Elektrotechnický ústav SAV

Správa o činnosti organizácie SAV za rok 2015

Bratislava
január 2016

Obsah osnovy Správy o činnosti organizácie SAV za rok 2015

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PRÍLOHY

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1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Elektrotechnický ústav SAV
Riaditeľ: RNDr. Vladimír Cambel, DrSc.
1. zástupca riaditeľa: doc. Ing. Fedor Gömöry, DrSc.
2. zástupca riaditeľa: Ing. Ján Fedor, PhD
Vedecký tajomník: Ing. Milan Ťapajna, PhD.
Predseda vedeckej rady: RNDr. Dagmar Gregušová, DrSc.
Člen snemu SAV: doc. Ing. Fedor Gömöry, DrSc.
Adresa: Dúbravská cesta 9, 841 04 Bratislava

http://www.elu.sav.sk

Tel.: 02/5922 2555
Fax:
E-mail: dominika.polakova@savba.sk
Názvy a adresy detašovaných pracovísk:

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

Vedúci detašovaných pracovísk:

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

Typ organizácie: Príspevková od roku 1993

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	K	K		K do 35 rokov		F	P	T
		M	Ž	M	Ž			
Celkový počet zamestnancov	114	84	30	22	6	108	87,94	68,67
Vedeckí pracovníci	55	49	6	11	1	50	44,41	42,61
Odborní pracovníci VŠ	30	19	11	10	5	29	19,01	15,84
Odborní pracovníci ÚS	20	12	8	1	0	20	17,92	10,22
Ostatní pracovníci	9	4	5	0	0	9	6,6	0

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2015 (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 31.12.2015 (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
M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2015)

Rodová skladba	**Pracovníci s hodnosťou**				**Vedeckí pracovníci v stupňoch**		
	DrSc.	**CSc./PhD.**	**prof.**	**doc.**	**I.**	**IIa.**	**IIb.**
Muži	11	37	0	5	13	22	14
Ženy	1	5	0	0	1	2	3

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

Veková štruktúra (roky)	**< 31**	**31-35**	**36-40**	**41-45**	**46-50**	**51-55**	**56-60**	**61-65**	**> 65**
Muži	12	6	8	3	2	3	12	12	10
Ženy	3	1	0	0	2	2	6	0	0

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2015

	Kmeňoví zamestnanci	**Vedeckí pracovníci**	**Riešitelia projektov**
Muži	49,6	50,5	49,6
Ženy	50,5	46,7	48,0
Spolu	49,9	50,1	49,3

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

V r. 2015 bolo 8 vedeckých oddelení ústavu zredukovaných na 4:

- Oddelenie fyziky a technológie nanoštruktúr (vedúci odd. Dr. rer. nat. Martin Hulman)
- Oddelenie III-V polovodičov (vedúci odd. Ing. Ján Kuzmík, DrSc.)
- Oddelenie supravodičov (vedúci odd. Ing. Pavol Kováč, DrSc.)
- Oddelenie mikroelektroniky a senzoriky (vedúci odd. Mgr. Zaťko Bohumír, PhD.)

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Počet domácich projektov riešených v roku 2015

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2015 (v €)		
	A	B	A		B
			spolu	pre organi-záciu	
1. Vedecké projekty, ktoré boli r. 2015 financované VEGA	16	3	124624	124624	8103
2. Projekty, ktoré boli r. 2015 financované APVV	11	7	665745	485204	117530
3. Projekty OP ŠF	1	5	1354501	620684	928587
4. Projekty centier excelentnosti SAV	0	0	-	-	-
5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	0	0	-	-	-

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

Tabuľka 2b Počet návrhov domácich projektov podaných v roku 2015

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2015	-	5	5
2. Projekty výziev OP ŠF podané r. 2015	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2015

Tabuľka 2c Počet medzinárodných projektov riešených v roku 2015

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2015 (v €)		
			A		B
	A	B	spolu	pre organi-záciu	
1. Projekty 7. Rámcového programu EÚ	0	2	-	-	50421
2. Multilaterálne projekty v rámci vedeckých programov COST, ERANET, INTAS, EUREKA, ESPRIT, PHARE, NATO, UNESCO, CERN, IAEA, ESF (European Science Foundation), ERDF a iné	1	9	-	-	22992
3. Projekty v rámci medzivládnych dohôd o vedecko-technickej spolupráci	1	0	-	-	-
4. Bilaterálne projekty	3	0	-	-	-
5. Podpora medzinárodnej spolupráce z národných zdrojov (MVTS, APVV,...)	1	9	6250	6250	35667
6. Iné projekty financované alebo spolufinancované zo zahraničných zdrojov	0	0	-	-	-

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

2.2.2. Medzinárodné projekty v 7. RP EÚ a Horizont 2020 podané v roku 2015

Tabuľka 2d Počet projektov 7. RP EÚ a Horizont 2020 v roku 2015

	A	B
Počet podaných projektov v 7. RP EÚ		
Počet podaných projektov Horizont 2020		3

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

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

2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

V r. 2015 sa skončilo prvé programovacie obdobie Štrukturálnych fondov. Dokončená bola technologická linka pre polovodiče a technologická linka pre supravodiče. Realizovaná bola v rámci Kompetenčného centra ŠF aj obnova laboratórií na Ústave merania SAV.

V ďalšom období by sme chceli rozšíriť prístrojové vybavenie najmä o diagnostické zariadenia, ale aj o doplnenie existujúcich zariadení pre obe linky, polovodičovú a supravodičovú. Ide o zariadenia – pre polovodičovú linku: naparovacie zariadenie Temescal, upgrade ALD systému, upgrade PLD systému, dotačný zdroj pre MOCVD, kontaktovačka, upgrade TEM-u atď. Pre supravodivú linku: zdroj striedavého prúdu, chladiaci okruh s N2 a He, VTS SQUID magnetometer, cryocooler, systém na bezkontaktné meranie deformácií, laserový analyzátor častíc, rotačná kovačka, prietokový He kryostat s reguláciou atď. Pre diagnostiku: vákuovateľný FTIR spektrometer, Keithley 4200SCS, cryo probe stanica, štandardné AFM Bruker alebo Asylium research, atď. Takisto je potrebná kompletná rekonštrukcia elektrorozvodne na ElÚ SAV.

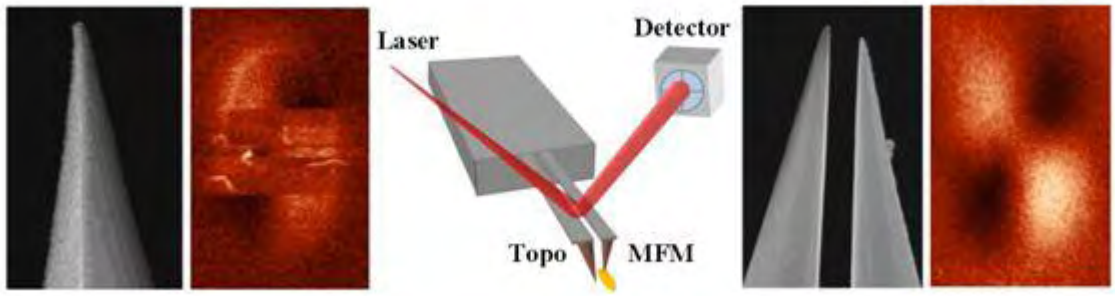
Z hľadiska stavebných úprav ElÚ SAV podporuje rozvoj Piešťan – opravu budovy a obnovu mnohých laboratórií. Celkové poslanie týchto laboratórií by malo byť skôr diagnostického charakteru, ale rozhodne treba aj obnoviť čisté priestory a ďalšie existujúce laboratóriá.

