleau, P., and Pardo, E.: A novel and fast electromagnetic and electrothermal software for quench analysis of high field magnets, Supercond. Sci Technol. 37 (2024) 095024.

Hussain, A., Dadhich, A., and Pardo, E.: Thermal quench modeling of REBCO racetrack coils under either alternating current or short-circuit voltage, Supercond. Sci Technol. 37 (2024) 115028.

Pardo, E. and Fazilleau, P.: Fast and accurate electromagnetic modeling of non-insulated and metal-insulated REBCO magnets, Supercond. Sci Technol. 37 (2024) 035016.

Srivastava, A.K. and Pardo, E.: Modelling the mechanics of 32 T REBCO superconductor magnet using numerical simulation, Supercond. Sci Technol. 37 (2024) 075014.

8.) Príprava, charakterizácia a dopovanie ultratenkých vrstiev dichalkogenidov prechodných

kovov (*Fabrication, characterization, and doping of ultra-thin layers of transition metal dichalcogenides*)

Zodpovedný riešiteľ: Michaela Sojková
Trvanie projektu: 1.1.2021 / 31.12.2024
Evidenčné číslo projektu: 2/0059/21
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 8092 €

Dosiahnuté výsledky:

Hrdá, J., Moško, M., Píš, I., Vojteková, T., Pribusová Slušná, L., Hutár, P., Precner, M., Dobročka, E., Španková, M., Hulman, M., Chromik, Š., Šiffalovič, P., Bondino, F., and Sojková, M.: Investigating structural, optical, and electron-transport properties of lithium intercalated few-layer MoS₂ films: Unraveling the influence of disorder, *Applied Phys. Lett.* 124 (2024) 123101.

9.) Štúdium dynamiky magnetického víru pre využitie v súčiastkach (*Study of magnetic vortex dynamics for device applications*)

Zodpovedný riešiteľ: Ján Šoltýs
Trvanie projektu: 1.1.2022 / 31.12.2024
Evidenčné číslo projektu: 2/0168/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 15933 €

Dosiahnuté výsledky:

Krylov, S., Kalmykova, T., Ščepka, T., and Cambel, V.: Magnetic nanostructures with defined magnetic states fabricated by focused ion beam, *Results in Phys.* 60 (2024) 107669.

10.) Modifikácia vlastností supravodivých, feromagnetických oxidových vrstiev a štruktúr pre modernú elektroniku (*Modification of properties of superconducting, ferromagnetic, oxide films and structures for advanced electronics*)

Zodpovedný riešiteľ: Marianna Španková
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: 2/0140/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 5816 €

Dosiahnuté výsledky:

Bennár, M., Španková, M., Talacko, M., Gregor, M., Kronek, J., and Chromik, Š.: Enhancement of

YBCO superconductivity by chemical surface treatment, J. Mater. Sci: Mater. Electron. 35 (2024) 1472.

Hrdá, J., Moško, M., Piš, I., Vojteková, T., Pribusová Slušná, L., Hutár, P., Precner, M., Dobročka, E., Španková, M., Hulman, M., Chromik, Š., Šiffalovič, P., Bondino, F., and Sojková, M.: Investigating structural, optical, and electron-transport properties of lithium intercalated few-layer MoS₂ films: Unraveling the influence of disorder, Applied Phys. Lett. 124 (2024) 123101.

11.) Elektronické a optoelektronické súčiastky na báze ultra-širokopásmového Ga₂O₃ polovodiča (*Electronic and optoelectronic devices based on ultra-wide bandgap Ga₂O₃ semiconductor*)

Zodpovedný riešiteľ: Milan Ťapajna
Trvanie projektu: 1.1.2021 / 31.12.2024
Evidenčné číslo projektu: 2/0100/21
Organizácia je áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 17792 €

Dosiahnuté výsledky:

Gucmann, F., Hušeková, K., Rosová, A., Dobročka, E., Egyenes, F., Hrubíšák, F., Keshtkar, J., Chouhan, H., Krettová, M., Eliáš, P., Nádaždy, P., Gregušová, D., Pohorelec, O., Kozak, A., and Ťapajna, M.: Gallium oxide for applications in electronics and optoelectronics. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 13-16. ISBN 978-80-554-2109-4.

Gucmann, F., Hušeková, K., Yuan, C., Xiao, X., Mao, Y., Meng, B., Ma, G., Rosová, A., Dobročka, E., Egyenes, F., Eliáš, P., and Ťapajna, M.: Phase-dependent phonon heat transport in thin-film gallium oxide. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 121-124. ISBN 978-80-554-2109-4.

Chouhan, H., Hušeková, K., Dobročka, E., Ťapajna, M., Keshtkar, J., Pohorelec, O., Hrubíšák, F., Mikolášek, M., and Gučmann, F.: Effect of off-cut sapphire substrate on the structural and optical properties of (-201) β -Ga₂O₃ grown by liquid-injection MOCVD. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 117-120-28. ISBN 978-80-554-2109-4.

Chouhan, H., Egyenes, F., Rosová, A., Hušeková, K., Dobročka, E., Nádaždy, P., Ťapajna, M., Xiao, X., Mao, Y., Meng, B., Ma, G., Yuan, C., and Gučmann, Filip.: Heteroepitaxial growth of (010) γ -Ga₂O₃ON sapphire substrates using γ -Ga₂O₃ template by liquid-injection MOCVD. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 73-76. ISBN 978-80-554-2109-4.

Gucmann, F., Ťapajna, M., Hušeková, K., Dobročka, E., Rosová, A., Nádaždy, P., Eliáš, P., Egyenes, F., Hrubíšák, F., Chouhan, H., Keshtkar, J., Zheng, X., Pomeroy, J.W., Kuball, M., Xiao, X., Mao, Y., Meng, B., Ma, G., and Yuan, C.: Thermal properties of Ga₂O₃ thin films and devices prepared on sapphire and SiC substrates by liquid-injection MOCVD, Proc. SPIE 12887 (2024)

1288705.

Xiao, X, Mao, Y., Meng, B., Ma, G., Hušeková, K., Egyenes, F., Rosová, A., Dobročka, E., Eliáš, P., Ľapajna, M., Gucmann, F., and Yuan, C.: Phase-dependent phonon heat transport in nanoscale gallium oxide thin films, *Small*, 2024, vol. 20, no. 2309961.

12.) Nové hybridné polovodičové štruktúry pre detekciu ionizujúceho žiarenia (*New hybrid semiconductor structures for ionizing radiation detection*)

Zodpovedný riešiteľ: Bohumír Zaťko
Trvanie projektu: 1.1.2024 / 31.12.2027
Evidenčné číslo projektu: 2/0063/24
Organizácia je áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 16817 €

Dosiahnuté výsledky:

Hrubčín L., Zaťko B., Kováčová E. Silicon radiation detectors with rectifier junction prepared by different technological procedures. In AIP Conference Proceedings. – AIP, 2024, vol. 3251, no. 080005.

Kotorová S., Šagátová A. Zaťko B.: Analysis of CdTe detectors via alpha and gamma spectrometry. In AIP Conference Proceedings. – AIP, 2024, vol. 3251, no. 080009.

Kurucová N., Šagátová A., Kováčová E., Zaťko B.: Influence of quasi-ohmic electrode on performance of semi-insulating GaAs detectors. In AIP Conference Proceedings : Applied Physics of Condensed Matter (APCOM 2023), 2024, vol. 3054, no. 050005.

Zaťko B., Šagátová A., Kováčová E.: Detection and spectrometric properties of the 4H-SiC Schottky detectors based on thick epitaxial layers. In AIP Conference Proceedings. – AIP, 2024, vol. 3251, no. 080006.

Programy: APVV

13.) Optimalizácia okrúhleho kábla z vysokoteplotného supravodiča pre pulzné magnetické polia (*Optimization of round high-temperature superconducting cable for pulse magnetic field*)

Zodpovedný riešiteľ: Fedor Gömöry
Trvanie projektu: 1.7.2021 / 30.6.2025
Evidenčné číslo projektu: 20-0056
Organizácia je nie
koordinátorom projektu:
Koordinátor: Materiálovotechnologická fakulta STU
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 22383 €

Dosiahnuté výsledky:

Ries, R., Mošať, M., Gömöry, F., and Hintze, C.: Impact of anticlastic deformation on REBCO tapes wound in multilayer round cable, IEEE Trans. Applied Supercond. 34 (2024) 6900105.

Hulačová, S., Pekarčíková, M., Skarba, M., Frolek, L., and Cuninková, E.: Comparison of AC loss reduction methods based on striation of Ag-stabilized REBCO tapes, IEEE Trans. Applied Supercond. 34 (2024) 5901205.

Cuninková, E., Frolek, L., Šouc, J., Ferenčík, F., Bónová, L., Száraz, Z., Skarba, M., Hulačová, S., Pekarčíková, M., and Šimon, Š.: Characterization of a novel TORT cable wound of stabilized striated REBCO tapes for reduced magnetization AC losses, Supercond. Sci Technol. 37 (2024) 075020.

Gömöry, F. and Šouc, J.: Analysis of current and heat transfer in locations with reduced critical current in coated conductor tape, Supercond. Sci Technol. 37 (2024) 095017.

Gömöry, F., Solovyov, M., Šouc, J., Frolek, L., Kujovič, T., Seiler, E., Ries, R., Mošať, M., Winkler, T., Sugita, K., Dhallé, M., Krooshoop, H.J.G., Hintze, C., Troshyn, A., Prusseit, W., Nedergaard, L., Traberg, L., Christensen, J.J., Jorgensen, N.O., Bahl, C.R.H., and Wulff, A.C.: AC loss reduction in round HTS cables achieved by low-cost filamentization of tape conductors, IEEE Trans. Applied Supercond. 34 (2024) 5901605.

14.) Moderné nanomembránové heteroštruktúry na báze GaAs pre vysoko produktívne vysokofrekvenčné prvky (*Advanced GaAs-based nanomembrane heterostructures for highperformance RF devices*)

Zodpovedný riešiteľ: Dagmar Gregušová
Trvanie projektu: 1.7.2022 / 30.6.2025
Evidenčné číslo projektu: APVV-21-0365
Organizácia je nie
koordinátorom projektu:
Koordinátor: STU Bratislava
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 32279 €

Dosiahnuté výsledky:

Gucmann, F., Meng, B., Chvála, A., Kúdela, R., Yuan, C., Ťapajna, M., Florovič, M., Egyenes, F., Eliáš, P., Hrubíša, F., Kováč, J.Jr., Fedor, J., and Gregušová, D.: Improved thermal performance of InGaAs/GaAs nanomembrane HEMTs transferred onto various substrates by epitaxial lift-off, ACS Applied Electron. Mater. 6 (2024) 5651–5660.

15.) Nanoštrukturované tenkovrstvové materiály vyznačujúce sa slabými väzbovými interakciami pre elektronické a senzorické aplikácie (*Nanostructured thin-film materials characterized by weak binding interactions for electronic and sensoric applications*)

Zodpovedný riešiteľ: Dagmar Gregušová
Trvanie projektu: 1.7.2022 / 30.6.2026
Evidenčné číslo projektu: APVV-21-0278
Organizácia je nie
koordinátorom projektu:

Koordinátor: STU Bratislava
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 24870 €

16.) Moderné elektronické súčiastky na báze ultraširokopásmového polovodiča Ga2O3 pre budúce vysokonapäťové aplikácie (*Modern electronic devices based on ultrawide bandgap semiconducting Ga2O3 for future high-voltage applications*)

Zodpovedný riešiteľ: Filip Gučmann
Trvanie projektu: 1.7.2021 / 30.6.2025
Evidenčné číslo projektu: 20-0220
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: APVV: 33025 €

Dosiahnuté výsledky:

Gučmann, F., Hušeková, K., Rosová, A., Dobročka, E., Egyenes, F., Hrubíšák, F., Keshtkar, J., Chouhan, H., Krettová, M., Eliáš, P., Nádaždy, P., Gregušová, D., Pohorelec, O., Kozak, A., and Ľapajna, M.: Gallium oxide for applications in electronics and optoelectronics. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 13-16. ISBN 978-80-554-2109-4.

Gučmann, F., Hušeková, K., Yuan, C., Xiao, X., Mao, Y., Meng, B., Ma, G., Rosová, A., Dobročka, E., Egyenes, F., Eliáš, P., and Ľapajna, M.: Phase-dependent phonon heat transport in thin-film gallium oxide. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 121-124. ISBN 978-80-554-2109-4.

Chouhan, H., Hušeková, K., Dobročka, E., Ľapajna, M., Keshtkar, J., Pohorelec, O., Hrubíšák, F., Mikolášek, M., and Gučmann, F.: Effect of off-cut sapphire substrate on the structural and optical properties of (-201) β -Ga2O3 grown by liquid-injection MOCVD. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 117-120-28. ISBN 978-80-554-2109-4.

Chouhan, H., Egyenes, F., Rosová, A., Hušeková, K., Dobročka, E., Nádaždy, P., Ľapajna, M., Xiao, X., Mao, Y., Meng, B., Ma, G., Yuan, C., and Gučmann, Filip.: Heteroepitaxial growth of (010) β -Ga2O3ON sapphire substrates using β -Ga2O3 template by liquid-injection MOCVD. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 73-76. ISBN 978-80-554-2109-4.

Xiao, X., Mao, Y., Meng, B., Ma, G., Hušeková, K., Egyenes, F., Rosová, A., Dobročka, E., Eliáš, P., Ľapajna, M., Gučmann, F., Yuan, C.: Phase-dependent phonon heat transport in nanoscale gallium oxide thin films. In Small, 2024, vol. 20, no. 2309961

Gučmann, F., Meng, B., Chvála, A., Kúdela, R., Yuan, C., Ľapajna, M., Florovič, M., Egyenes, F., Eliáš, P., Hrubíšák, F., Kováč, J.Jr., Fedor, J., and Gregušová, D.: Improved thermal performance of InGaAs/GaAs nanomembrane HEMTs transferred onto various substrates by epitaxial lift-off, ACS Applied Electron. Mater. 6 (2024) 5651–5660.

Gucmann, F., Ľapajna, M., Hušková, K., Dobročka, E., Rosová, A., Nádaždy, P., Eliáš, P., Egyenes, F., Hrubíšák, F., Chouhan, H., Keshtkar, J., Zheng, X., Pomeroy, J.W., Kuball, M., Xiao, X., Mao, Y., Meng, B., Ma, G., and Yuan, C.: Thermal properties of Ga₂O₃ thin films and devices prepared on sapphire and SiC substrates by liquid-injection MOCVD, Proc. SPIE 12887 (2024) 1288705.

Varga, M., Keshtkar, J., Hušková, K., Sharma, D., Szabó, O., Aubrechtová Dragounová, K., Cora, I., Gučmann, F., Ľapajna, M., Kromka, A. Polycrystalline Ga₂O₃/diamond heterojunctions for next-generation deep-uv solar-blind photodetectors: a comparative study of growth approaches. In NANOCON 2024 : Abstracts. Different Authors. – Ostrava : TANGER Ltd., 2024, p. 80. ISBN 978-80-88365-20-4.

17.) Optimalizovaný rast a transportné a optické vlastnosti tenkých vrstiev vybraných topologických polokovov (*Optimised growth and the transport and optical properties of thin layers of selected topological semimetals*)

Zodpovedný riešiteľ: Martin Hulman
Trvanie projektu: 1.7.2024 / 30.6.2027
Evidenčné číslo projektu: APVV-23-0564
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 14040 €

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

Zodpovedný riešiteľ: Štefan Chromik
Trvanie projektu: 1.7.2024 / 30.6.2028
Evidenčné číslo projektu: APVV-23-0202
Organizácia je koordinátorom projektu: nie
Koordinátor: Univerzita Komenského v Bratislave - Prírodovedecká fakulta
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: APVV: 3389 €

19.) Farebné centrá v diamante – korelácia medzi atómovou štruktúrou a optoelektronickými vlastnosťami (*Colour centres in diamond – correlation between atomic structure and optoelectronic properties*)

Zodpovedný riešiteľ: Tibor Izsák
Trvanie projektu: 1.9.2024 / 31.12.2027
Evidenčné číslo projektu: APVV-23-0361
Organizácia je koordinátorom projektu: áno

Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 13417 €

Dosiahnuté výsledky:

Kromka, A., Varga, M., Dragounova, K., Babcenko, O., Pfeifer, R., Flatae, A.M., Sledz, F., Akther, F., Agio, M., Potocky, S?., and Stehlík, S?.: High-yield production of SiV-doped nanodiamonds for spectroscopy and sensing applications, ACS Applied Nano Mater. 7 (2024) 24766-24777.

20.) p-GaN elektronika pre úsporu energie a post-CMOS obvody (*p-GaN electronics for energy savings and beyond-CMOS circuits*)

Zodpovedný riešiteľ: Ján Kuzmík
Trvanie projektu: 1.7.2022 / 30.6.2025
Evidenčné číslo projektu: APVV-21-0008
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 63982 €

Dosiahnuté výsledky:

Kuzmík, J., Stoklas, R., Hasenöhrl, S., Dobročka, E., Kučera, M., Eliáš, P., Gucmann, F., Gregušová, D., Haščík, Š., Kaleta, A., Chauvat, M.P., Kret, S., and Ruterana, P.: InN/InAlN heterostructures for new generation of fast electronics, J. Applied Phys. 135 (2024) 245701.

Kuzmík, J., Hasenöhrl, S., Stoklas, R., Dobročka, E., Rosová, A., Kučera, M., Eliáš, P., Gucmann, F., Gregušová, D., Haščík, Š., Kaleta, A., Chauvat, M.P., Kret, S., and Ruterana, P.: InN/InAlN Heterostructures for New Generation of Fast Electronics. In: GaN Marathon 2024, Verona 2024, pp. 71-72: ISBN 978 88 5495 7435.

21.) Robustné spinové vlny pre budúce magnonické aplikácie (*Robust spin waves for future magnonic applications*)

Zodpovedný riešiteľ: Michal Mruczkiewicz
Trvanie projektu: 1.7.2020 / 30.6.2024
Evidenčné číslo projektu: 19-0311
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 3406 €

22.) Fotonické laboratórium na čipe: výskum a vývoj platformy plazmonického senzora pre okamžitú detekciu zložiek v roztokoch (*Photonic Lab-on-a-Chip: investigation and development of plasmonic sensor platform for immediate detection of composites in solutions*)

Zodpovedný riešiteľ: Jozef Novák
Trvanie projektu: 1.7.2021 / 31.12.2024
Evidenčné číslo projektu: 20-0437
Organizácia je koordinátorom projektu: nie
Koordinátor: FEI STU Bratislava
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 5326 €

Dosiahnuté výsledky:

Novák, J., Rosová, A., Hasenöhrl, S., Lettrichová, I., and Pudiš, D.: Nanoprobes based on 3D gap nanocones prepared by integration on single mode fiber. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 25-28. ISBN 978-80-554-2109-4.

23.) Nanooptické sondy a senzory integrované na optickom vlákne (*Nano-optical probes and sensors integrated on optical fiber*)

Zodpovedný riešiteľ: Jozef Novák
Trvanie projektu: 1.8.2021 / 31.12.2024
Evidenčné číslo projektu: 20-0264
Organizácia je koordinátorom projektu: nie
Koordinátor: Žilinská univerzita v Žiline
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 5379 €

Dosiahnuté výsledky:

Novák, J., Rosová, A., Hasenöhrl, S., Lettrichová, I., and Pudiš, D.: Nanoprobes based on 3D gap nanocones prepared by integration on single mode fiber. In Proc. 12th Inter. Conf. Adv. Electron. Photon. Technol. – ADEPT 2024. Žilina: EDIS 2024, pp. 25-28. ISBN 978-80-554-2109-4.

24.) Štúdium 2D heteroštruktúr na báze TMD (*Study of TMD-based 2D heterostructures (TO-DO)*)

Zodpovedný riešiteľ: Michaela Sojková
Trvanie projektu: 1.7.2024 / 30.6.2026
Evidenčné číslo projektu: SK-AT-23-0021
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 774 €

25.) Topologicky netriviálne magnetické a supravodivé nanoštruktúry (*Topologically nontrivial magnetic and superconducting nanostructures*)

Zodpovedný riešiteľ: Ján Šoltýs
Trvanie projektu: 1.7.2021 / 31.12.2024

Evidenčné číslo projektu: 20-0425
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta, UPJŠ Košice
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 15640 €

26.) Vplyv aplikácie organických molekúl na vlastnosti perovskitových tenkovrstvových štruktúr (*Effect of the application of organic molecules on the properties of perovskite thin-film structures*)

Zodpovedný riešiteľ: Marianna Španková
Trvanie projektu: 1.7.2024 / 31.12.2027
Evidenčné číslo projektu: APVV-23-0238
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 13062 €

27.) Tranzistory na báze 2D kovových chalkogenidov pripravených teplom podporovanou konverziou (*Transistors based on 2D Metal Chalcogenides Grown via Thermally Assisted Conversion*)

Zodpovedný riešiteľ: Milan Ľapajna
Trvanie projektu: 1.7.2022 / 30.6.2026
Evidenčné číslo projektu: APVV-21-0231
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 44000 €

Dosiahnuté výsledky:

Hrdá, J., Moško, M., Píš, I., Vojteková, T., Pribusová Slušná, L., Hutár, P., Precner, M., Dobročka, E., Španková, M., Hulman, M., Chromik, Š., Šiffalovič, P., Bondino, F., and Sojková, M.: Investigating structural, optical, and electron-transport properties of lithium intercalated few-layer MoS₂ films: Unraveling the influence of disorder, *Applied Phys. Lett.* 124 (2024) 123101.

Ivashchenko, V.I., Onoprienko, A.A., Skrynskyi, P.L., Kozak, A.O., Vedel, V., Mazur, P.V., Sinelnichenko, A.K., Buranych, V.V., and Pogrebnjak, A.D.: Structure and properties of (TiZrHfNbTa)B₂ films and first-principles models for high entropy diborides, *Thin Solid Films* 803 (2024) 140478.

Smyrnova, K., Ivashchenko, V.I., Sahul, M., Čaplovič, Ľ., Skrynskyi, P., Kozak, A.O., Konarski, P., Koltunowicz, T.N., Galaszkievicz, P., Bondariev, V., Zukowski, P., Budzynski, P., Borba-Pogrebnjak, S., Kamiński, M., Bónová, L., Beresnev, V., and Pogrebnjak, A.: Microstructural,

electrical, and tribomechanical properties of Mo-W-C nanocomposite films, *Nanomater.* 14 (2024) 1061.

Smyrnova, K., Sahul, M., Haršáni, M., Beresnev, V., Truchlý, M., Čaplovič, L., Čaplovičová, M., Kusý, M., Kozak, A., Flock, D., Kassymbaev, A., and Pogrebnjak, A. Composite Materials with Nanoscale Multilayer Architecture Based on Cathodic-Arc Evaporated WN/NbN Coatings, *ACS Omega* 5 (2024) 17247-17265.

28.) Perspektívne detektory ionizujúceho žiarenia pre nepokryté energetické okno neutrónov (*Perspective ionizing radiation detectors for the uncovered neutron energy window*)

Zodpovedný riešiteľ: Bohumír Zaťko
Trvanie projektu: 1.7.2023 / 30.6.2027
Evidenčné číslo projektu: APVV-22-0382
Organizácia je áno
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských 1 - Slovensko: 1
inštitúcií:
Čerpané financie: APVV: 40602 €

Dosiahnuté výsledky:

Hrubčín, L., Zaťko, B., and Kováčová, E.: Silicon radiation detectors with rectifier junction prepared by different technological procedures, *AIP Conf. Proc.* 3251 (2024) 080005.

Šagátová, A., Kováčová, E., Benčurová, A., Konečníková, A., Gregušová, D., Nečas, V., and Zaťko, B.: The bias effect on alpha spectrometry of very thin semi-insulating GaAs detectors, *AIP Conf. Proc.* 3251 (2024) 080010.

Šagátová, A., Fülöp, M., Novák, A., Vrban, B., Lüley, J., Čerba, Š., Benkovský, I., and Zaťko, B.: Conversion of fast neutrons for neutron radiography with TPX2 detector, *Nukleonika* 69 (2024) 135-140.

Zaťko, B., Šagátová, A., and Kováčová, E.: Detection and spectrometric properties of the 4H-SiC Schottky detectors based on thick epitaxial layers, *AIP Conf. Proc.* 3251 (2024) 080006.

Kurucová, N., Šagátová, A., Granja, C., Hladík, D., and Zaťko, B.: Comparison of increased temperature on timepix3 detector with SiC vs Si sensor, *AIP Conf. Proc.* 3251 (2024) 070001.

Kotorová, S., Šagátová, A., and Zaťko, B.: Analysis of CdTe detectors via alpha and gamma spectrometry, *AIP Conf. Proc.* 3251 (2024) 080009.

Zaťko B., Varga M., Kováčová E., Šagátová A.: A study of particle detectors based on single crystal diamond substrate. In *Journal of Instrumentation*, 2024, vol. 19, no. C11016.

29.) Rastové a radiačné mechanizmy v diamantových hybridných detektoroch (*Growth and Radiation Mechanisms in Diamond Hybrid Detectors*)

Zodpovedný riešiteľ: Bohumír Zaťko
Trvanie projektu: 1.7.2022 / 30.6.2025

Evidenčné číslo projektu: SK-CZ-RD_21/0016
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Česko: 1
Čerpané financie: APVV: 44558 €

Dosiahnuté výsledky:

Hrubčín L., Zaťko B., Kováčová E. Silicon radiation detectors with rectifier junction prepared by different technological procedures. In AIP Conference Proceedings. – AIP, 2024, vol. 3251, no. 080005.

Kotorová S., Šagátová A. Zaťko B.: Analysis of CdTe detectors via alpha and gamma spectrometry. In AIP Conference Proceedings. – AIP, 2024, vol. 3251, no. 080009.

Kurucová N., Šagátová A., Kováčová E., Zaťko B.: Influence of quasi-ohmic electrode on performance of semi-insulating GaAs detectors. In AIP Conference Proceedings : Applied Physics of Condensed Matter (APCOM 2023), 2024, vol. 3054, no. 050005.

Zaťko B., Šagátová A., Kováčová E.: Detection and spectrometric properties of the 4H-SiC Schottky detectors based on thick epitaxial layers. In AIP Conference Proceedings. – AIP, 2024, vol. 3251, no. 080006.

Zaťko B., Varga M., Kováčová E., Šagátová A.: A study of particle detectors based on single crystal diamond substrate. In Journal of Instrumentation, 2024, vol. 19, no. C11016.

Programy: Iné projekty

30.) Výskum a vývoj pokročilého QCM-FET duálneho senzora reaktivovaného na báze diamantových vrstiev pre detekciu plynov a biomolekúl (*Research and development of advanced for defiction of gases and biomolecules*)

Zodpovedný riešiteľ: Tibor Izsák
Trvanie projektu: 1.1.2023 / 31.12.2024
Evidenčné číslo projektu: CAS-SAS-2022-9
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Česko: 1
Čerpané financie: SAV: 1500 €

Dosiahnuté výsledky:

Izsák, T., Varga, M., Kočí, M., Szabó, O., Aubrechtová Dragounová, K., Vanko, G., Gál, M., Korčeková, J., Hornychová, M., Poturnayová, A., Kromka, A., Diamond-coated quartz crystal microbalance sensors: challenges in high yield production and enhanced detection of ethanol and sars-cov-2 proteins, Materials & Design 248 (2024) 113474. (Q1, IF 7.6)

Kočí, M., Procházka, V., Szabó, O., Kulha, P., Kromka, A., and Husák, M.: Hybrid Gas sensor based on diamond-coated QCM with ink-jet printed IDT electrodes. In: 16th Inter. Conf. on

Programy: Vedecko-technické projekty

31.) Príprava a vlastnosti supravodivých a magnetických oxidových vrstiev pre moderné elektronické aplikácie (*Preparation and properties of superconducting and magnetic oxide films for modern electronic applications*)

Zodpovedný riešiteľ: Štefan Chromik
Trvanie projektu: 1.1.2023 / 31.12.2024
Evidenčné číslo projektu: SAV-PAV
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Poľsko: 1
Čerpané financie: SAV: 1500 €

Dosiahnuté výsledky:

Programy: DoktoGrant

32.) Štúdium spinových filtrov vytvorených pomocou aplikácie organických molekúl na perovskity (*Study of the influence induced by organic-based spin filters applied on perovskites*)

Zodpovedný riešiteľ: Michal Bennár
Trvanie projektu: 1.1.2024 / 31.12.2024
Evidenčné číslo projektu: APP473
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 1999 €

Dosiahnuté výsledky:

Bennár, M., Španková, M., Talacko, M., Gregor, M., Kronek, J., and Chromik, Š.: Enhancement of YBCO superconductivity by chemical surface treatment, J. Mater. Sci: Mater. Electron. 35 (2024) 1472.