2.3. Najvýznamnejšie výsledky vedeckej práce (maximálne 1000 znakov + 1 obrázok)

2.3.1. Základný výskum

Názov výsledku: Magnetické stavy v nanomagnetoch so zlomenou symetriou
Ústav: Elektrotechnický
Mená riešiteľov: J. Tóbik, T. Ščepka, M. Precner, J. Šoltýs, J. Fedor, T. Polakovič, R. Kúdela, J. Dérer, M. Kulich, V. Cambel (všetci ElÚ SAV) a G. Karapetrov (Drexel Univ., USA)
Projekty v rámci ktorých sa výsledok dosiahol: *APVV-0088-12 NANOMAG*

V práci vyšetrujeme magnetické stavy vo feromagnetických objektoch pomocou simulácii a experimentálne. V teoretickej časti skúmame pôvod magnetického stavu nanoobjektov [1]. Dynamika magnetického stavu pre objekty so zníženou symetriou vykazuje asymetrický časový vývoj. Ten vysvetľujeme pomocou jednospinového modelu, čím otvárame cestu ku kontrole magnetických stavov budúcich nanosúčiastok a k ich praktických aplikáciam.
V experimentálnej časti sme a) vyvinuli novú skenovaciu metódu založenú na dvojitom hrote [2] (DT-MFM), b) vyšetrovali sme stav nanomagnetu pomocou mikro-hallovskej magnetometrie [3].
DT-MFM zobrazovanie využíva dva hroty umiestnené < 1 μm od seba, pričom jeden (nemagnetický) meria topografiu nanomagnetu, a ten druhý zobrazuje jeho magnetické pole. Magnetický hrot sa nikdy nedotkne magnetickej vzorky a teda neporuší jej magnetický stav.
Magnetometria Hallovou sondou ukázala, ako sa mení dynamika magnetického stavu nanomagnetu s uhlom vonkajšieho magnetického poľa a s teplotou.



Obr. DT-MFM. Jednoduchý hrot ruší magnetický stav elipsy, dvojitý nie. V strede je layout experimentu.

Výstupy:
[1] TÓBIK, Jaroslav - CAMBEL, Vladimír - KARAPETROV, Goran. Asymmetry in time evolution of magnetization in magnetic nanostructures. In Scientific Reports, 2015, vol. 5, 012301. (5.578 - IF2014). (2015 - Current Contents, Scopus, WOS). ISSN 2045-2322. Typ: ADCA

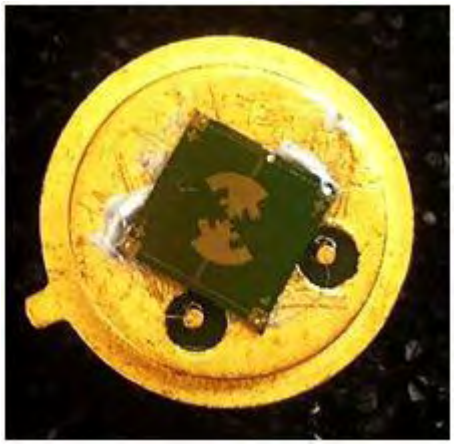
[2] PRECNER, Marian - FEDOR, Ján - ŠOLTÝS, Ján - CAMBEL, Vladimír. Dual-tip magnetic force microscopy with suppressed influence on magnetically soft samples. In Nanotechnology, 2015, vol. 26, 55304. (3.821 - IF2014). (2015 - Current Contents). ISSN 0957-4484. TYP: ADCA

[3] ŠČEPKA, Tomáš - POLAKOVIČ, T. - ŠOLTÝS, Ján - TÓBIK, Jaroslav - KULICH, Miloslav - KÚDELA, Róbert - DÉRER, Ján - CAMBEL, Vladimír. Individual vortex nucleation/annihilation in ferromagnetic nanodots with broken symmetry observed by micro-Hall magnetometry. In AIP Advances, 2015, vol. 5, 117205. (1.524 - IF2014). (2015 - Current Contents). ISSN 2158-3226. Typ: ADCA

2.3.2. Aplikačný typ

Názov výsledku: Detektor terahetzových vĺn
Ústav: Elektrotechnický
Mená riešiteľov: Š. Chromik, T. Lalinský, I. Rýger, G. Vanko, and P. Lobotka
Projekty v rámci ktorých sa výsledok dosiahol: *European Metrological Research Project „Microwave and terahertz metrology for homeland security“ (detektor bol vyvinutý a vyrobený na objednávku SMU Bratislava).*

Hoci pásmo THz vĺn je aplikačne veľmi významné (medicína, detekcia výbušnín, monitorovanie ovzdušia, telekomunikácie, atď.), k širokému využitiu THz žiarenia zatiaľ nedochádza, pretože nie sú ľahko dostupné súčiastky ani na ich generáciu, ani detekciu. Preto sme v rámci európskeho EMRP projektu „Mikrovlnná a terahertzová metrológia pre bezpečnosť domácností“ navrhli a zhotovili detektor THz žiarenia, ktorý pracuje na bolometrickom princípe (dopadajúce THz žiarenie spôsobí zmenu elektrického odporu detektora). Náš detektor je výnimočný tým, že je miniatúrny a nepotrebuje obvyklé chladenie na nízke teploty. Jeho konštrukcia je založená na skúsenostiach troch oddelení ústavu s MEMS štruktúrami a nanášaním tenkých vrstiev perovskitových materiálov vo vákuu. Mikrobolometre boli úspešne testované v prestížnom metrologickom ústave PTB v Berlíne na frekvenciách do 1,4 THz. O technológiu prejavil záujem NIST (Boulder, USA).



Detektor terahertzového žiarenia navrhnutý a zhotovený v ElÚ SAV pozostáva z kremíkového čipu, na ktorom je zlatá logaritmicko-periodická anténa, v strede ktorej je bolometrický prvok – disk z mangánového perovskitu o priemere 20 μm. Dopadajúce THz žiarenie sa absorbuje, čím sa disk ohreje, čo vyvolá zmenu jeho elektrického odporu. Aby bolo ohriatie čo najväčšie, celý systém sa nachádza na membráne hrubej iba 2 μm.

Výstupy:
CHROMIK, Štefan - ŠTRBÍK, Vladimír - DOBROČKA, Edmund - ROCH, T. - ROSOVÁ, Alica - ŠPANKOVÁ, Marianna - LALINSKÝ, Tibor - VANKO, Gabriel - LOBOTKA, Peter - RALBOVSKÝ, M. - CHOLEVA, P. LSMO thin films with high metal-insulator transition temperature on buffered SOI substrates for uncooled microbolometers. In Applied Surface Science, 2014, vol. 312, p. 30-33. (2.538 - IF2013). (2014 - Current Contents). ISSN 0169-4332. Typ: ADCA

Chromik, **Š**., Štrbik, V., Španková, M., **Lalinský**, **T**., **Vanko**, **G**., **Lobotka**, **P**., Beňačka, Š., and Li, J.: Advanced perovskite thin films and structures for applications. In: Progress in Applied Surface, Interface and Thin Film Science (SURFINT-SREN IV). Florence 2015. Vyžiadaná prednáška.