Programy: MoRePro

33.) Heteroštruktúry TMD/diamant: Príprava, charakterizácia a aplikácia (*TMD/diamond heterostructures: Fabrication, characterization and applications*)

Zodpovedný riešiteľ: Marian Varga
Trvanie projektu: 1.8.2020 / 31.7.2024
Evidenčné číslo projektu: 19MRP0010
Organizácia je koordinátorom projektu: áno

Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 16534 €

Dosiahnuté výsledky:

Aguedo, J., Vojs, M., Vrška, M., Nemcovic, M., Pakanova, Z., Dragounova, K.A., Romanyuk, O., Kromka, A., Varga, M., Hatala, M., Marton, M., and Tkáč, J.: What are the key factors for the detection of peptides using mass spectrometry on boron-doped diamond surfaces?, *Nanomater.* 14 (2024) 1241.

Izsák, T., Varga, M., Kočí, M., Szabó, O., Aubrechtová Dragounová, K., Vanko, G., Gál, N., Korčeková, J., Hornychová, M., Poturnayová, A., and Kromka, A.: Diamond-coated quartz crystal microbalance sensors: Challenges in high yield production and enhanced detection of ethanol and sars-cov-2 proteins, *Materials & Design* 248 (2024), 113474.

Programy: IMPULZ

34.) Cenovo dostupné fotodetektory s heteroprechodom Ga₂O₃-diamant pre UV zobrazovanie necitlivé na slnečné svetlo (*Cost-effective Ga₂O₃-diamond heterojunction photodetectors for solar-blind UV imaging*)

Zodpovedný riešiteľ: Marian Varga
Trvanie projektu: 1.8.2024 / 30.7.2029
Evidenčné číslo projektu: IM-2023-87
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 35975 €

Programy: Plán obnovy EÚ

35.) Veľkoplošná výroba a charakterizácia 2D materiálov (*Large-scale production and characterization of 2D materials*)

Zodpovedný riešiteľ: Faizan Ahmad
Trvanie projektu: 1.9.2023 / 30.6.2026
Evidenčné číslo projektu: 09I03-03-V02-00044
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Výskumná agentúra: 15910 €

36.) Memristívna senzorika pre post-digitálnu elektroniku (*Memristive sensorics for post-digital electronics*)

Zodpovedný riešiteľ: Mohammad Dehghan
Trvanie projektu: 1.9.2023 / 30.6.2026
Evidenčné číslo projektu: 09I03-03-V02-00044
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Výskumná agentúra: 14237 €

37.) Supravodivé energetické káble (*Superconducting energy cables*)

Zodpovedný riešiteľ: Fedor Gömöry
Trvanie projektu: 1.4.2024 / 31.3.2026
Evidenčné číslo projektu: 09I01-03-V04 -00020
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Výskumná agentúra: 43367 €

38.) Smart senzory plynu a teploty s nízko-úrovňovým in-sensor spracovaním dát na báze neurónovej siete (*Smart gas and temperature sensors with neural-network-based low-level in-sensor data processing capability*)

Zodpovedný riešiteľ: Boris Hudec
Trvanie projektu: 1.1.2024 / 30.6.2026
Evidenčné číslo projektu: 09I05-03-V02-00058
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: -

39.) Štipendiá pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine (*Scholarships for excellent researchers threatened by the war conflict in Ukraine*)

Zodpovedný riešiteľ: Tetiana Kalmykova
Trvanie projektu: 1.4.2022 / 31.3.2025
Evidenčné číslo projektu: 09I03-03-V01-00006
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Výskumná agentúra: 37938 €

40.) Pokročilé nízkotrecie povlaky na báze ultratenkých 2D-TMDC pre extrémne podmienky
(*Lubrication challenge for ultra-thin advanced 2D-TMDC in extreme conditions*)

Zodpovedný riešiteľ: Andrii Kozak
Trvanie projektu: 1.7.2024 / 30.6.2026
Evidenčné číslo projektu: 09I03-03-V04-00709
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Výskumná agentúra: 14236 €

41.) InN: prielom v elektronike tuhej fázy (*InN: Breaking the Limits of Solid-State Electronics*)

Zodpovedný riešiteľ: Ján Kuzmík
Trvanie projektu: 1.11.2023 / 30.6.2026
Evidenčné číslo projektu: 09I01-03-V04 -00019
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Výskumná agentúra: 26261 €

42.) Pokročilé hybridné superkondenzátorové prvky na báze 2D materiálov (*Advanced 2D based hybrid supercapacitor devices*)

Zodpovedný riešiteľ: Michaela Sojková
Trvanie projektu: 1.3.2024 / 30.6.2026
Evidenčné číslo projektu: 09I05-03-V02-00037
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: -

43.) Využitie energie riek pre každého (*Harnessing the energy of rivers for everyone*)

Zodpovedný riešiteľ: Mykola Soloviov
Trvanie projektu: 1.10.2024 / 31.3.2026
Evidenčné číslo projektu: 09I04-03-V03-00001
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 4 - Slovensko: 4

inštitúcií:
Čerpané financie: -

44.) Výskum technológie výroby nízkonákladových polovodičových zariadení na báze oxidov pre IoT a senzorové aplikácie (*Research of fabrication technology for low-cost oxide-based semiconductorelectronic devices for IoT and sensor applications*)

Zodpovedný riešiteľ: Milan Ťapajna
Trvanie projektu: 1.1.2024 / 30.6.2026
Evidenčné číslo projektu: 09I05-03-V02-00030
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: -

45.) Nové polovodičové materiály pre pixelové senzory s využitím pre digitálnu rádiografiu (*New semiconductor materials for pixel sensors with applications in digital radiography*)

Zodpovedný riešiteľ: Bohumír Zaťko
Trvanie projektu: 1.1.2024 / 30.6.2026
Evidenčné číslo projektu: 09I05-03-V02-00073
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: -

46.) Perspektívne detektory ionizujúceho žiarenia pre vysoko-energetické (*Perspective ionizing radiation detectors for high-energy particles*)

Zodpovedný riešiteľ: Bohumír Zaťko
Trvanie projektu: 1.7.2024 / 30.6.2026
Evidenčné číslo projektu: 09I03-03-V06-00108
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Programy: PostdokGrant

47.) Ťahové a tlakové limity REBCO supravodiča – metodológia (*REBCO superconductor tensile and compressive limits - methodology*)

Zodpovedný riešiteľ: Tomáš Kujovič
Trvanie projektu: 1.7.2024 / 31.12.2025
Evidenčné číslo projektu: APD0064
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 8861 €

48.) Vplyv substrátu na teplotné nestability pri kladnom napätí v obohacovacích Al₂O₃/InAlN/GaN MOSHEMT-och (*Impact of substrate material on positive bias temperature instabilities in enhancement mode Al₂O₃/InAlN/GaN MOSHEMTs*)

Zodpovedný riešiteľ: Ondrej Pohorelec
Trvanie projektu: 1.7.2024 / 31.12.2025
Evidenčné číslo projektu: 24183001
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 6045 €

49.) Nízkotepotné merania pomocou Ramanovej a Infračervenej spektroskopie: MoTe₂, WTe₂, PtSe₂ (*Raman and FTIR low-temperature study of PtSe₂, MoTe₂ and WTe₂ thin films*)

Zodpovedný riešiteľ: Lenka Pribusová Slušná
Trvanie projektu: 1.7.2024 / 31.12.2025
Evidenčné číslo projektu: APD0021
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 4205 €

50.) Výroba feromagnetických nanoštruktúr pre magnónový kryštál (*Fabrication of ferromagnetic nanostructures for magnonic crystal*)

Zodpovedný riešiteľ: Iuliia Vetrova
Trvanie projektu: 1.7.2024 / 31.12.2025
Evidenčné číslo projektu: 24182002
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0

Čerpané financie:

SAV: 4943 €

Publikačná činnosť organizácie

Príloha je generovaná z ARL.

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

- ADCA01 ADIPUTRA, Richard - CHEN, Yi-Hung - WU, Shang-Ru - VANKO, Gabriel - ANDOK, Robert - TSAI, Hung-Yin. Study on fabrication of force transducer based on carbon nano-flake balls. In Nanotechnology, 2024, vol. 35, art. no. 035503. (2023: 2.9 - IF, Q2 - JCR, 0.631 - SJR, Q2 - SJR). ISSN 0957-4484. Dostupné na: <https://doi.org/10.1088/1361-6528/ad0050>
- ADCA02 AGUEDO, Juvisan - VOJS, Marián - VRŠKA, Martin - NEMČOVIČ, Marek - PAKANOVÁ, Zuzana - AUBRECHTOVÁ DRAGONOVÁ, Kateřina - ROMANYUK, Oleksandr - KROMKA, Alexander - VARGA, Marian - HATALA, Michal - MARTON, Marián - TKÁČ, Ján. What Are the Key Factors for the Detection of Peptides Using Mass Spectrometry on Boron-Doped Diamond Surfaces? In Nanomaterials-Basel, 2024, vol.14, art. no. 1241. (2023: 4.4 - IF, Q2 - JCR, 0.798 - SJR, Q1 - SJR). ISSN 2079-4991. Dostupné na: <https://doi.org/10.3390/nano14151241>
- ADCA03 ASIMAKOPOULOU, E.M.** - BELLUCCI, V. - BIRNSTEINOVA, S. - YAO, Z.H. - ZHANG, Yu - PETROV, Ivo - DEITER, C. - MAZZOLARI, A. - ROMAGNONI, M. - KORYTÁR, Dušan - ZÁPRAŽNÝ, Zdenko - KUGLEROVÁ, Zuzana - JUHA, Libor - LUKIČ, B. - RACK, A. - SAMOYLOVA, L. - GARCIA-MORENO, F. - HALL, S. - NEU, T. - LIANG, X. - VAGOVIČ, Patrik - VILLANUEVA-PEREZ, P. Development towards high-resolution kHz-speed rotation-free volumetric imaging. In Optics Express, 2024, vol. 32, no. 3, pp. 4413-4426. (2023: 3.2 - IF, Q2 - JCR, 0.998 - SJR, Q1 - SJR). ISSN 1094-4087. Dostupné na: <https://doi.org/10.1364/OE.510800> (VEGA 2/0041/21)
- ADCA04 BELLUCCI, V.** - BIRNSTEINOVA, S. - SATO, T. - LETRUN, R. - KOLIYADU, J.C.P. - KIM, C.G. - GIOVANETTI, G. - DEITER, C. - SAMOYLOVA, L. - PETROV, Ivo - MORILLO, L.L. - GRACEFFA, R. - ADRIANO, L. - HUELSEN, H. - KOLLMANN, Heinz A. - CALLISTE, T.N.T. - KORYTÁR, Dušan - ZÁPRAŽNÝ, Zdenko - MAZZOLARI, A. - ROMAGNONI, M. - ASIMAKOPOULOU, E.M. - YAO, Z.H. - ZHANG, Yadan - ULICNY, J. - MEENTS, A. - CHAPMAN, Henry N. - BEAN, R. - MANCUSO, A.P. - VILLANUEVA-PEREZ, P. - VAGOVIČ, Patrik. Development of crystal optics for X-ray multi-projection imaging for synchrotron and XFEL sources. In Journal of Synchrotron Radiation, 2024, vol. 31, p. 1534-1550. (2023: 2.4 - IF, Q2 - JCR, 1.029 - SJR, Q1 - SJR). ISSN 1600-5775. Dostupné na: <https://doi.org/10.1107/S1600577524008488> (VEGA 2/0041/21)
- ADCA05 BENNÁR, Michal - ŠPANKOVÁ, Marianna** - TALACKO, Marcel - GREGOR, M. - KRONEK, Juraj - CHROMIK, Štefan. Enhancement of YBCO superconductivity by chemical surface treatment. In Journal of Materials Science. Materials in Electronics, 2024, vol. 35, no. 21, art.no. 1472, [8] p. (2023: 2.8 - IF, Q2 - JCR, 0.512 - SJR, Q2 - SJR). ISSN 0957-4522. Dostupné na: <https://doi.org/10.1007/s10854-024-13243-7> (VEGA 2/0140/22. APVV 19-0303)
- ADCA06 BEŇO, Milan - BEŇOVÁ-LISZEKOVÁ, Denisa - KOSTIČ, Ivan - ŠERÝ, Michal - MENTELOVÁ, Lucia - PROCHÁZKA, Michal - ŠOLTÝS, Ján - TRUSINOVÁ, Ľudmila - RITOMSKÝ, Mário - OROVČÍK, Ľubomír - JERIGOVÁ, Monika - VELIČ, Dušan - MACHATA, Peter - OMASTOVÁ, Mária - CHASE, Bruce A. -

- FARKAŠ, Robert**. Gross morphology and adhesion-associated physical properties of *Drosophila* larval salivary gland glue secretion. In *Scientific Reports*, 2024, vol. 14, no. 1, art. no. 9779, [27]p. (2023: 3.8 - IF, Q1 - JCR, 0.9 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-57292-8> (VEGA 2/0103/17 : Molekulárno-mechanistické aspekty fungovania komplexu vývinovo-spriahnutých malát dehydrogenáz u *Drosophila melanogaster*. COST action CA15216 : Sekretorické proteíny slinných žliaz *Drosophila* ako biodegradovateľné prírodné lepidlo s programovateľnými vlastnosťami. APVV-16-0219 : Identifikácia molekulárno-genetických determinantov apokrinnej sekrécie)
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ADCA500