Chromik, **Š**., **Lalinský**, **T**., **Rýger**, **I**., **Vanko**, **G**., **Lobotka**, **P**., Darmo, J., Mikulášek, T., Pítra, K., Raida, Z., Zehetner, J., and Vrabček, P.: Uncooled microbolometer for THz radiation. In: Final Workshop of EMRP New07 Project on THz Security. Davos 2015.

Lalinský, **T**., **Chromik**, **Š**., **Lobotka**, **P**., **Rýger**, **I**., Zehetner, J., Dzuba, J., and **Vanko**, **G**.: Uncooled MEMS detector of terahertz radiation. In: 41st International Conference on Micro-and Nano-Engineering. - MNE 2015. Hague 2015.

Názov výsledku: Computer modelling of 1 MVA and 40 MVA full superconducting transformers
Mená rešiteľov: E. Pardo, J. Šouc, L. Frolek
Ústav: Elektrotechnický
Projekty v rámci ktorých sa výsledok dosiahol:

- *Research Partnership Agreement with the Robinson Research Institute (RRI), Victoria University of Wellington, New Zealand: Numerical modelling of AC loss in a 40 MVA transformer.*
- *European development of superconducting tapes: Integrating novel materials and architectures into cost effective processes for power applications and magnets (EUROTAPES). 7th framework program project with contract number NMP3-LA-2012-280432.*

Power transformers using superconducting REBCO coated conductors have many potential advantages over conventional transformers. The ac loss in the windings complicates the cryogenics and reduces the efficiency, and hence it needs to be predicted in its design by numerical calculations. In his work, we modeled a 1 MVA 11 kV/415 V 3-phase transformer. Agreement between calculations and experiments suppors the validity of further modeling for a larger tentative 40 MVA 110 kV/11 kV design. The research is leaded to optimize the 40 MVA transformer and assess its economical feasibility. The modelling has been possible thanks to the previous development of advanced computational tools (EUROTAPES project), which is the only one worldwide able to model the high number of turns in transformers (around 2000).

This work has been done under a contract with RRI. Research has been conducted not only for RRI but also Fabrum Inc., which is a company specialized in cryogenics for superconducting devices.

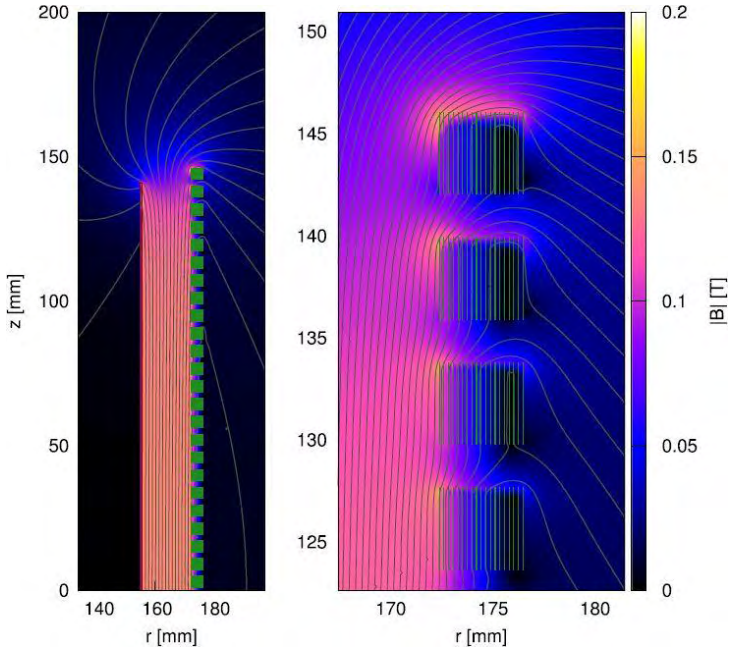


Figure 1: Magnetic field magnitude and magnetic field lines for the fully superconducting 1 MVA 11 kV/415 V 3-phase transformer. Green segments represent the cross-section of the high-voltage winding and the red frame represents the low-voltage winding section. The right figure shows a detail close to the top end of the high-voltage winding. The radial magnetic field vanishes in most of the volume of the superconducting tapes composing the high-voltage winding.

Výstupy:

PARDO, Enric - STAINES, M. - JIANG, Z. - GLASSON, N. Ac loss modelling and measurement of superconducting transformers with coated-conductor Roebel-cable in low-voltage winding. In Superconductor Science and Technology, 2015, vol. 28, 114008. (2.325 - IF2014). (2015 - Current Contents). ISSN 0953-2048. Typ: ADCA

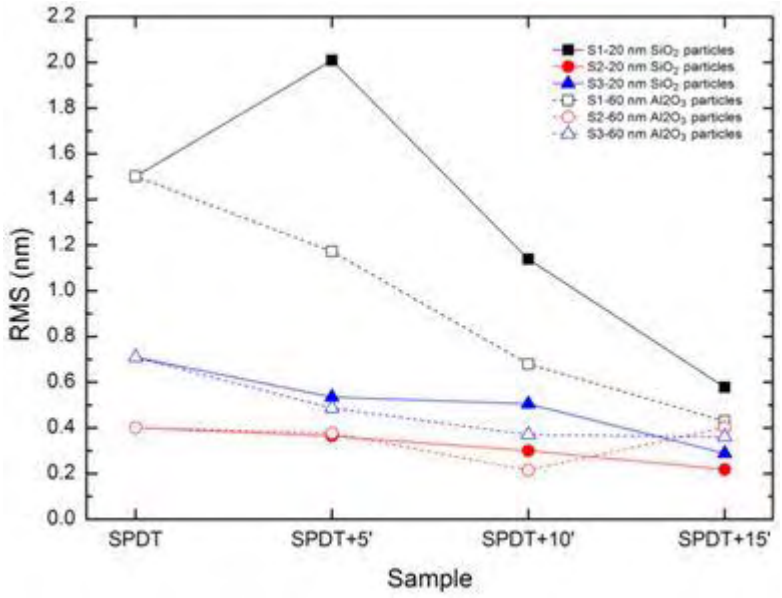
PARDO, Enric - ŠOUC, Ján - FROLEK, Lubomír. Electromagnetic modelling of superconductors with a smooth current–voltage relation: variational principle and coils from a few turns to large magnets. In Superconductor Science and Technology, 2015, vol. 28, 044003. (2.325 - IF2014). (2015 - Current Contents). ISSN 0953-2048. Typ: ADCA

Staines, M., **Pardo**, **E**., Jolliffe, L., Pannu, M., and Glasson, N.: Prospects for HTS transformers in the grid: AC loss and economics. In: EUCAS 2015. Lyon 2015.