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- AFD02 CHVÁLA, A. - NAGY, L. - MAREK, J. - PRIESOL, J. - DONOVÁL, D. - VILHAN, Martin - BLAHO, Michal - GREGUŠOVÁ, Dagmar - KUZMÍK, Ján - ŠATKA, A. Simulation analysis of InAlN/GaN monolithic NAND logic cell. In ASDAM 2018 : The Twelfth International Conference on Advanced Semiconductor Devices and Microsystems. Editors: J. Breza, D. Donoval, E. Vavrinsky. - IEEE, 2018, p. 167-170. ISBN 978-1-5386-7488-8. Dostupné na: <https://doi.org/10.1109/ASDAM.2018.8544508>
Citácie:
1. [1.1] GMEINER, F. - YANG, H.P. - YAO, L.N. - HOLSTEIN, K. - MARTELARO, N. Exploring Challenges and Opportunities to Support Designers in Learning to Co-create with AI-based Manufacturing Design Tools. In PROCEEDINGS OF THE 2023 CHI CONFERENCE ON HUMAN FACTORS IN COMPUTING SYSTEMS, CHI 2023. 2023. Dostupné na: <https://doi.org/10.1145/3544548.3580999>, Registrované v: WOS
- AFD03 MUDROŇ, J. - MÜLLEROVÁ, J. - DUBECKÝ, František. Optical properties of semi-insulating GaAs irradiated by fast neutrons. In ASDAM '96 : Proceedings of the International Conference on Advanced Semiconductor Devices and Microsystems. - Bratislava : IEE SAS, 1996, p. 245.
Citácie:
1. [1.1] BEN ARBIA, M. - DEMIR, I. - KAUR, N. - SAIDI, F. - ZAPPA, D. - COMINI, E. - ALTUNTAS, I. - MAAREF, H. Experimental insights toward carrier localization in in-rich InGaAs/InP as candidate for SWIR detection: Microstructural analysis combined with optical investigation. In MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. ISSN 1369-8001, JAN 2023, vol. 153. Dostupné na: <https://doi.org/10.1016/j.mssp.2022.107149>, Registrované v: WOS
- AFD04 ŤAPAJNA, Milan - VINCZE, A. - NOGA, Pavol - DOBROVODSKÝ, Jozef - ŠAGÁTOVÁ, A. - HASENÖHRL, Stanislav - GREGUŠOVÁ, Dagmar - KUZMÍK, Ján. Determination of secondary-ions yield in SIMS depth profiling of Si, Mg, and C ions implanted GaN epitaxial layers. In ASDAM 2018 : The Twelfth International Conference on Advanced Semiconductor Devices and Microsystems. Editors: J. Breza, D. Donoval, E. Vavrinsky. - IEEE, 2018, p. 141-144. ISBN 978-1-5386-7488-8. Dostupné na: <https://doi.org/10.1109/ASDAM.2018.8544657> (VEGA 2/0012/18)
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AFK Postery zo zahraničných konferencií

AFK01 STAINES, M. - YAZDANI ASRAMI, M. - GLASSON, N. - ALLPRESS, N. - JOLLIFFE, L. - PARDO, Enric. Cooling systems for HTS transformers: impact of cost, overload, and fault current performance expectations (European Cryogenics Days 2017 and the 2nd International Workshop on Cooling Systems for HTS Applications (IWC-HTS) : Karlsruhe 2017)

Citácie:

1. [1.1] WU, Y. - SONG, W.J. - WIMBUSH, S.C. - FANG, J. - BADCOCK, R.A. - LONG, N.J. - JIANG, Z.A. *Combined Impact of Asymmetric Critical Current and Flux Diverters on AC Loss of a 6.5 MVA/25 kV HTS Traction Transformer. In IEEE TRANSACTIONS ON TRANSPORTATION ELECTRIFICATION. ISSN 2332-7782, MAR 2023, vol. 9, no. 1, p. 1590-1604. Dostupné na: <https://doi.org/10.1109/TTE.2022.3194027>, Registrované v: WOS*

GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup

GHG01 HURAN, Jozef - BOHÁČEK, Pavol - SHVETSOV, V.N. - KOBZEV, A.P. - KLEINOVÁ, Angela - SASINKOVÁ, Vlasta - BALALYKIN, Nikolay I. - SEKÁČOVÁ, Mária - ARBET, Juraj. Amorphous silicon carbide thin films deposited by plasma enhanced chemical vapor deposition at different temperature for hard environment applications. In 21st International Symposium on Plasma Chemistry : Cairns (Australia) 2013 [elektronický zdroj], <http://www.ispc-conference.org/ispcproc/ispc21/ID180.pdf>.

Citácie:

1. [1.1] BOUSSAA, S.A. - BENFADEL, K. - KHODJA, A.T. - AYACHI, M. - BOULIL, R. - BEKHEDDA, K. - TALBI, L. - BOUKEZZATA, A. - OUADAH, Y. - ALLAM, D. - MAIFI, L. - KEFFOUS, A. - CHETOUI, A. - TORKI, C. - BOUDEFFAR, F. - ACHACHA, S. - MANSERI, A. - BOUTAREK, N.Z. - KACI, S. *Elaboration and Characterization of Amorphous Silicon Carbide Thin Films (a-SiC) by Sputtering Magnetron Technique for Photoelectrochemical CO2 Conversion. In SILICON. ISSN 1876-990X, FEB 2023, vol. 15, no. 3, p. 1145-1157. Dostupné na: <https://doi.org/10.1007/s12633-022-02075-x>, Registrované v: WOS*

Príloha A-4

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Ing. Ján Šoltýs, PhD

Názov semestr. predmetu: Nanotechnológie

Počet hodín za semester: 4

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Ing. Jaroslav Tóbik, PhD.

Názov semestr. predmetu: Aplikovaný magnetizmus

Počet hodín za semester: 5

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Semestrálne cvičenia:

Ing. Michal Blaho, PhD.

Názov semestr. predmetu: CAE elektronických prvkov

Počet hodín za semester: 3

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚEF

RNDr. Dagmar Gregušová, DrSc.

Názov semestr. predmetu: Praktikum FTL

Počet hodín za semester: 36

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra experimentálnej fyziky

Ing. Ján Šoltýs, PhD

Názov semestr. predmetu: Nanotechnológie

Počet hodín za semester: 4

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Ing. Jaroslav Tóbik, PhD.

Názov semestr. predmetu: Fyzika 2

Počet hodín za semester: 52

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Ing. Jaroslav Tóbik, PhD.

Názov semestr. predmetu: Fyzika 3

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚJFI

Semináre:

Terénne cvičenia:

Ing. Marek Búran, PhD.

Názov semestr. predmetu: Elektromagnetické prvky a systémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Ing. Lubomír Frolek
Názov semestr. predmetu: Elektromagnetické prvky a systémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Ing. Martin Kucharovič, PhD.
Názov semestr. predmetu: Elektromagnetické prvky a systémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Ing. Tomáš Kujovič, PhD.
Názov semestr. predmetu: Elektromagnetické prvky a systémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Mgr. Mykola Soloviov, PhD.
Názov semestr. predmetu: Elektromagnetické prvky a systémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Ing. Ján Šouc, CSc.
Názov semestr. predmetu: Elektromagnetické prvky a systémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Individuálne prednášky:

doc. Ing. Fedor Gömöry, DrSc.
Názov semestr. predmetu: Elektromagnetické prvky a systémy
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, ÚE

Príloha A-5

Medzinárodná mobilita organizácie

(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Belgicko					Juraj Feilhauer	3
Česko					Mohammad Dehghan	7
					Filip Gucmann	2
					Tibor Izsák	6
					Tibor Izsák	9
					Tomáš Kujovič	1
					Ondrej Pohorelec	1
					Tomáš Ščepka	1
					Jaroslav Tóbik	1
					Marian Varga	10
					Marian Varga	6
					Marian Varga	6
					Marian Varga	7
					Iuliia Vetrova	2
					Bohumír Zat'ko	6
					Bohumír Zat'ko	6
Dánsko					Boris Hudec	4
Francúzsko					Marek Búran	4
					Marek Búran	4
					Fedor Gömöry	4
					Eugen Seiler	5
					Viera Skákalová	8
Grécko					Michal Blaho	4

				Ján Kuzmík	4
				Ján Kuzmík	28
Holandsko				Eugen Seiler	8
Írsko				Michaela Sojková	2
Japonsko				Fedor Hrubíšák	180
Maďarsko				Ondrej Pohorelec	1
				Milan Ťapajna	1
Nemecko				Anang Dadhich	3
				Filip Gucmann	2
				Enric Pardo	3
Poľsko				Štefan Chromik	6
				Marianna Španková	6
Rakúsko				Fridrich Egyenes	1
				Fridrich Egyenes	1
				Fridrich Egyenes	6
				Jana Hrdá	1
				Martin Hulman	1
				Timea Ema Krajčovičová	1
				Ján Kuzmík	2
				Pavol Mozola	1
				Viera Skákalová	1
				Michaela Sojková	1
Španielsko				Dagmar Gregušová	2
				Ján Kuzmík	3
				Ondrej Pohorelec	4
Taiwan				Boris Hudec	8
				Ondrej Pohorelec	24
Taliansko				Michal Blaho	2
				Ján Kuzmík	2
USA				Michal Blaho	7

				Ján Fedor	21
				Fedor Gömöry	7
				Ján Kuzmík	13
Veľká Británia				Michal Blaho	2
				Ján Fedor	4
				Ján Kuzmík	2
				Bohumír Zat'ko	5
Počet vyslaní spolu				60	473

(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
Česko					Bergmann B.	2
					Slavíček T.	2
Francúzsko					Rutterana P.	1
Grécko					Aslanidis E.	5
					Konstantinide s G.	5
					Micholas L.	5
Japonsko					Méhes G.	2
					Suemitsu T.	1
Rakúsko					Bui T.T.A.	3
					Markevich A.	3
					Mustonen K.	3
Taliansko					Fracasso M.	5
					Soldati L.	3
					Tebano R.	3
Počet prijatí spolu					14	43

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Česko	FTIR	Lenka Pribusová Slušná	2
	Graphene Week 2024	Jana Hrdá	5
		Martin Hulman	5
		Lenka Pribusová Slušná	5
		Michaela Sojková	5
	Laser 64	Lenka Pribusová Slušná	3
	Nanocon 2024	Tibor Izsák	4
		Marian Varga	4
Fínsko	ALD	Boris Hudec	5
		Michal Pecz	5

Francúzsko	Magnetism	Iuliia Vetrova	6
Grécko	WOCSDICE- EXMATEC 2024	Javad Keshtar	7
		Jozef Novák	7
Chorvátsko	JVC 2024	Jozef Novák	6
		Ján Šoltýs	6
Lotyšsko	IEEE NAP-2024	Michal Bennár	5
		Vladimír Cambel	5
		Tetiana Kalmykova	5
Maďarsko	V4	Mohammad Dehghan	3
		Boris Hudec	3
Nemecko	ICNCE-2024	Mohammad Dehghan	4
		Boris Hudec	4
	IWGO 2024	Milan Ťapajna	5
	NanoNet	Martin Hulman	4
		Michaela Sojková	4
Poľsko	PCG2D	Viera Skákalová	3
Portugalsko	iWoRID	Bohumír Zaťko	5
Rakúsko	CECMD	Viera Skákalová	1
	CEMRD	Viera Skákalová	2
	IWEPNM 2024	Martin Hulman	6
		Viera Skákalová	6
		Michaela Sojková	6
	NANOMAT2024	Marian Varga	4
Slovensko	SPOC	Filip Guemann	5
Švajčiarsko	ICEC/ICMC	Anang Dadhich	6
		Arif Hussain	6
		Pavol Kováč	6
	IWNM HTS 2024	Anang Dadhich	5
		Fedor Gömöry	5
		Enric Pardo	5
		Mykola Soloviov	5
Taliansko	GaN24	Roman Stoklas	6
	GM2024	Ján Kuzmík	4
Turecko	ICSM 2024	Enric Pardo	6
USA	ASC	Fedor Gömöry	10
		Enric Pardo	10
	IWN	Michal Blaho	6
		Dagmar Gregušová	6
		Ján Kuzmík	6
	NT24	Michaela Sojková	6
	SPIE 2024	Filip Guemann	8
Veľká Británia	AEM 2024	Viera Skákalová	2
Spolu	30	52	263

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

Skratky použité v tabuľke C:

AEM 2024 - Advanced Energy Materials

ALD - AVS International Conference on Atomic Layer Deposition
 ASC - Applied Superconductivity Conference 2024
 CECMD - Central European Condensed Matter Physics Day
 CEMRD - Central European Material Research Day
 FTIR - VII. Setkání uživatelů FTIR a Ramanových spektrometrů BRUKER
 GaN24 - GaN Marathon 2024
 GM2024 - GaN Marathon 2024
 Graphene Week 2024 - Graphene Week 2024
 ICEC/ICMC - 29th International Cryogenic Engineering Conference/International Cryogenic Materials Conference
 ICNCE-2024 - International Conference on Neuromorphic Computing and Engineering
 ICSM 2024 - International Conference on Superconductivity and Novel Magnetism
 IEEE NAP-2024 - 14th International Conference Nanomaterials: Applications & Properties
 IWEPNM 2024 - International Winterschool on Electronic Properties of Novel Materials
 IWGO 2024 - International Workshop on Gallium Oxide and Related Materials
 IWN - 12th International Workshop on Nitride Semiconductors
 IWNM HTS 2024 - 9th International Workshop on Numerical Modelling of High Temperature Superconductors - HTS 2024
 iWoRID - 23rd International Workshop on Radiation Imaging Detectors
 JVC 2024 - 19th Joint Vacuum Conference & 30th International Scientific Meeting on Vacuum Science and Technique
 Laser 64 - Laser 64
 Magnetism - GDR MEETICC Magnetism 2024
 Nanocon 2024 - 16th International Conference on Nanomaterials - Research & Application
 NANOMAT2024 - 8th edition of the International Conference on Functional Nanomaterials and Nanodevices 2024
 NanoNet - NanoNet+ Annual Workshop 2024
 NT24 - 24th International Conference on Science and Application of Nanotubes and Low-Dimensional Materials
 PCG2D - 9th Polish Conference Graphene and other 2D materials
 SPIE 2024 - SPIE Photonics West, Oxide-Based Materials and Devices XV
 SPOC - 23rd Slovak-Czech-Polish Optical Conference on Wave and Quantum Aspects of Contemporary Optics
 V4 - Korea-V4 Workshop on Memristive Technologies
 WOCS-DICE-EXMATEC 2024 - 47th Workshop on Compound Semiconductor Devices and Integrated Circuits

Príloha A-6

Vedecko-popularizačná činnosť pracovníkov organizácie

Meno	Spoluautori	Typ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Ing. Marek Búran, PhD.	T. Kujovič	iné	DOD 2024: Fakulta elektrotechniky a informatiky STU v Bratislave	Bratislava	1.2.2024
Ing. Ondrej Pohorelec, PhD.	M. Bennár, M. Talacko	iné	Doktorandská búrka	Bratislava	13.5.2024
Ing. Ondrej Pohorelec, PhD.	T. Kujovič	iné	PerFEKT Job Fair 2024	Brno	23.4.2024
Ing. Michal Sobota, PhD.		PB	Navštív svoju školu – Spoznaj svojho vedca,	Gymnázium Ladislava Sáru, Bratislava	3.9.2024
Mgr. Michaela Sojková, PhD.	J. Hrdá, L. Pribusová Slušná, M. Pecz, L. Frolek, M. Kucharovič, T. Kujovič, P. Kotrusz, T. Krajčovičová, M. Precner	iné	Európska noc vedy	Bratislava, Stará Tržnica	30.9.2024
Mgr. Michaela Sojková, PhD.	O. Pohorelec, J. Hrdá, L. Pribusová Slušná, M. Pecz, M. Kucharovič, T. Kujovič, P. Kotrusz, J. Kesthkar, M. Ľapajna	iné	My sme SAV	Bratislava, Hviezdoslavovo námestie	14.6.2024

¹ PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédiá, DO - dokumentárny film

Príloha A-7

Vyznamenania, ceny a iné ocenenia udelené organizácii a jej pracovníkom v roku 2024

Domáce ocenenia

Ocenenia SAV

Iné domáce ocenenia

Búran Marek

Cena Aurela Stodolu

Oceňovateľ: STU

Opis: Cenu za Najlepšiu dizertačnú prácu

Hrdá Jana

Cena Rektora STU

Oceňovateľ: STU

Medzinárodné ocenenia

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

ČASŤ B

[Elektrotechnický ústav SAV, v. v. i.]