2.3.3. Medzinárodné vedecké projekty

Názov: Nano-obrábanie s následným dolešťovaním aktívnych povrchov rtg kryštálovej optiky
Ústav: Elektrotechnický
Mená riešiteľov: D. Korytár, Z. Zápražný (ElÚ SAV), M. Jergel, Y. Halahovets, P. Šiffalovič, C. Ferrari, P. Vagovič, E. Dobročka (ElÚ SAV)
Projekty v rámci ktorých sa výsledok dosiahol: *Research and Development Centre for Advanced X-ray Technologies, ITMS code 26220220170, APVV-14-0745, APVV-0308-11, VEGA 2/0004/15, COST MP1203, COST MP1207*

Pre dosiahnutie vysokej kvality aktívnych povrchov v kanálikoch rtg monochromátorov sme aplikovali pokrokové nanoobrábanie s použitím špeciálne tvarovaného monokryštalického diamantového nástroja. Umožňuje dosiahnuť vysokú presnosť tvaru, avšak povrchová drsnosť a podpovrchové defekty sú zvyčajne niekoľkonásobne vyššie ako hodnoty dosahované planárnym chemomechanickým leštením v technológii polovodičov.
Po diamantovom nanoobrábaní sme následným chemickým alebo chemomechanickým doleštením emulziami s nanočasticami SiO_2 (20 nm) a Al_2O_3 (60 nm) znížili drsnosť povrchu na 0.3 nm rms a znížili sme aj podpovrchové porušenie kryštálovej mriežky na úroveň nepozorovateľnú pomocou Ramanovej spektroskopie. Podobne mapovanie recipročného priestoru vysokorozlišovacou rtg difraktometriou ukázalo potlačenie neželateľných tzv. surface grating truncation rods. Tieto prvé výsledky boli dosiahnuté v spolupráci s FÚ SAV, v medzinárodnej spolupráci s DESY Hamburg, MU Brno, IMEM CNR Parma a v rámci riešených projektov a sú vysoko hodnotené odberateľom výsledkov.



Porovnanie rms (root mean squared) drsnosti povrchov Ge obrábaných diamantom a dolešťovaných 5, 10 a 15 min leštivom s SiO_2 a Al_2O_3 nanočasticami.

Výstupy:
ZÁPRAŽNÝ, Zdenko - KORYTÁR, Dušan - JERGEL, Matej - ŠIFFALOVIČ, Peter - DOBROČKA, Edmund - VAGOVIČ, Patrik - FERRARI, C. - MIKULÍK, P. - DEMYDENKO, Maksym - MIKLOŠKA, M. Calculations and surface quality measurements of high-asymmetry angle x-ray crystal monochromators for advanced x-ray imaging and metrological applications. In Optical Engineering, 2015, vol. 54, 035101. (0.954 - IF2014). (2015 - Current Contents). ISSN 0091-3286. Typ: ADCA

ZÁPRAŽNÝ, Zdenko - KORYTÁR, Dušan - JERGEL, Matej - ŠIFFALOVIČ, Peter - HALAHOVETS, Yuriy - MIKLOŠKA, M. Nano-machining for x-ray crystal optics. In Proceedings of the 3th International Conference on Advances in Electronic and Photonic Technologies : ADEPT 2015. Eds. D. Pudiš, I. Lettrichová, J. Kováč, jr. - Žilina : Univ. Žilina, 2015, p. 243-246. ISBN 978-80-554-1033-3. Typ: AFD

KORYTÁR, Dušan - MIKLOŠKA, M. - HALAHOVETS, Yuriy - JERGEL, Matej - ŠIFFALOVIČ, Peter - ZÁPRAŽNÝ, Zdenko - FERRARI, C. Nanomachining of hard X-ray crystal optics. In DGaO Proceedings, 2015, tagung 116, c26. ISSN 1614-8436. Typ: ADEB

HODAS, Martin - ŠIFFALOVIČ, Peter - PELLETTA, Marco - HALAHOVETS, Yuriy - JERGEL, Matej - MAJKOVÁ, Eva - KORYTÁR, Dušan - ZÁPRAŽNÝ, Zdenko - VAGOVIČ, Patrik. Passivation of ge crystals by B4C thin layer deposition. In APCOM 2015 : Proceedings of the 21st International Conference on Applied Physics of Condensed Matter. Eds. J. Vajda, I. Jamnický ; rev. J. Sitek, P. Ballo et al. - Bratislava : STU, 2015, p. 180-183. ISBN 978-80-227-4373-0. Typ: AFD

2.4. Publikačná činnosť (úplný zoznam je uvedený v Prílohe C)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	A Počet v r. 2015/ doplnky z r. 2014	B Počet v r. 2015/ doplnky z r. 2014	C Počet v r. 2015/ doplnky z r. 2014
1. Vedecké monografie vydané v domácich vydavateľstvách (AAB, ABB)	**0 / 0**	**0 / 0**	**0 / 0**
2. Vedecké monografie vydané v zahraničných vydavateľstvách (AAA, ABA)	**0 / 0**	**0 / 0**	**0 / 0**
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	**0 / 0**	**0 / 0**	**0 / 0**
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	**0 / 0**	**0 / 0**	**0 / 0**
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	**0 / 0**	**0 / 0**	**0 / 0**
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	**1 / 0**	**0 / 0**	**0 / 0**
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	**0 / 0**	**0 / 0**	**0 / 0**
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	**0 / 0**	**0 / 0**	**0 / 0**
9. Vedecké a odborné práce evidované v CCC a vedecké práce evidované vo WOS Core Collection a Scopus (ADCA, ADCB, ADDA, ADDB, ADMA, ADMB, ADNA, ADNB, CDCA, CDCB, CDDA, CDDB, BDCA, BDCB, BDDA, BDDB)	**74 / 5**	**0 / 0**	**1 / 0**
10. Vedecké a odborné práce v časopisoch neevidovaných v CCC, WoS Core Collection, SCOPUS (ADEA, ADEB, ADFA, ADFB, CDEA, CDEB, CDFA, CDFB, BDE, BDEA, BDEB, BDF, BDFA, BDFB)	**3 / 0**	**0 / 0**	**0 / 0**
11. Vedecké a odborné práce v zborníkoch			
a/ recenzované práce a publikované pozvané príspevky (AECA, AECB, AEDA, AEDB, AFA, AFB, BEC, BED)	**24 / 0**	**0 / 0**	**0 / 0**

b/ nerecenzované práce (BEE, BEF, CEC, CED)	**0 / 0**	**0 / 0**	**0 / 0**
12. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	**1**	**0**	**0**
13. Ostatné vydané periodiká	**0**	**0**	**0**
14. Vydané alebo editované zborníky z vedeckých podujatí (FAI)	**0 / 0**	**0 / 0**	**0 / 0**
15. Práce uverejnené na internete (GHG)	**0 / 0**	**0 / 0**	**0 / 0**
16. Preklady vedeckých a odborných textov (EAJ)	**0 / 0**	**0 / 0**	**0 / 0**
17. Heslá v *Encyklopédii Beliana* a iných encyklopédiách a terminologických slovníkoch (BDA, BDB)	**0 / 0**	**0 / 0**	**0 / 0**

A - pracovisko SAV je uvedené ako pracovisko (adresa) autora, alebo je súčasťou kolaborácie alebo iného združenia, ktoré je uvedené ako pracovisko (adresa) autora
B - pracovisko SAV nie je na publikácii uvedené, pretože prameň údaj o pracovisku autora neobsahuje, práca ale vznikla na pracovisku SAV
C - pracovisko SAV je uvedené ako materské pracovisko autora odlišné od pracoviska, na ktorom práca vznikla (napr. „on leave...“, „permanent address...“, „present address...“)