**Výročná správa o hospodárení organizácie
za rok 2024**

Obsah

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

[Údaje o spracovaní výročnej správy o hospodárení]

[Stanoviská orgánov v. v. i.]

[Údaje a elektronický podpis riaditeľa organizácie]

PRÍLOHY K ČASTI B

B-1 Ročná účtovná závierka

19. Základné informácie o hospodárení organizácie

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

19.1 Prehľad základných finančných ukazovateľov

	K 31. 12. 2024	k 31. 12. 2023
Finančné výsledky (v euro)		
Aktíva	5704419,57	3882726,39
Neobežný majetok	3121620,88	1602863,28
Dlhodobý nehmotný majetok	28491,52	13424,96
Dlhodobý hmotný majetok	3093129,36	1589438,32
Dlhodobý finančný majetok		
Obežný majetok	2581388,69	2270532,88
Zásoby	24091,99	22631,91
Dlhodobé pohľadávky		
Krátkodobé pohľadávky	133920,93	1095191,6
Finančné účty	2423375,77	1152709,37
Časové rozlíšenie	1410	9330,23
Pasíva	5704419,57	2882726,39
Vlastné imanie	488670,77	514024,49
Základné imanie	154400,16	154400,16

Fondy tvorené zo zisku	14900,-	6000,-
Nevysporiadaný HV minulých rokov	279766,90	317013,98
Výsledok hospodárenia za účtovné obdobie	39603,71	36610,35
Závazky	346257,87	239326,47
Zúčtovanie medzi subjektami VS (2024)	96504,-	
Dlhodobé záväzky	12622,01	115522,51
Krátkodobé záväzky	332666,56	123803,96
Bankové úvery a iná výpomoci a pôžičky		
Časové rozlíšenie	4869489,93	3129375,43
Výkaz ziskov a strát		
Výsledok hospodárenia z hlavnej činnosti pred		
Tržby z predaja tovarov a služieb	280292,89	202427,5
Iné ostatné výnosy	2539,36	44378,83
Dotácie	4363458,37	3800294,86
Transfery (2024)	541561,03	410753,15
Prijaté príspevky od právnických osôb		
Celkové náklady účtovná trieda 5.	5143735,19	4416043,27
Výsledok hospodárenia pred zdanením		
Výsledok hospodárenia pred zdanením	44116,46	41810,92
Výsledok hospodárenia po zdanení	39603,71	36610,35
Pomerové ukazovatele		
.. Rentabilita aktív (ROA)	1,06	0,94
Rentabilita vlastného imania (ROE)	8,10	7,12

19.2 Ďalšie informácie o stave a vývoji organizácie z hľadiska hospodárenia

a) Udalosti osobitného významu po 31. 12. 2024 z hľadiska hospodárenia organizácie

Po uzavretí účtovného obdobia kalendárneho roka 2024 nenastali udalosti zásadného významu z hľadiska hospodárenia organizácie.

b) Predpokladaný budúci vývoj organizácie v roku 2025

28.6.2024 podpísal minister financií dokumenty, ktoré v zmysle zákona o rozpočtových pravidlách stanovujú limit verejných výdavkov na rok 2024. V zmysle zákona budeme mať problém nevyčerpané prostriedky vo výške 2410753,76 € z roku 2024 použiť v roku 2025, nakoľko sú prenesené z roku 2024 a nemohli byť zahrnuté do limitu verejných výdavkov.

c) Náklady na činnosť v oblasti výskumu a vývoja

Celková výška nákladov bola 5 143 735,19 € a z toho náklady na činnosť v oblasti výskumu a vývoja boli 5 102 571,58 €. V súlade so zameraním inštitúcie sú všetky náklady v. v. i. vykazované v časti výkazu ziskov a strát účtovnej závierky nákladmi na činnosť v oblasti výskumu a vývoj okrem nákladov spojených s predajom dusíka a hélia.

d) Návrh na rozdelenie zisku alebo vyrovnanie straty:

Ak správna rada nerozhodne inak, tak všetky prostriedky zo zisku sa použijú na tvorbu rezervného fondu. Z nich sa uhradí strata z predchádzajúceho účtovného obdobia a zvyšok zisku sa spravidla delí na tretiny. Jedna tretina zostáva v rezervnom fonde a dve tretiny sa použijú na krytie strát z minulých rokov. Suma sa zaokrúhľuje na 100 € nahor v prospech tvorby rezervného fondu.

Výsledok hospodárenia v roku 2024 zisk	39603,71
použité RF na vyrovnanie straty za predchádzajúci rok 2023	0
Zostatok zisku z roku 2024 na pomerné delenie	39603,71
1/3 zostáva v rezervnom fonde (po zaokrúhlení na 100 € nahor)	13300,00
použitie 2/3 na krytie strát z minulých rokov za rok 2010	26 303,71

e) Ostatné informácie súvisiace s hospodárením v. v. i.

f) Informácia o konsolidácii účtovníctva organizácie

Rozpočet organizácie je súčasťou konsolidovaného celku rozpočtovej kapitoly SAV.

20. Prehľad príjmov a výdavkov

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

Príjmy a výdavky z hlavnej činnosti

	FP k 01.01.2024	Schválený rozpočet	Upravený rozpočet	Skutočnosť	Zostatok FP k 31.12.2024
1	2	3	4	5	6
Príjmy spolu	1139071,86	3482066	8006826,94	8179184,94	2410753,76
Z toho:					
ŠR ZDROJ 131	19421,42				27140,44
ŠR ZDROJ 111 (IFP)		2652481,-	3334384,60	3334384,60	
ŠR ZDROJ 111(0HU0E01)			282311,-	282311,-	
ŠR ZDROJ 111 (APVV)		431585,-	610983,-	783341,-	96504,-
ŠR ZDROJ 111(087010H)		34458,-	0	0	
ŠR ZDROJ 111(0870612)			40554,-	40544,-	
Spolu zo ŠR	19421,42	3118524,-	4268232,60	4440590,60	123644,44
ŠF ZDROJ 1AA1			121482,04	121482,04	
ŠF ZDROJ 3AA1	87313,69		184244,25	184244,25	119419,12
ŠF ZDROJ 3AA2	10272,16		47786,65	47786,65	52892,45
PO ZDROJ 1P01			50000,-	50000,-	
PO ZDROJ 3P01	105476,40		744738,37	744738,37	159541,49
PO ZDROJ 3P02	4628,55		168717,13	168717,13	53266,02
Zahraničie ZDROJ 11GR		320000,-	303903,70	303903,70	
Zahraničie ZDROJ 13GR	496099,47				393289,94
Zahraničie ZDROJ 35	318254,90		1909593,84	1909593,84	1490611,60
Vlastné zdroje ZDROJ 46	97605,27	43542,-	208128,36	208128,36	18088,70
Výdavky spolu		3477066	8002754,94	6907503,04	
Z toho:					
ŠR ZDROJ 131	x			19421,42	
ŠR ZDROJ 111 (IFP)	x	2652481,00	3334384,60	3332490,34	
ŠR ZDROJ 111(0HU0E01)			282311,-	282311	
ŠR ZDROJ 111 (APVV)	x	431585,00	607661,00	661605,58	
ŠR ZDROJ 111(087010H)		34458,00	0,00	0	

ŠR ZDROJ 111(0870612)			39804,-	40539,24	
Spolu zo ŠR	x	3118524	4264160,6		
ŠF ZDROJ 1AA1			121482,04	121482,04	
ŠF ZDROJ 3AA1			184244,25	152138,82	
ŠF ZDROJ 3AA2			47786,65	5166,36	
PO ZDROJ 1P01			50000,-	50000,-	
PO ZDROJ 3P01			744738,37	690673,28	
PO ZDROJ 3P02			168717,13	120079,66	
Zahraničie ZDROJ 11GR		315000	303903,70	31059,34	
Zahraničie ZDROJ 13GR				375653,89	
Zahraničie ZDROJ 35	x		1909593,84	737237,14	
Vlastné zdroje ZDROJ 46	x	43542,-	208128,36	287644,93	

Príjmy a výdavky (v zmysle zákona č. 243/2017 Z. z.)	Príjmy	Výdavky
z hlavnej činnosti okrem druhého a tretieho bodu	8143209,94	6871528,04
činnosti podľa § 2 ods. 1 písm. a) zákona		
činnosti podľa § 2 ods. 1 písm. b) zákona		
činnosti podľa § 2 ods. 1 písm. c) zákona		
činnosti podľa § 2 ods. 1 písm. d) zákona	35975,-	35975,-
činnosti podľa § 2 ods. 1 písm. e) zákona		

21. Pohyb a konečný stav majetku

V oblasti dlhodobého majetku boli prírastky v sume 1 012 395,96 €. Najvýznamnejšie položky : PECVD depozič. systém v hodnote 252 000 €, zariadenie na meranie povrchov v hodnote 180 000 €, vzduchotechnika pre laboratória 89 445,77 €, zariadenie na meranie kvantového transp. 74 400 €, laserová trubica pre excimer. laser Compex Pro 62 354,88 €, šoková komora 62 220 €, FastHall zariadenie s prísl. 60 516 €. Úbytok vyradeného majetku bol v hodnote 27 541,29 €.

Majetok (celkové aktíva brutto)

	2024	2023
Celkové aktíva [€]	19557479,74	17600828,09
Nárast aktív [%]	11,12	
Pokles aktív [%]		2,57

Štruktúra majetku

(aktíva brutto)

	2024		2023	
	v euro	(%) podiel	v euro	(%) podiel
Dlhodobý nehmotný majetok	121124,09	0,62	100802,09	0,57
Dlhodobý hmotný majetok	16817848,25	85,99	15184454,18	86,28
Dlhodobý finančný majetok				
Dlhodobé pohľadávky				
Krátkodobé pohľadávky	133920,93	0,68	1095191,60	6,22
Zásoby	59800,70	0,31	58340,62	0,33
Dlhodobé pohľadávky				
Finančné účty	2423375,77	12,39	1152709,37	6,55
Časové rozlíšenie	1410,00	0,01	9330,23	0,05
Aktíva (Majetok brutto)	19557479,74	100	17600828,09	100

Majetok

(celkové aktíva netto)

	2024	2023
Celkové aktíva [€]	5704419,57	3882726,39
Nárast aktív [%]	46,92%	
Pokles aktív [%]		7,47

Štruktúra majetku

(aktíva netto)

	2024		2023	
	v euro	(%) podiel	v euro	(%) podiel
Dlhod. nehmotný majetok	28491,52	0,51	13424,96	0,35
Dlhodobý hmotný majetok	3093129,36	54,22	1589438,32	40,94
Dlhodobý finančný majetok	-	-	-	-
Dlhodobé pohľadávky	-	-	-	-
Krátkodobé pohľadávky	133920,93	2,35	1095191,60	28,20
Zásoby	24091,99	0,42	22631,91	0,58
Dlhodobé pohľadávky				
Finančné účty	2423375,77	42,48	1152709,37	29,69
Časové rozlíšenie	1410,00	0,02	9330,23	0,24
Aktíva	5704419,57	100	3882726,39	100

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

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

V roku 2023 bol vykonaný štatutárny audit účtovnej závierky, ktorý neidentifikoval nedostatky a neuložil povinnosť prijať opatrenia na odstránenie nedostatkov. V roku 2024 neboli na ústave vykonané externé kontroly.

23. Ďalšie údaje o hospodárení organizácie

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

23.1. Výdavky organizácie – štruktúra zdrojov

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

Typ organizácie (v.v.i.)		Zdroje, z ktorých sa kryli jednotlivé výdavky			
Výdavky	Spolu	kapitola SAV (111)	iné štátne a verejné zdroje	ostatné zdroje	% krytia z kapitoly SAV
1. Bežné výdavky	5 438 192,98	3 577 712,94	1 149 951,52	710 528,52	65,79
z toho: mzdy (610)	2 589 669,00	2 052 006,63	285 986,09	251 676,28	79,24
vedecká výchova štipendiá (640)	134 653,11	95 206,90	29 384,24	10 061,97	70,71
poistné a príspevkov do poisťovní (620)	929 910,22	723 416,24	104 400,98	102 093,00	77,79
tovary a služby (630)	1 255 672,09	699 307,55	228 970,40	327 394,14	55,69
transfery jednotlivcom a partnerom projektov (640)	528 288,56	7 775,62	501 209,81	19 303,13	1,47
2. Kapitálové výdavky	1 469 310,06	48 799,40	699 443,88	721 066,78	3,32
z toho: obstarávanie kapitálových aktív	1 469 310,06	48 799,40	699 443,88	721 066,78	3,32
kapitálové transfery	0,00				0,00

23.2. Zdroje financovania organizácie

Tabuľka 23b Zdroje financovania organizácie (skutočnosť k 31. 12. 2024 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 partnerom projektov
1. kapitola SAV (111)	3 628 406,60	48 811,00	2 052 006,63	723 416,24	
z toho: VEGA	167 240,00				

MVTS výskumné projekty	69 706,00	18 811,00			
MVTS podpora	44 831,00				
SASPRO/MOREPRO	52 509,00				
Vydávanie časopisov	0,00				
Mobility	4 500,00				
Vedecká výchova (štipendiá)	100 126,90				
OTAS (630)	3 189 493,70	30 000,00			
2. ŠF EÚ vr. fin. zo ŠR	1 524 659,24	775 822,90	53 030,34	24 847,52	219 722,00
3. medzinárodné grantové projekty	3 027 851,91	640 974,30	199 130,11	69 393,58	
z toho: H2020	87 796,38		46 347,50	15 986,68	
4. iné štátne a verejné zdroje (spolu)	831 605,42				
z toho: APVV	791 051,42		207 306,94	70 527,16	227 983,00
podpora z kapitoly MŠVVaŠ SR (stimuly)	40 554,00		25 648,81	9 027,30	
5. ostatné zdroje	305 733,63	63 231,48	21 270,34	21 550,76	
z toho: príjmy z prenájmu					
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb	304509,56	16 861,00	31275,83	11148,66	

23.3 Ostatné údaje o hospodárení organizácie

Organizácia nevykonáva podnikateľskú činnosť, ale vykonáva ekonomickú činnosť podliehajúcu dani z príjmov a dani z pridanej hodnoty – distribúcia kryogénnych médií pre ústavy SAV a zdravotnícke zariadenia, ktorá sa eviduje oddelene od hlavnej činnosti. Výnosy zo zdaňovanej činnosti boli 62 652,89 €. Náklady 41 163,61 € a daň z príjmu právnickej osoby za rok 2024 je 4512,75 €.

Výročnú správu o hospodárení organizácie zostavil(i):

Ing. Jozef Fabian, CSc.
Iveta Tothová

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

Stanovisko správnej rady

bez pripomienok

RNDr. Vladimír Cambel, DrSc. – predseda Správnej rady

Stanovisko vedeckej rady

bez pripomienok

RNDr. Dagmar Gregušová, DrSc. – predsedkyňa Vedeckej rady

Stanovisko dozornej rady

bez pripomienok

Prof. RNDr. Peter Samuely, DrSc. – predseda Dozornej rady

Bratislava 24.06.2025

RNDr. Vladimír Cambel, DrSc.
riaditeľ

**Vladimír
Cambel**

Podepsal

Vladimír Cambel

DN: cn=Vladimír

Cambel, c=SK

Datum:

2025.07.10

10:48:48 +02'00'

[Elektronický podpis riaditeľa/riaditeľky organizácie]

PRÍLOHY K ČASTI B

Príloha B-1 Ročná účtovná zázvierka

ÚČTOVNÁ ZÁVIERKA

neziskovej účtovnej jednotky účtujúcej
v sústave podvojného účtovníctva

zostavená k 3 1 . 1 2 . 2 0 2 4

Daňové identifikačné číslo 2 0 2 0 7 9 5 8 2 1 IČO 0 0 5 9 8 4 2 9 SK NACE 7 2 . 1 9 . 0	Účtovná závierka ☒ riadna ☐ mimoriadna ☐ priebežná (vyznačí sa x)	Mesiac Rok Za obdobie od 1 2 0 2 4 do 1 2 2 0 2 4 Bezprostredne predchádzajúce obdobie od 1 2 0 2 3 do 1 2 2 0 2 3

Priložené súčasti účtovnej závierky

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

Názov účtovnej jednotky

E l e k t r o t e c h n i c k ý ú s t a v S A V , v . v . i .

Sídlo účtovnej jednotky

Ulica

DÚBRAVSKÁ CESTA

Číslo

9

PSČ

Obec

8 4 1 0 4 B R A T I S L A V A

Telefónne číslo

0 2 / 5 9 2 2 2 6 5 8

E-mailová adresa

J O Z E F . F A B I A N @ S A V B A . S K

Zostavená dňa:

0 3 . 0 2 . 2 0 2 5

Schválená dňa:

. . 2 0

Podpisový záznam
štatutárneho orgánu alebo
člena štatutárneho orgánu
účtovnej jednotky:

STRANA AKTÍV	č.r.	Bežné účtovné obdobie			Bezprostredne prechádzajúce účtovné obdobie
		Brutto	Korekcia	Netto	
a	b	1	2	3	4
A. Neobežný majetok spolu r.002+r.009+r.021	1	16 938 972,34	13 817 351,46	3 121 620,88	1 602 863,28
A.I. Dlhodobý nehmotný majetok r.003 až r.008	2	121 124,09	92 632,57	28 491,52	13 424,96
A.I.1. Nehm. výsledky vývojovej a obd. činn.012 -(072+091AÚ)	3	0,00	0,00	0,00	0,00
2. Softvér 013-(073+091AÚ)	4	116 924,09	91 582,45	25 341,64	9 575,00
3. Oceniteľné práva 014-(074+091AÚ)	5	4 200,00	1 050,12	3 149,88	3 849,96
4. Ost. dlhodobý nehm. maj.(018+019)-(078+079+091AÚ)	6	0,00	0,00	0,00	0,00
5. Obstaranie dlhodobého NM (041-093)	7	0,00	0,00	0,00	0,00
6. Poskytnuté preddavky na DNM (051-095AÚ)	8	0,00	0,00	0,00	0,00
A.II. Dlhodobý hmotný majetok r.010 až r.020	9	16 817 848,25	13 724 718,89	3 093 129,36	1 589 438,32
A.II.1. Pozemky (031)	10	154 400,16	0,00	154 400,16	154 400,16
2. Umelecké diela a zbierky (032)	11	0,00	0,00	0,00	0,00
3. Stavby 021-(081+092 AÚ)	12	1 528 859,68	549 448,59	979 411,09	1 002 204,25
4. Samostat. hnut. veci a súb. hnut.vecí 022-(082+092AÚ)	13	14 462 115,34	13 160 858,63	1 301 256,71	432 833,91
5. Dopravné prostriedky 023-(083+092AÚ)	14	14 411,67	14 411,67	0,00	0,00
6. Pestovateľské celky trvalých porastov 025-(085+092AÚ)	15	0,00	0,00	0,00	0,00
7. Základné stádo a ťažné zvieratá 026-(086+092AÚ)	16	0,00	0,00	0,00	0,00
8. Drobný dlhodobý hmotný majetok 028-(088+092AÚ)	17	0,00	0,00	0,00	0,00
9. Ostatný dlhodobý hmotný majetok 029-(089+092AÚ)	18	0,00	0,00	0,00	0,00
10. Obstaranie dlhodobého hmotného majetku (042-094)	19	658 061,40	0,00	658 061,40	0,00
11. Poskytnuté preddavky na DHM (052-095AÚ)	20	0,00	0,00	0,00	0,00
A.III. Dlhodobý finančný majetok súčet r.022 až r.028	21	0,00	0,00	0,00	0,00
A.III.1. Pod. CP a podiely v obch.spol. v ovládanej osobe	22	0,00	0,00	0,00	0,00
2. Pod.CP a podiely v obch. spol. s podst. vplyvom	23	0,00	0,00	0,00	0,00
3. Dlhové CP držané do splatnosti (065-096AÚ)	24	0,00	0,00	0,00	0,00
4. Pôžičky podnikom v skupine a ost. pôžičky	25	0,00	0,00	0,00	0,00
5. Ostat. dlhodobý fin. majetok (069-096AÚ)	26	0,00	0,00	0,00	0,00
6. Obstaranie dlhodobého fin. majetku (043-096AÚ)	27	0,00	0,00	0,00	0,00
7. Poskyt. preddavky na dlhodob fin. majetok(053-096A)	28	0,00	0,00	0,00	0,00

STRANA AKTÍV	č.r.	Bežné účtovné obdobie			Bezprostredne prechádzajúce účtovné obdobie
		Brutto	Korekcia	Netto	
a	b	1	2	3	4
B. OBEŽNÝ MAJETOK SPOLU r.030+r.037+r.042+r.051	29	2 617 097,40	35 708,71	2 581 388,69	2 270 532,88
B.I. Zásoby r.031 až r.036	30	59 800,70	35 708,71	24 091,99	22 631,91
B.I.1. Materiál (112+119)-191	31	59 800,70	35 708,71	24 091,99	22 631,91
2. Nedok. výr. a polotovary vl. výr. (121+122)-(192+193)	32	0,00	0,00	0,00	0,00
3. Výrobky (123-194)	33	0,00	0,00	0,00	0,00
4. Zvieratá (124-195)	34	0,00	0,00	0,00	0,00
5. Tovar (132+139)-139	35	0,00	0,00	0,00	0,00
6. Poskyt. prevádz. preddavky na zás. (314AÚ-391AÚ)	36	0,00	0,00	0,00	0,00
B.II. Dlhodobé pohľadávky r.038 až r.041	37	0,00	0,00	0,00	0,00
B.II.1. Pohľadávky z obch. styku (311AÚ až 314AÚ)-391AÚ	38	0,00	0,00	0,00	0,00
2. Ostatné pohľadávky (315AÚ-391AÚ)	39	0,00	0,00	0,00	0,00
3. Pohľadávky voči účastníkom združení (358AÚ-391AÚ)	40	0,00	0,00	0,00	0,00
4. Iné pohľadávky (335AÚ+373AÚ+375AÚ+378AÚ)-391AÚ	41	0,00	0,00	0,00	0,00
B.III. Krátkodobé pohľadávky r.043 až r.050	42	133 920,93	0,00	133 920,93	1 095 191,60
B.III.1. Pohľadávky z obch. styku (311AÚ až 314AÚ)-391AÚ	43	133 840,80	0,00	133 840,80	43 513,00
2. Ostatné pohľadávky (315AÚ-391AÚ)	44	0,00	0,00	0,00	0,00
3. Zúčt. so Soc. poisť. a zdrav. poisť. (336)	45	0,00	0,00	0,00	0,00
4. Daňové pohľadávky (341 až 345)	46	0,00	0,00	0,00	0,00
5. Pohl. z dôvodu fin. vzťahov k ŠR a rozp.úz.samospr	47	0,00	0,00	0,00	1 051 678,60
6. Pohľadávky voči účastníkom združení (358AÚ-391AÚ)	48	0,00	0,00	0,00	0,00
7. Spojovací účet pri združení (396-391AÚ)	49	0,00	0,00	0,00	0,00
8. Iné pohľadávky (335 AÚ+373AÚ+375AÚ+378AÚ)-391AÚ	50	80,13	0,00	80,13	0,00
B.IV. Finančné účty r.052 až r.056	51	2 423 375,77	0,00	2 423 375,77	1 152 709,37
B.IV.1 Pokladnica (211+213)	52	0,00	0,00	0,00	0,00
2. Bankové účty (221AÚ+261)	53	2 423 375,77	0,00	2 423 375,77	1 152 709,37
3. Bank. účty s dobou viazan.dlhšou ako 1 r. (221AÚ)	54	0,00	0,00	0,00	0,00
4. Krátkodobý fin.	55	0,00	0,00	0,00	0,00
5. Obstaranie krátkodobého fin.majetku (259-291AÚ)	56	0,00	0,00	0,00	0,00
C. ČASOVÉ ROZLIŠENIE SPOLU r.058 a r.059	57	1 410,00	0,00	1 410,00	9 330,23
C.1. Náklady budúcich období (381)	58	1 410,00	0,00	1 410,00	5 419,13
2. Príjmy budúcich období (385)	59	0,00	0,00	0,00	3 911,10
MAJETOK SPOLU r.001+r.029+r.057	60	19 557 479,74	13 853 060,17	5 704 419,57	3 882 726,39

STRANA PASÍV	č.r.	Bežné účtovné obdobie	Bezprostredne prechádzajúce účtovné obdobie
a	b	5	6
A. VLASTNÉ IMANIE r.062+r.067+r.071+r.072	61	488 670,77	514 024,49
A.I. Imanie a fondy r.063 až r.066	62	154 400,16	154 400,16
A.I.1. Základné imanie (411)	63	154 400,16	154 400,16
2. Fondy tvorené podľa osobit. predpisov (412)	64	0,00	0,00
3. Fond reprodukcie (413)	65	0,00	0,00
4. Oceňovacie rozdiely z precenenia kap.účasťín (415)	66	0,00	0,00
A.II. Fondy tvorené zo zisku r.068 až r.070	67	14 900,00	6 000,00
2. Rezervný fond (421)	68	14 900,00	6 000,00
3. Fondy tvorené zo zisku (423)	69	0,00	0,00
4. Ostatné fondy (427)	70	0,00	0,00
A.III. Nevysporiadaný výsledok hosp. min.rokov (+/-428)	71	279 766,90	317 013,98
A.IV. VÝSLEDOK HOSP. ZA	72	39 603,71	36 610,35
B. ZÁVÄZKY r.074+r.078+r.086+r.096	73	346 258,87	239 326,47
B.I.1. REZERVY r.075 až r.077	74	970,30	0,00
2. Rezervy zákonné (451AÚ)	75	0,00	0,00
3. Ostatné rezervy (459AÚ)	76	0,00	0,00
4. Krátkodobé rezervy (323+451AÚ+459AÚ)	77	970,30	0,00
B.II. Dlhodobé záväzky r.079 až r.085	78	12 622,01	115 522,51
B.II.1. Záväzky zo sociálneho fondu (472)	79	12 622,01	13 637,51
2. Vydané dlhopisy (473-255AÚ)	80	0,00	0,00
3. Záväzky z nájmu (474AÚ)	81	0,00	0,00
4. Dlhodobé prijaté preddavky (475)	82	0,00	0,00
5. Dlhodobé nevyfakturované dodávky (476AÚ)	83	0,00	0,00
6. Dlhodobé zmenky na úhradu (478)	84	0,00	0,00
7. Ostatné dlhodobé záväzky (373AÚ+479AÚ)	85	0,00	101 885,00
B.III. Krátkodobé záväzky r.087 až r.095	86	332 666,56	123 803,96
B.III.1. Záväzky z obchodného styku (321 až 326) okrem 323	87	201 376,42	4 613,75
2. Záväzky voči zamestnancom (331+333)	88	0,00	675,03
3. Zúčt. so Soc. poisťovňou a zdrav.poisťovňami (336)	89	0,00	0,00
4. Daňové záväzky (341 až 345)	90	34 786,14	5 912,18
5. Záv. z dôvodu fin. vzťahov k ŠR a rozp.ÚS (346+348)	91	96 504,00	0,00
6. Záv. z upísaných nesplat. CP a vkladov (367)	92	0,00	0,00
7. Záväzky voči účastníkom združení (368)	93	0,00	0,00
8. Spojovací účet pri združení (396)	94	0,00	0,00
9. Ost. záväzky (379+373AÚ+474AÚ+476AÚ+479AÚ)	95	0,00	112 603,00
B.IV. Bankové úvery a iné výpomoci a pôžičky r.097 až r.099	96	0,00	0,00
B.IV.1 Dlhodobé bankové úvery (461AÚ)	97	0,00	0,00
2. Bežné bankové úvery (231+232+461AÚ)	98	0,00	0,00
3. Prijaté krátkodobé finančné výpomoci (241+249)	99	0,00	0,00
C. ČASOVÉ ROZLIŠENIE SPOLU r.101 až r.103	100	4 869 489,93	3 129 375,43
C.I.1. Výdavky budúcich období (383)	101	0,00	0,00
2. Výnosy budúcich období krátkodobé (384AÚ)	102	2 690 539,81	1 555 491,81
3. Výnosy budúcich období dlhodobé (384AÚ)	103	2 178 950,12	1 573 883,62
SPOLU VLASTNÉ IMANIE, ZÁVÄZKY a ÚČTY ČAS.ROZL.	104	5 704 419,57	3 882 726,39