Tabuľka 2f Ohlasy

OHLASY	**A** **Počet v r. 2014/ doplnky z r. 2013**	**B** **Počet v r. 2014/ doplnky z r. 2013**
Citácie vo WoS Core Collection (1.1, 2.1)	931 / 41	24 / 6
Citácie v SCOPUS (1.2, 2.2)	60 / 4	3 / 0
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	0 / 0	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	0 / 0	0 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0	0 / 0

A - pracovisko SAV je uvedené ako pracovisko (adresa) autora, alebo je súčasťou kolaborácie alebo iného združenia, ktoré je uvedené ako pracovisko (adresa) autora, alebo pracovisko SAV nie je na publikácii uvedené, pretože prameň údaj o pracovisku autora neobsahuje, práca ale vznikla na pracovisku SAV
B - pracovisko SAV je uvedené ako materské pracovisko autora odlišné od pracoviska, na ktorom práca vznikla (napr. „on leave...“, „permanent address...“, „present address...“)

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2g Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	78
Prednášky a vývesky na domácich vedeckých podujatiach	26

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

Dobročka, **E.**, Novák, P., Búc, D., Harmatha, L., and Murín, J.: X-ray diffraction analysis of residual stresses in textured ZnO thin films. In: Progress in Applied Surface, Interface and Thin Film Science (SURFINT-SREN IV). Florence 2015.

Fröhlich, **K**.: Atomic layer deposited films for next generation resistive switching memories. In: 13th Inter. Baltic Conf. on Atomic Layer Deposition - BALTIC ALD 2015. Tartu 2015.

Chromik, **Š**., Štrbik, V., Španková, M., Lalinský, T., Vanko, G., Lobotka, P.,Beňačka, Š., and Li, J.: Advanced perovskite thin films and structures for applications. In: Progress in Applied Surface, Interface and Thin Film Science (SURFINT-SREN IV). Florence 2015.

Korytár, **D**.,Zápražný, Z., Dobročka E.,Vagovič P., Baumbach, T., Cecilia, A., Hamann, E., Végsö, K., Šiffalovič, P., Jergel, M., Halahovets, Yu., Majková, E., Mikulík, P., Áč, V., and Ferrari, C.: Rtg kryštálová optika. In: 298. rozhovory: Krystalografie a rtg metody studia materiálů. Praha 2015.

Kuzmík, **J**.: Indium-containing heterostructures for ultra-high speed transistors and logic. In: 11th Topical Workshop on Heterostructure Microelectronics. Takayama 2015.

Osvald, **J**.: Computational methods in semiconductor structure parameter analysis. In: Inter. Semicond. Sci Technol. Conf. 2015 - ISSTC 2015. Izmir 2015.

Ťapajna, **M**., Gregušová, D., and Kuzmík, J.: GaN metal-oxide-semiconductor HEMTs: selected physical aspects and characterization. In: 47th Inter. Conf. on Solid State Devices and Mater. - ISSDM. Sapporo 2015.

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

Cambel, **V**.: Magnetic states in nanomagnets with broken symmetry. Univ. Drexel 2015.

Osvald, **J**.: III-N MESHEFT and MISHEFT structures. - role of metal and dielectric interfaces with semiconductor. Green Technol. Res. Center, Chang Gung Univ. Taoyuan, Taiwan 2015.

Osvald, **J**.: III-N MESHEFT and MISHEFT structures. - role of metal and dielectric interfaces with semiconductor. National Tsing Hua Univ. Taipei, Taiwan 2015.

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

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2015

2.7.1. Vynálezy, na ktoré bol udelený patent

2.7.2. Prihlásené vynálezy

Na Slovensku - počet patentov: 1

Číslo PV: PP 50063-2015
Mená autorov: Šouc Ján, Gömöry Fedor, Vojenčiak Michal, Soloviov Mykola, Kováč Ján, Štefánik Stanislav
Názov vynálezu: Supravodivá cievka a napájací supravodivý kábel
Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV

2.7.3. Predané licencie

2.7.4. Realizované patenty

Finančný prínos pre organizáciu SAV v roku 2015 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 2h Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Lobotka Peter	APVV	2
	MVTS	2
Zaťko Bohumír	APVV	1
	MVTS	1

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Iné informácie k vedeckej činnosti.

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

3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2015

Forma	Počet k 31.12.2015				Počet ukončených doktorantúr v r. 2015					
	Doktorandi				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
Interná zo zdrojov SAV	6	3	3	0	0	0	0	0	0	0
Interná z iných zdrojov	2	0	0	0	5	0	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0
Spolu	8	3	3	0	5	0	0	0	0	0
Súhrn	11		3		5		0		0	

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b Počty preradení

Z formy	Interná z prostriedkov SAV	Interná z prostriedkov SAV	Interná z iných zdrojov	Interná z iných zdrojov	Externá	Externá
Do formy	**Interná z iných zdrojov**	**Externá**	**Interná z prostriedkov SAV**	**Externá**	**Interná z prostriedkov SAV**	**Interná z iných zdrojov**
Počet	0	0	0	0	0	0

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2015 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnosť
Ing. Jaroslav Dzuba	interné štúdium hradené z iných zdrojov	9 / 2011	8 / 2015	5.2.13 elektronika	Ing. Gabriel Vanko PhD., Elektrotechnický ústav SAV	Fakulta elektrotechniky a informatiky STU

Ing. Filip Gucmann	interné štúdium hradené z iných zdrojov	9 / 2011	12 / 2015	5.2.13 elektronika	RNDr. Dagmar Gregušová DrSc., Elektrotechnický ústav SAV	Fakulta elektrotechniky a informatiky STU
Mgr. Ján Kováč	interné štúdium hradené z iných zdrojov	9 / 2010	4 / 2015	5.2.48 fyzikálne inžinierstvo	Ing. Ján Šouc CSc., Elektrotechnický ústav SAV	Fakulta elektrotechniky a informatiky STU
Ing. Pavol Kunzo	interné štúdium hradené z iných zdrojov	9 / 2010	4 / 2015	5.2.48 fyzikálne inžinierstvo	Ing. Peter Lobotka CSc., Elektrotechnický ústav SAV	Fakulta elektrotechniky a informatiky STU
Ing. Ivan Rýger	interné štúdium hradené z iných zdrojov	9 / 2011	8 / 2015	5.2.13 elektronika	Ing. Tibor Lalinský DrSc., Elektrotechnický ústav SAV	Fakulta elektrotechniky a informatiky STU

Zoznam interných a externých doktorandov je uvedený v Prílohe A.