Číslo účtu	Náklady	Číslo riadku	Činnosť			Bezprostredne prechádzajúce účtovné obdobie
			Hlavná nezdaňovaná	Podnikateľská zdaňovaná	Spolu	
a	b		1	2	3	4
501	Spotreba materiálu	1	406 325,43	28 973,41	435 298,84	355 524,48
502	Spotreba energie	2	113 666,05	0,00	113 666,05	73 260,51
504	Predaný tovar	3	0,00	0,00	0,00	0,00
511	Opravy a udržiavanie	4	325 952,21	0,00	325 952,21	38 952,47
512	Cestovné	5	109 797,16	0,00	109 797,16	122 325,36
513	Náklady na reprezentáciu	6	3 887,64	0,00	3 887,64	5 240,00
518	Ostatné služby	7	162 026,53	0,00	162 026,53	220 403,62
521	Mzdové náklady	8	2 579 922,59	9 071,37	2 588 993,96	2 344 698,64
524	Zákonné sociálne poistenie a zdravotné poistenie	9	907 994,40	3 118,83	911 113,23	793 421,45
525	Ostatné sociálne poistenie	10	18 796,98	0,00	18 796,98	13 765,26
527	Zákonné sociálne náklady	11	118 121,14	0,00	118 121,14	115 697,61
528	Ostatné sociálne náklady	12	0,00	0,00	0,00	6 382,00
531	Daň z motorových vozidiel	13	0,00	0,00	0,00	0,00
532	Daň z nehnuteľností	14	177,57	0,00	177,57	142,43
538	Ostatné dane a poplatky	15	3 336,29	0,00	3 336,29	2 599,30
541	Zmluvné pokuty a penále	16	0,00	0,00	0,00	1 872,02
542	Ostatné pokuty a penále	17	441,00	0,00	441,00	0,00
543	Odpísanie pohľadávky	18	0,00	0,00	0,00	0,00
544	Úroky	19	0,00	0,00	0,00	0,00
545	Kurzové straty	20	1 476,74	0,00	1 476,74	997,38
546	Dary	21	0,00	0,00	0,00	0,00
547	Osobitné náklady	22	0,00	0,00	0,00	0,00
548	Manká a škody	23	0,00	0,00	0,00	0,00
549	Iné ostatné náklady	24	188 150,09	0,00	188 150,09	151 670,84
551	Odpisy dlhodobého nehmotného majetku a dlhodobého	25	162 499,76	0,00	162 499,76	169 089,90
552	Zostatková cena predaného dlhodobého nehmotného	26	0,00	0,00	0,00	0,00
553	Predané cenné papiere	27	0,00	0,00	0,00	0,00
554	Predaný materiál	28	0,00	0,00	0,00	0,00
555	Náklady na krátkodobý finančný majetok	29	0,00	0,00	0,00	0,00
556	Tvorba fondov	30	0,00	0,00	0,00	0,00
557	Náklady na precenenie cenných papierov	31	0,00	0,00	0,00	0,00
558	Tvorba a zúčtovanie opravných položiek	32	0,00	0,00	0,00	0,00
561	Poskytnuté príspevky organizačným zložkám	33	0,00	0,00	0,00	0,00
562	Poskytnuté príspevky iným účtovným jednotkám	34	0,00	0,00	0,00	0,00
563	Poskytnuté príspevky fyzickým osobám	35	0,00	0,00	0,00	0,00
565	Poskytnuté príspevky z podielu zaplatenej dane	36	0,00	0,00	0,00	0,00
567	Poskytnuté príspevky z verejnej zbierky	37	0,00	0,00	0,00	0,00
	Účtová trieda 5 spolu r. 01 až r. 37	38	5 102 571,58	41 163,61	5 143 735,19	4 416 043,27

Číslo účtu	Výnosy	Číslo riadku	Činnosť			Bezprostredne prechádzajúce účtovné obdobie
			Hlavná nezdaňovaná	Podnikateľská zdaňovaná	Spolu	
a	b		1	2	3	4
601	Tržby za vlastné výrobky	39	0,00	0,00	0,00	10 000,00
602	Tržby z predaja služieb	40	217 640,00	62 652,89	280 292,89	192 427,35
604	Tržby za predaný tovar	41	0,00	0,00	0,00	0,00
611	Zmena stavu zásob nedokončenej výroby	42	0,00	0,00	0,00	0,00
612	Zmena stavu zásob polotovarov	43	0,00	0,00	0,00	0,00
613	Zmena stavu zásob výrobkov	44	0,00	0,00	0,00	0,00
614	Zmena stavu zásob zvierat	45	0,00	0,00	0,00	0,00
621	Aktivácia materiálu a tovaru	46	0,00	0,00	0,00	0,00
622	Aktivácia vnútroorganizačných služieb	47	0,00	0,00	0,00	0,00
623	Aktivácia dlhodobého nehmotného majetku	48	0,00	0,00	0,00	0,00
624	Aktivácia dlhodobého hmotného majetku	49	0,00	0,00	0,00	0,00
641	Zmluvné pokuty a penále	50	0,00	0,00	0,00	0,00
642	Ostatné pokuty a penále	51	0,00	0,00	0,00	0,00
643	Platby za odpísané pohľadávky	52	0,00	0,00	0,00	0,00
644	Úroky	53	0,00	0,00	0,00	0,00
645	Kurzové zisky	54	893,72	0,00	893,72	27,03
646	Prijaté dary	55	0,00	0,00	0,00	0,00
647	Osobitné výnosy	56	1 563,40	0,00	1 563,40	44 344,44
648	Zákonné poplatky	57	0,00	0,00	0,00	0,00
649	Iné ostatné výnosy	58	82,24	0,00	82,24	7,36
651	Tržby z predaja dlhodobého nehmotného majetku a	59	0,00	0,00	0,00	0,00
652	Výnosy z dlhodobého finančného majetku	60	0,00	0,00	0,00	0,00
653	Tržby z predaja cenných papierov a podielov	61	0,00	0,00	0,00	0,00
654	Tržby z predaja materiálu	62	0,00	0,00	0,00	0,00
655	Výnosy z krátkodobého finančného majetku	63	0,00	0,00	0,00	0,00
656	Výnosy z použitia fondu	64	0,00	0,00	0,00	0,00
657	Výnosy z precenenia cenných papierov	65	0,00	0,00	0,00	0,00
658	Výnosy z nájmu majetku	66	0,00	0,00	0,00	0,00
661	Prijaté príspevky od organizačných zložiek	67	0,00	0,00	0,00	0,00
662	Prijaté príspevky od iných organizácií	68	541 561,03	0,00	541 561,03	410 753,15
663	Prijaté príspevky od fyzických osôb	69	0,00	0,00	0,00	0,00
664	Prijaté členské príspevky	70	0,00	0,00	0,00	0,00
665	Príspevky z podielu zaplatenej dane	71	0,00	0,00	0,00	0,00
667	Prijaté príspevky z verejných zbierok	72	0,00	0,00	0,00	0,00
691	Dotácie	73	4 363 458,37	0,00	4 363 458,37	3 800 294,86
	Účtová trieda 6 spolu r. 39 až r. 73	74	5 125 198,76	62 652,89	5 187 851,65	4 457 854,19
	Výsledok hospodárenia pred zdanením r. 74 - r. 38	75	22 627,18	21 489,28	44 116,46	41 810,92
591	Daň z príjmov	76	0,00	4 512,75	4 512,75	5 200,57
595	Dodatočné odvody dane z príjmov	77	0,00	0,00	0,00	0,00
	Výsledok hospodárenia po zdanení (r. 75 - (r. 76 + r. 77))	78	22 627,18	16 976,53	39 603,71	36 610,35

Čl. I

Všeobecné informácie

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

Zakladateľ: Slovenská akadémia vied.

Dodatkom č.1, k Zakladacej listine, sa s účinnosťou od 1.1.2022 zmenila organizácia na Elektrotechnický ústav Slovenskej akadémie vied, verejná výskumná inštitúcia.

(2) Informácie o členoch štatutárnych orgánov, dozorných orgánov a iných orgánov účtovnej jednotky:

Vedenie ústavu

Riaditeľ ústavu: RNDr. Vladimír Cambel, DrSc.

Zástupca riaditeľa: Ing. Milan Ťapajna, PhD.

Zástupca riaditeľa pre technickú infraštruktúru: Ing. Ján Fedor, PhD.

Vedecká tajomníčka: RNDr. Marianna Španková, PhD.

Správna rada:

RNDr. Vladimír Cambel, DrSc.

Ing. Jozef Fabian, CSc.

Ing. Ján Fedor, PhD.

RNDr. Marianna Španková, PhD.

Ing. Milan Ťapajna, PhD.

Dozorná rada:

prof. RNDr. Peter Samuely, DrSc.

prof. Ing. Viera Stopjaková, PhD.

Ing. Romana Jurkiewiczová

Vedecká rada

Predseda: RNDr. Dagmar Gregušová, DrSc.

Interní členovia:

Ing. Filip Gučmann, PhD. – podpredseda

Ing. Boris Hudec, PhD. – tajomník

doc. Ing. Fedor Gömöry, DrSc

Dr. rer. nat. Martin Hulman

Mgr. Enric Pardo, PhD.

Mgr. Michaela Sojková, PhD.

Externí členovia:

doc. Ing. Peter Bokes, PhD.

Ing. Roman Lupták, PhD.

doc. Ing. Miroslav Mikolášek, PhD.

doc. RNDr. Tomáš Pleceník, PhD.

(3) Opis činnosti, na účel ktorej bola účtovná jednotka zriadená

Prevažujúcou hlavnou činnosťou organizácie je uskutočňovanie výskumu v odboroch vedy a techniky (ďalej tiež „odbory“): Fyzika kondenzovaných látok a akustika (010304), Teoretická elektrotechnika (020201), Elektrické stroje a prístroje (020204), Elektrotechnológie a materiály (020205), Elektroenergetika (020210), Mikroelektronika (020211), Optoelektronika (020212), Senzorika (020216), Fyzikálne inžinierstvo (020404), Nanomateriály (021 1 0 I) a Nanoelektronika (02 1 1 03).

Ďalšími hlavnými činnosťami organizácie sú:

a) zabezpečovanie a správa infraštruktúry výskumu a vývoja

- b) získavanie, spracúvanie a šírenie informácií z oblasti vedy a techniky a poznatkov z vlastného výskumu a vývoja organizácie; spoluvydávanie časopisu Journal of Electrical Engineering (ISSN 1339-309X),
- c) podieľanie sa v spolupráci s vysokou školou na uskutočňovaní študijných programov tretieho stupňa vysokoškolského štúdia a
- d) spolupráca v oblasti vedy a techniky s vysokými školami, ostatnými právnickými osobami uskutočňujúcimi výskum a vývoj.

(4) Priemerný prepočítaný počet zamestnancov a z toho počet vedúcich zamestnancov účtovnej jednotky za účtovné obdobie, za ktoré sa zostavuje účtovná závierka (ďalej len „bežné účtovné obdobie“).

	Bežné účtovné obdobie	Počet hodín vykonávania dobrovoľníckej činnosti
Priemerný prepočítaný počet zamestnancov	84,47	x
z toho počet vedúcich zamestnancov	7	x

(5) Organizačná štruktúra účtovnej jednotky.

Vedenie ústavu

Medzinárodný poradný zbor

Správna rada

Vedecká rada

Dozorná rada

Zástupca v Sneme SAV

Vedecké oddelenia

Oddelenie fyziky a technológie nanoštruktúr

Oddelenie III-V polovodičov

Oddelenie supravodičov

Oddelenie mikroelektroniky a senzoriky

Podporné útvary

Hospodársko správny útvar

Knižnica

Technický útvar

Čl. II

Informácie o účtovných zásadách a účtovných metódach

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

Účtovná jednotka bude nepretržite pokračovať vo svojej činnosti.

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

Verejné výskumné inštitúcie vedú účtovníctvo v súlade s Postupmi účtovania pre účtovné jednotky nezriadené alebo nezaložené na účel podnikania v zmysle konsolidovaného znenia právneho predpisu: „Opatrenie Ministerstva financií Slovenskej republiky zo 14. novembra 2007 č. MF/24342/2007-74“. Zmeny účtovných metód a zásad nastali z dôvodu usmernení MF SR vydaných počas roka 2024 k tomuto predpisu, ktoré správca kapitoly SAV premietol do Pokynov pre všetky VVI, z dôvodu jednotného vykazovania a dodržiavania zásad opatrnosti vzhľadom ku konsolidovanej účtovnej závierke, ktorú správca kapitoly zostavuje.

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

V zmysle tohto usmernenia verejné výskumné inštitúcie, ktoré majú uzavreté s poskytovateľom dotácií viacročné zmluvy o pridelení dotácie účtujú o pohľadávke voči poskytovateľovi dotácie na ročnej báze. Všetky zaúčtované pohľadávky o pridelení dotácií „prísľuby“ na nasledujúce roky boli v roku 2024 odúčtované, čím sa znížila celková hodnota majetku organizácie o 1 051 678,60 €

Pri dodržaní aktuálneho princípu v rámci účtovného obdobia a vykázania nákladov a výnosov z titulu dotácie a jej použitia v rámci príslušného účtovného obdobia, bude VVI účtovať predpis dotácie na strane MD 346 a na strane Dal účtu 384. Následne v priebehu účtovného obdobia v časovej a vecnej súvislosti s účtovaním nákladov bude zúčtovávať účet 384 do výnosov na účte 691 – Dotácie.