3.4. Zoznam akreditovaných študijných programov s uvedením VŠ

Tabuľka 3d Zoznam akreditovaných študijných programov s uvedením univerzity/vysokej školy a fakulty

Názov študijného programu (ŠP)	Názov študijného odboru (ŠO)	Číslo ŠO	Univerzita/vysoká škola a fakulta
Fyzika kondenzovaných látok a akustika	fyzika kondenzovaných látok a akustika	4.1.3	Fakulta matematiky, fyziky a informatiky UK
Mikroelektronika	elektronika	5.2.13	Fakulta elektrotechniky a informatiky STU
Fyzikálne inžinierstvo	fyzikálne inžinierstvo	5.2.48	Fakulta elektrotechniky a informatiky STU

Tabuľka 3e Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií študijných programov doktorandského štúdia	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnosť alebo vyšší kvalifikačný stupeň
RNDr. Vladimír Cambel, DrSc. (elektronika)	doc. Ing. Fedor Gömöry, DrSc. (Elektrotechnická fakulta ŽU)	Ing. Jaroslav Dzuba, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
doc. RNDr. Edmund Dobročka, CSc. (fyzika kondenzovaných látok a akustika, elektrotechnológie	doc. Ing. Fedor Gömöry, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	RNDr. Dagmar Gregušová, DrSc. (DrSc., Slovenská Akadémia Vied)

a materiály, elektronika, fyzikálne inžinierstvo)		
Ing. František Dubecký, CSc. (fyzika kondenzovaných látok a akustika, elektrotechnológie a materiály, elektronika, fyzikálne inžinierstvo)	doc. Ing. Jozef Novák, DrSc. (Fakulta elektrotechniky a informatiky STU)	Ing. Filip Gucmann, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
Ing. Ján Fedor, PhD (fyzikálne inžinierstvo)		Mgr. Ján Kováč, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
Ing. Karol Fröhlich, DrSc. (elektrotechnológie a materiály, elektronika, fyzikálne inžinierstvo)		Ing. Pavol Kunzo, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
doc. Ing. Fedor Gömöry, DrSc. (fyzikálne inžinierstvo)		Ing. Ivan Rýger, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
RNDr. Dagmar Gregušová, DrSc. (elektronika, fyzikálne inžinierstvo)		
RNDr. Štefan Haščík, PhD. (elektronika)		
Ing. Štefan Chromik, DrSc. (fyzika kondenzovaných látok a akustika, elektrotechnológie a materiály, fyzikálne inžinierstvo)		
RNDr. Dušan Korytár, CSc. (fyzikálne inžinierstvo)		
Ing. Pavol Kováč, DrSc. (elektrotechnológia a materiály, fyzika kondenzovaných látok a akustika, fyzikálne inžinierstvo)		
Ing. Ján Kuzmík, DrSc. (elektronika)		
Ing. Tibor Lalinský, DrSc. (elektronika)		
Ing. Peter Lobotka, CSc. (fyzika kondenzovaných látok a akustika, elektrotechnológie a materiály, fyzikálne inžinierstvo)		
doc. RNDr. Martin Moško, DrSc. (fyzika kondenzovaných látok a akustika)		
doc. Ing. Jozef Novák, DrSc. (elektronika)		
Ing. Jozef Osvald, DrSc. (elektronika, fyzikálne inžinierstvo)		

Ing. Jozef Pitel, CSc. (fyzikálne inžinierstvo)		
Ing. Alica Rosová, CSc. (fyzikálne inžinierstvo)		
Ing. Ján Šoltýs, PhD (fyzikálne inžinierstvo)		
Ing. Ján Šouc, CSc. (elektrotechnológie a materiály, fyzikálne inžinierstvo)		
RNDr. Marianna Španková, PhD (fyzikálne inžinierstvo)		
Ing. Milan Ťapajna, PhD. (elektronika, fyzikálne inžinierstvo)		
Ing. Gabriel Vanko, PhD. (elektronika, fyzikálne inžinierstvo)		
Ing. Ivo Vávra, CSc. (fyzika kondenzovaných látok a akustika, elektrotechnológie a materiály, fyzikálne inžinierstvo)		
Mgr. Bohumír Zaťko, PhD (fyzika kondenzovaných látok a akustika, elektrotechnológie a materiály, fyzikálne inžinierstvo)		

3.5. Údaje o pedagogickej činnosti

Tabuľka 3f Prednášky a cvičenia vedené v roku 2015

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	2	0	1	0
Celkový počet hodín v r. 2015	142	0	4	0

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

Tabuľka 3g Aktivity pracovníkov na VŠ

1.	**Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác**	16
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	17
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	13
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	16
5.	**Počet oponovaných dizertačných a habilitačných prác**	2
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	2
7.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác**	1
8.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác**	3
9.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách**	2

3.6. Iné dôležité informácie k pedagogickej činnosti

Pracovníci ústavu pôsobili v komisiách SKVH za ElÚ SAV:

a. **Prírodné vedy – fyzikálne vedy -** fyzika kondenzovaných látok a akustika – 010304

Členovia stálej komisie
- **doc. RNDr. Silvester Takács, DrSc., ElÚ SAV v Bratislave,**

b. **Technické vedy – elektrotechnika, automatizácia a riadiace systémy**

- teoretická elektrotechnika – 020201
- elektrické stroje a prístroje – 020204
- výroba a rozvod elektrickej energie – 020209

Predseda komisie "ad hoc"
- **Ing. Fedor Gömöry, DrSc., ElÚ SAV v Bratislave**

c. **Technické vedy – elektrotechnika, automatizácia a riadiace systémy**

- elektrotechnológie a materiály – 020205
- mikroelektronika – 020211
- optoelektronika – 020212
- rádioelektronika – 020213

Predseda stálej komisie
- **Ing. Karol Fröhlich, DrSc., ElÚ SAV v Bratislave**

Členovia stálej komisie
- **Ing. Pavol Kováč, DrSc., ElÚ SAV v Bratislave,**
- **Ing. Ján Kuzmík, DrSc., ElÚ SAV v Bratislave**

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2015 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2016 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

ASDAM 2016 Smolenice, (Gabriel Vanko, 02/ 5922 2739, gabriel.vanko@savba.sk)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Typ výboru	Programový	Organizačný	Programový i organizačný
Počet členstiev	5	1	0

4.2. Členstvo a funkcie v medzinárodných orgánoch

4.2.1. Členstvo a funkcie v medzinárodných vedeckých spoločnostiach, úniách a národných komitétoch SR

doc. Ing. Fedor Gömöry, DrSc.

Research Evaluation Network pri DG Research European Commission (funkcia: člen)

Ing. Pavol Kováč, DrSc.

Academic Committee for International Congress on Advanced Materials (funkcia: člen)
Danish Royal Research Council (funkcia: člen)

Ing. Jozef Pitel, CSc.

Správna rada Európskeho spoločného podniku pre ITER a rozvoj energie jadrovej syntézy

(Fusion for Energy – F4E) (funkcia: zástupca SR)

Ing. Alica Rosová, CSc.

Československá mikroskopická spoločnosť (funkcia: člen)

Ing. Ivo Vávra, CSc.

Československá mikroskopická spoločnosť (funkcia: podpredseda)

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

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov

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

MAD s Inštitútom fyziky PAV - Poľsko, Varšava – riešenie projektu (Príprava a vlastnosti supravodivých, manganitových a dielektrických vrstiev pre moderné elektronické aplikácie), v rámci riešenia projektu sa uskutočnila návšteva Ing. Š. Chromika, DrSc., kde sa realizovali spoločné experimenty. Z Inštitútu fyziky navštívili oddelenie Dr. I. Zaytseva a Dr. P. Gierlowski a realizovali sa experimenty v rámci spoločného projektu. Dr. Zaytseva mala prednášku s názvom: Superconductor-insulator transition in selected films of conventional and high temperature superconductors.