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

V zmysle usmernenia č. MF/24342/2007-74 verejné výskumné inštitúcie, ktoré účtujú o refundačných dotáciách, ktoré boli financované z vlastných zdrojov v minulých účtovných obdobiach, ak sa takáto refundačná dotácia nepoužije v období, v ktorom bola prijatá, VVI je v súlade s §45 ods. 8 opatrenia povinná ju časovo rozlíšiť a preúčtovať prostredníctvom účtu 384 – Výnosy budúcich období.

Nakoľko refundácie nie sú vlastným zdrojom, ale transferom, ktorý je VVI pri jeho následnom používaní povinná uvádzať na mesačnej báze vo výkazoch FIN-12 a súčasne zahrnúť do tabuľky č. 191 odsúhlasovacieho formulára konsolidačného balíka, bude VVI účtovať tieto dotácie na účte 384 – Výnosy budúcich období a následne v časovej a vecnej súvislosti s účtovaním nákladov ich bude zúčtovávať na účte 691 – Dotácie.

(3) Spôsoby ocenenia jednotlivých položiek majetku a záväzkov.

- dlhodobý nehmotný majetok - ocenený obstarávacou cenou,
- dlhodobý hmotný majetok - ocenený obstarávacou cenou,
- zásoby - ocenené obstarávacou cenou. Opravné položky k zásobám sa tvoria na základe zásady opatrnosti, vyjadrujú prechodné zníženie ich hodnoty.
- pohľadávky - ocenené menovitou hodnotou,
- krátkodobý finančný majetok - ocenený menovitou hodnotou,
- záväzky, vrátane rezerv, dlhopisov, pôžičiek a úverov - ocenené menovitou hodnotou,
- majetok obstaraný z transferov - ocenený obstarávacou cenou,
- majetok zistený ako inventarizačný prebytok - ocenený reálnou cenou - hodnota zistená oceňovacím modelom

Účtovná jednotka sa od 10.7.2024 stala platiteľom dane z pridanej hodnoty z obratu, z dôvodu predaja kvapalných plynov. V tomto prípade si uplatňujeme aj nárok na odpočet DPH. Naďalej sme však platcom registrovaným podľa § 7 pri nadobudnutí tovaru a služieb zo zahraničia. V prípadoch, keď dodávateľia sú platiteľmi DPH, fakturovaná DPH je súčasťou ocenenia dlhodobého majetku, zásob a nákladov.

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

Druh dlhodobého majetku	Doba odpisovania	Sadzba odpisov	Odpisová metóda
Softvér, stroje, prístroje, zariadenia	6	16,66%	Rovnomerná
Stroje, prístroje, zariadenia	8	12,50%	Rovnomerná
Stroje, prístroje, zariadenia	10	10 %	Rovnomerná
Stroje, prístroje, zariadenia	12	8,33%	Rovnomerná
Budovy	50	2%	Rovnomerná

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

Opravné položky boli vytvorené v predchádzajúcich účtovných obdobiach k zásobám v sume 35 708,71 €. Rezervy v roku 2024 boli tvorené ako krátkodobé rezervy, na opakujúce sa dodávky kvapalného hélia, ktoré neboli vyfakturované k 31.12.2024 v sume 970,30 € na účte 323.

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

Zmenou postupov účtovania refundačných dotácií, ktoré boli financované z vlastných zdrojov v minulých účtovných obdobiach a boli zúčtované do výnosov bolo potrebné upraviť výsledok hospodárenia minulých rokov o významnú sumu 64 957,43 €. Táto sumu sme odúčtovali z výsledku hospodárenia a zúčtovali na účet 384, tak aby bolo možné následne v časovej a vecnej súvislosti s účtovaním nákladov zúčtovať ich na účte 691 – Dotácie.

Čl. III

Informácie, ktoré dopĺňajú a vysvetľujú údaje v súvahe

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

Obstaraním SW pre elektronovú litografiu vznikli prírastky dlhodobého nehmotného majetku s v sume 20 322 €.

Prírastky dlhodobého hmotného majetku v sume 1 012 395,96 €. Najvýznamnejšie položky : PECVD depozič. systém v hodnote 252 000 €, zariadenie na meranie povrchov v hodnote 180 000 €, vzduchotechnika pre laboratória 89 445,77 €, zariadenie na meranie kvantového transp. 74 400 €, laserová trubica pre excimer. laser Compex Pro 62 354,88 €, šoková komora 62 220 €, FastHall zariadenie s prísl. 60 516 €.

Úbytok vyradeného majetku bol v hodnote 27 541,29 €.

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

Účtovná jednotka neeviduje.

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

Účtovná jednotka neeviduje.

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

Účtovná jednotka neeviduje.

(5) Údaje o štruktúre dlhodobých pôžičiek.

Účtovná jednotka neeviduje.

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

Druh majetku, ku ktorému sa tvorí opravná položka	Stav opravnej položky na konci bezprostredne predchádzajúceho účtovného obdobia	Tvorba opravnej položky (zvýšenie)	Zúčtovanie opravnej položky (použitie, zrušenie)	Stav opravnej položky na konci bežného účtovného obdobia
zásoby	35 708,71			35 708,71

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

Druh a opis významných pohľadávok	Hlavná nezdaňovaná činnosť	Zdaňovaná činnosť
Pohl. z dôvodu fin. vzťahov k ŠR (346)		
Pohl. z projektov zo zahraničia (315)		
Pohľadávky z obch. styku (311,314)	128 582,40	5 258,40

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

Pohľadávky	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
- do uplynutia lehoty splatnosti	1 094 761,60	133 914,93
- po uplynutí lehoty splatnosti	430	6,-
Spolu	1 095 191,60	133 920,93

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

Náklady budúcich období sú v nevýznamnej sume 1 410 €.

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

	Stav na začiatku bežného účtovného obdobia	Prírastky (+)	Úbytky (-)	Presuny (+, -)	Stav na konci bežného účtovného obdobia
Vlastné imanie					
Základné imanie	154 400,16				154 400,16
z toho:					
- prioritný majetok	154 400,16				154 400,16
Fondy tvorené zo zisku					
Rezervný fond	6 000,-		27 710,35	36 610,35	14 900,-
Výsledok hospodárenia					
Nevysporiadaný výsledok hospodárenia minulých rokov	317 013,98	27 710,35	64 957,43		279 766,90
Výsledok hospodárenia účtovného obdobia	36 610,35	39 603,71		-36 610,35	39 603,71
Spolu	514 024,49	67 314,06	92 667,78	0	488 670,77

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

Rezervný fond bol vytvorený zo zisku z roku 2023. V roku 2024 bolo použitých 27 710,35 € na čiastočné krytie strát z minulých rokov..

Opis fondov tvorených podľa osobitných predpisov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Prírastky	Úbytky	Stav na konci bežného účtovného obdobia
Rezervný fond	6 000,-	36 610,35	27 710,35	14 900,-

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

Názov položky	Bezprostredne predchádzajúce účtovné obdobie
Účtovný zisk	36 610,35
Rozdelenie účtovného zisku	

Prídel do rezervného fondu	36 610,35
Prevod do nevysporiadaného výsledku hospodárenia minulých rokov	-27 710,35

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

Druh rezervy	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Tvorba rezerv	Použitie rezerv	Zrušenie rezerv	Stav na konci bežného účtovného obdobia
Zákonné rezervy spolu					
Nevyfakturované dodávky	4,73		4,73		
Ostatné rezervy spolu		970,30			970,30
Rezervy spolu	4,73	970,30	4,73		970,30

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

Druh a opis významných položiek záväzkov	Hlavná nezdaňovaná činnosť	Zdaňovaná činnosť
Záväzky daň z príjmov PO		612,33
Záväzky z obchodného styku (321)	199 120,28	2 256,14
Záväzky z projektov APVV krátkodobé (346)	96 504,-	
Záväzky zo sociálneho fondu (472)	12 622,01	

Významná položka záväzkov je faktúra za Leštiaci a lapovací stroj s príslušenstvom v sume 166 706,32 €, ďalej prijatá platba od agentúry APVV na 3 zazmluvnené projekty, ktorá bola uhradená vopred na rok 2025.

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

Záväzky	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
- do uplynutia lehoty splatnosti	239 326,47	329 203,15
- po uplynutí lehoty splatnosti		17 055,72
Spolu	250 705,31	346 258,87

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

Sociálny fond	Suma
Stav k prvému dňu bežného účtovného obdobia	13 637,51
Tvorba na ťarchu nákladov	28 689,34
Čerpanie	27 673,74
Stav k poslednému dňu bežného účtovného obdobia	12 622,01

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

Účtovná jednotka neeviduje.

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

Účtovná jednotka neeviduje.

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

Položky výnosov budúcich období - dlhodobé z dôvodu	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
dlhodobého majetku obstaraného z verejných zdrojov	1 271 484,89	1 896 682,32
prijatý, nepoužitý kapitálový transfer zo ŠR	11 711,-	11,60
prijatý, nepoužitý kapitálový transfer z PO		76 379,02
dlhodobého majetku obstaraného zo súkromných zdrojov	17 418,73	205 877,18
transferov od subjektov verejnej správy na roky 2025 -2027	273 269,-	
Spolu	1 573 883,62	2 178 950,12

Položky výnosov budúcich období - krátkodobé z dôvodu	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
dotácie zo štátneho rozpočtu a z prostriedkov Európskej únie	188 110,90	730 286,53
transferov od subjektov verejnej správy na roky 2024	527 255,94,-	
od subjektov mimo VS		23 929,33
grantov zo zahraničia	840 124,97	1 936 323,95
Spolu	1 555 491,81	2 269 539,81

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

Účtovná jednotka neeviduje.

Čl. IV

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

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

Druh a opis tržieb	Hlavná nezdaňovaná činnosť	Zdaňovaná činnosť
Kvapalné plyny		62 652,89

PO so súkromnou sférou Bizzcom	178 000,-	
Merania a analýzy, príprava vzoriek	39 640,-	
Iné: dobropisy, kurzové zisky, predaj odpadu ...	2 539,36	

Významnou sumu tržieb generuje spolupráca s firmou Bizzcom, kde sa podieľame na riešení projektu z PO.

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

Druh a opis významných súm výnosov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
Výnosy z bežných transferov od subjektov mimo verejnej správy	340 584,35	504 937,40
Výnosy z kapitálových transferov od subjektov mimo verejnej správy	63 168,80	6401,75
Sponzorské na konferenciu IEEE	7 000,-	
Podiel z predaja patentu	44 344,44	

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

Druh a opis významných súm dotácií a grantov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
Inštitucionálna forma podpory zo ŠR	2 909 425,19	3 327 284,60
Dotácie – bežný transfer od agentúry APVV	297 684,45	627 061,-
Dotácie – bežný transfer projekty z EÚ	149 610,62	303 903,70
Dotácie – bežný transfer od ostatných subjektov VS	371 963,70	1 513 802,44
Dotácie – kapitálový transfer zo ŠR	40 344,66	7 100,-
Dotácie – kapitálový transfer projekty z EÚ	31 266,24	
Výkonnostná zmluva		282 311,-
Zahraničné projekty zdroj 35		1 909 593,84

Bežný transfer od APVV sú prijaté finančné prostriedky na rok 2024 aj na rok 2025.

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

Účtovná jednotka neeviduje.

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

Druh a opis významných položiek nákladov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
Materiál (elektro, chemikálie, drobný majetok)	355 524,48	435 298,84
Energie (el. energia, voda)	73 260,51	113 666,05
Opravy a udržiavanie (výtahy, zariadenia)	38 952,47	325 952,21
Cestovné (tuzemské, zahraničné)	122 325,36	109 797,16
Ostatné služby(SW, Školenia, konferencie, merania, patenty)	220 403,62	162 026,53
Mzdové náklady	2 344 698,64	2 588 993,96
Zákonné sociálne poistenie a zdravotné poistenie	793 421,45	911 113,23
Ostatné sociálne poistenie – zahraničie, DDS	13 765,26	18 796,98
Zákonné sociálne náklady (PN, SF, stravné)	115 697,61	118 121,14
Iné ostatné náklady (štipendiá)	151 670,84	188 150,09
Odpisy dlhodobého nehmotného majetku a dlhodobého hmotného majetku	169 089,90	162 499,76

Významnou mierou stúpili náklady na opravy a udržiavanie, pretože bolo nevyhnutné opraviť laboratórne priestory, podlahy, stúpačky, sociálne zariadenia, opraviť a kalibrovať optické mikroskopy, vykonať generálny servis na vákuovej zostave atď.

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

Účtovná jednotka neeviduje.

Čl. V

Opis údajov na podsúvahových účtoch

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

Druh a opis položiek podsúvahových účtov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
Prenajatý dlhodobý majetok		175 479,77
Drobný hmotný a nehmotný majetok neodpisovaný		1 136 659,94

Čl. VI

Ďalšie informácie

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

Účtovná jednotka neeviduje.

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

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

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

Účtovná jednotka neeviduje.

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

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

Účtovná jednotka neeviduje.

b) povinnosť z opčných obchodov,

Účtovná jednotka neeviduje.

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

Účtovná jednotka má povinnosť voči zahraničnému partnerovi z grantu, ktorého zmluva bola uzavretá v roku 2023. Použitie finančných prostriedkov tohto grantu je naviazané na jednotlivé etapy realizácie stavebných úprav a verejného obstarávania pre vybavenie laboratórií. Obstarávanie prístrojov a stavebné úpravy sa nepodarilo ukončiť k 31.12.2024 a finančné prostriedky určené na tento účel sme preniesli do roku 2025.

28.6.2024 podpísal minister financií dokumenty, ktoré v zmysle zákona o rozpočtových pravidlách stanovujú limit verejných výdavkov na rok 2024. V zmysle zákona budeme mať problém tieto nevyčerpané prostriedky použiť v roku 2025, nakoľko sú prenesené z roku 2024 a nie sú zahrnuté do limitu verejných výdavkov.

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

Účtovná jednotka neeviduje.

e) iné povinnosti.

Účtovná jednotka neeviduje.

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

Účtovná jednotka neeviduje.

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

Účtovná jednotka neeviduje.