V rámci MAD sa uskutočnila pracovná cesta Ing. Š. Chromika, DrSc., na Univerzitu Beersheva, Izrael (prof. G. Jung) a na Racah Institute of Physics, The Hebrew University of Jerusalem (Jeruzalem), kde prebehli a prebiehajú analýzy vzoriek pripravené na ElÚ, merania vzoriek tenkých vrstiev Nb nanesených na cylindrickú podložku.

V rámci MAD (SAV-BAV) sa uskutočnila pracovná cesta RNDr. V. Štrbíka, CSc. a Mgr. M. Sojkovej, PhD spojená s účasťou na konferencii VEIT 2015 (19th International Summer School on Vacuum, Electron and Ion Technologies, 21-25 September, 2015, Sozopol). Na konferencii boli prezentované 3 príspevky, ktoré budú publikované v časopise.
Spoločné publikácie:
Nurgaliev, T., Blagoev, B., **Štrbik, V**., **Chromik**, **Š**., and **Sojková, M**.: Investigation of resistive properties of HTS/manganite bilayers. Accepted in J. of Physics: Conference Series
Sojková, M., Štrbik, V., **Chromik**, **Š**., **Španková, M**., Nurgaliev, T., and Blagoev, B.: Fabrication of hybrid thin film structures from HTS and CMR materials. Accepted in J. of Physics: Conference Series

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

5. Vedná politika

6. Spolupráca s univerzitami/vysokými školami, štátnymi a neziskovými inštitúciami okrem aktivít uvedených v kap. 2, 3, 4

6.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Fakulta matematiky, fyziky a informatiky UK
Druh spolupráce (spoločné pracovisko alebo iné): iné
Začiatok spolupráce: 1992
Zameranie: Výchova študentov, spoločná príprava a riešenie projektov a aplikačný ch riešení
Zhodnotenie: Výsledkom spolupráce sú spoločné projekty, publikácie a PhD študenti.

Názov univerzity/vysokej školy a fakulty: Fakulta elektrotechniky a informatiky STU
Druh spolupráce (spoločné pracovisko alebo iné): iné
Začiatok spolupráce: 1969
Zameranie: Výchova študentov, spoločná príprava a riešenie projektov a aplikačných riešení
Zhodnotenie: Výsledkom spolupráce sú spoločné projekty, publikácie a PhD študenti.

Názov univerzity/vysokej školy a fakulty: České vysoké učení technické v Praze, Česká republika
Druh spolupráce (spoločné pracovisko alebo iné): Zmluva o spolupráci v rámci spoločného výskumu
Začiatok spolupráce: 2014
Zameranie: Spoločný výskum a testovanie semiizolačných GaAs detečných pixelových štruktúr pomocou R/O čipov typu Timepix2 vyvinutých v CERNe
Zhodnotenie: Bolo pripravených 8 typov pixelových detektorov na báze semiizolačného GaAs, ktoré boli technológiou bumpbondigu prepojené s vyčítavacími čipmi typu Timepix2. Veľkosť jednotlivých pixelov detektora je 55 – 220 μm. Matica detektorov obsahuje 64 × 64 až 256 – 256 pixelov. Tieto pixelové detekčné systémy sú vyvíjané najmä pre rtg zobrazovanie, ako aj „tracking“ vysokoenergetických častíc. Použitím vhodného konvertora je možné použiť maticové senzory aj pre detekciu neutrónov a zobrazovanie pomocou neutrónov, ako doplnková metóda k rtg zobrazovaniu.

Názov univerzity/vysokej školy a fakulty: Temple University, Philadelphia, USA
Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko, semináre: rozvoj laboratórií, výskum, stáže našich pracovníkov/študentov
Začiatok spolupráce: 2012
Zameranie: výskum 2D materiálov, skenovacie techniky, nízke teploty, UHV systémy
Zhodnotenie: sľubne sa rozvíjajúca spolupráca

Názov univerzity/vysokej školy a fakulty: University of Vienna, Rakúsko
Druh spolupráce (spoločné pracovisko alebo iné): výskum
Začiatok spolupráce: 2014
Zameranie: výskum 2D materiálov, grafén, elektrónová mikroskopia
Zhodnotenie: sľubne sa rozvíjajúca spolupráca

Názov univerzity/vysokej školy a fakulty: Drexel University, Philadelphia, USA
Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko, semináre: rozvoj laboratórií, výskum, stáže našich pracovníkov/študentov
Začiatok spolupráce: 2012
Zameranie: výskum 2D materiálov, skenovacie techniky, nízke teploty, UHV systémy
Zhodnotenie: sľubne sa rozvíjajúca spolupráca

6.2. Významné aplikácie výsledkov výskumu v spoločenskej praxi alebo vyriešenie problému pre štátnu alebo neziskovú inštitúciu

6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

7. Spolupráca s aplikačnou a hospodárskou sférou okrem aktivít uvedených v kap. 2, 3, 4

7.1. Spoločné pracoviská s aplikačnou sférou

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov kontraktu: Research Partnership Agreement, Numerical modelling of AC loss in a 40 MVA transformer
Partner(i): Robinson Research Institute, Victoria University of Wellington, Wellington, New Zealand
Začiatok spolupráce (v súlade s podpísaným kontraktom): 2013
Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2015
Objem získaných prostriedkov v bežnom roku (€): 16857
Stručný opis výstupu/výsledku: Modelling of 1 MVA and 40 MVA superconducting transformers. The research directly lead to a publication in Supercond. Sci. and Technol., and was presented at four international conferences in 2014 (1 conference) and 2015 (3 conferences)

Názov kontraktu: Development of exploratory InN-channel transistors
Partner(i): University Oulu, Fínsko
Začiatok spolupráce (v súlade s podpísaným kontraktom): 2015
Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2015
Objem získaných prostriedkov v bežnom roku (€): 9000
Stručný opis výstupu/výsledku: Kalibrácia fyzikálnych vlastností InNN vrstiev

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

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

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

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

Meno pracovníka	Názov orgánu	Funkcia
RNDr. Vladimír Cambel, DrSc.	Komisia pre SUJV Dubna pri vláde SR	člen
doc. Ing. Fedor Gömöry, DrSc.	SKVH	člen
	Akreditačná komisia	člen Pracovnej skupiny pre elektrotechniku
Ing. Peter Lobotka, CSc.	Programový výbor NMP EÚ	delegát
Ing. Jozef Pitel, CSc.	Medzirezortná koordinačná skupina na koordináciu úloh vyplývajúcich z článkov Zmluvy o založení spoločenstva EURATOM	expert
	Poradca Ministerstva školstva, vedy, výskumu a športu SR v oblasti európskej politiky vo VaT a pre tvorbu a pripomienkovanie rámcových programov EK pre výskum, technický rozvoj a demonštračné aktivity	expert

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

Názov expertízy: Atestačná komisia univerzít
Adresát expertízy: Helénska Republika
Spracoval: Ing. Ján Kuzmík, DrSc.

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
doc. Ing. Fedor Gömöry, DrSc.	Grantová agentúra MŠ - APVV	Člen Rady pre technické vedy
doc. Ing. Jozef Novák, DrSc.	Grantová agentúra MŠ - APVV	Predseda Rady pre program SUSPP

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

9. Vedecko-organizačné a popularizačné aktivity

9.1.Vedecko-popularizačná činnosť

9.1.1. Najvýznamnejšia vedecko-popularizačná činnosť pracovníkov organizácie SAV

Tabuľka 9a Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Ing. Michal Blaho	Ing. Filip Gucmann, PhD., Ing. Milan Ťapajna, PhD.	TL	Naparovanie elektrónovým lúčom alebo ako si vyrobiť naozaj rýchly tranzistor	Oko 21 (2015), č. 4, s. 10	14.12.2015
Mgr. Jana Brndiarová		TL	Možností je naozaj veľa, stačí ich len objaviť!	Oko 21 (2015) č. 2, s. 11	2015
doc. RNDr. Edmund Dobročka, CSc.		PB	Symetria rovinných štruktúr	Fakulta architektúry STU	26.2.2015
Ing. Jaroslav Dzuba, PhD.	G. Vanko	TL	Reaktívne iónové leptanie	Oko 21 (2015), č. 3, s. 12	2015
doc. Ing. Fedor Gömöry, DrSc.		RO	Nočná pyramída - Fyzik Fedor Gömöry zaujal svetové médiá svojím vynálezom - plášťom neviditeľnosti.	Rádio Slovensko	2.2.2015
doc. Ing. Fedor Gömöry, DrSc.		TL	Plášť neviditeľnosti	Nota Bene	2015
doc. Ing. Fedor Gömöry, DrSc.		PB	Ráno na eFeMku	Rádio FM	18.5.2015
doc. Ing. Fedor Gömöry, DrSc.		TV	Slovenský neviditelný plášť	ČT24 - http://www.ceskatelevize.cz/ivysilani/10441287766-studio-6-vikend/215411010120124/obsah/376408-profil-fedor-gomory	24.1.2015
doc. Ing. Fedor Gömöry, DrSc.		TL	Slovenský vedec roka: Nemôžeme len tak používať to, čo už iní vymysleli	Denník N	9.6.2015
doc. Ing. Fedor Gömöry, DrSc.		PB	Vlastnosti látok s nulovým elektrickým odporom	TEDxBratislava 2015	4.7.2015
doc. Ing. Fedor Gömöry, DrSc.	Mgr. Ján Kováč, PhD.	PB	Energia pomedzi prsty	ELAM klub, Bratislava	7.12.2015
Ing. Stanislav Hasenöhrl		TL	Chemická depozícia z pár organokovových zlúčenín – MOCVD	Oko 21 (2015), č. 2, s. 10	2015
Ing. Pavol Kováč, DrSc.	Ľ. Kopera	TL	Supravodivosť prichádzajúca na pomoc veternej energii	Oko 21 (2015), č. 1, s. 12	2015
Mgr. Agáta Laurenčíková, PhD.	Ing. Filip Gucmann, PhD.	TL	Noc, keď výskumníci ožívajú Noc výskumníkov 2015 – Festival vedy	Oko 21 (2015), č. 3, s. 13	2015

doc. Ing. Jozef Novák, DrSc.		TL	Nanostĺpikový lesík a antireflexia	Green business Revue (2015), č. 1, s. 51	2015
Mgr. Katarína Sečianska		TL	Čistota, ale nie obyčajná	Oko 21 (2015), č. 1, s. 13	2015
Mgr. Michaela Sojková, PhD.		TL	ElÚ SAV: Dvere otvorené	Oko 21 (2015), č. 4, s. 11	14.12.2015
Ing. Ján Šoltýs, PhD		TL	Litografia využívajúca elektrónový zväzok	Oko 21 (2015) č. 2, Prvácky špeciál, s. 9	2015
Doc. RNDr. Silvester Takács, DrSc.		TL	Ad: Vede prospejú noví ľudia i pravidlá	Sme	4.3.2015
Ing. Milan Ťapajna, PhD.		PB	OZ. Nexteria Career vision	Gymnázium C. S. Lewisa v Bratislave	13.10.2015
Ing. Milan Ťapajna, PhD.		PB	Rozhodnutie:Kam po výške	SjF STU	6.10.2015
Ing. Gabriel Vanko, PhD.		TV	Veda na dosah	TA3	9.6.2015

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

9.1.2. Súhrnné počty vedecko-popularizačných činností organizácie SAV

Tabuľka 9b Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	6	tlač	14	TV	2
rozhlas	1	internet	0	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

9.2. Vedecko-organizačná činnosť

Tabuľka 9c Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov

9.3. Účasť na výstavách

Názov výstavy: Trans Tech burza – 3 príspevky
Miesto konania: Bratislava
Dátum: 29.9.2015

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9d Programové a organizačné výbory národných konferencií

Typ výboru	Programový	Organizačný	Programový i organizačný
Počet členstiev	0	0	0

9.5. Členstvo v redakčných radách časopisov

Ing. Karol Fröhlich, DrSc.

Material Science in Semiconductor Processing (funkcia: člen)

Ing. Štefan Chromik, DrSc.

ICRN Condensed Matter Physics (funkcia: člen)

Ing. Pavol Kováč, DrSc.

Superconductor Science and Technology (funkcia: člen)

Ing. Tibor Lalinský, DrSc.

Open Electrical and Electronic Engineering Journal (funkcia: člen)

Ing. Peter Lobotka, CSc.

Beliana (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.

IEEE Transactions on Applied Superconductivity (funkcia: technical editor)

9.6. Činnosť v domácich vedeckých spoločnostiach

doc. RNDr. Edmund Dobročka, CSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen revíznej komisie)

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

V rámci Dňa otvorených dverí 2015 ústav navštívilo 439 žiakov so svojimi pedagógmi z: Cirkevná ZŠ Narnia, Cirkevná SOŠE Vazovova, SjF STU, SPŠE Zochova, SPŠE Hálova, SPŠE Adlera, Gymnázium Metodova, ZŠ Melčice , Materská škola Sv. Jur.

Ústav sa tradične zapojil do akcií v rámci už deviateho ročníka festivalu vedy – Európska Noc výskumníkov, ktorý sa uskutočnil 25. septembra 2015.
Vo vedeckom stánku v Starej tržnici prezentoval z oblasti supravodivosti ukážky levitácie supravodivých objektov v silnom magnetickom poli tvorenom permanentnými magnetmi (uloženými v stole s rozmermi 1 x 2 m) tvoriacimi dráhu pre voľný pohyb týchto objektov a ďalšie zaujímavé poznatky z danej oblasti.
Z oblasti elektroniky vysvetľovali vedeckí pracovníci technológiu prípravy novej generácie tranzistorov na báze GaN pre aplikácie v radarovej a satelitnej technike, či pre vysokoefektívne adaptéry a meniče, ktoré si mohli záujemci „zblízka“ pozrieť cez mikroskop. Z oblasti fotovoltaiky ukázali solárny koncentrátor (Fresnelova šošovka), ktorý umožňuje sústrediť slnečné žiarenie na malú plochu slnečného článku, ktorý takto dokáže vyrobiť dostatočné množstvo elektrického prúdu pre rozsvietenie LED diódy (svetloemitujúca dióda). Vysvetlili aj technológiu prípravy tandemových slnečných článkov na báze III-V polovodičov.
Do panelovej diskusie Doprava budúcnosti bol prizvaný doc. Ing. F. Gömöry, DrSc.

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		8252
z toho	knihy a zviazané periodiká	7296
	audiovizuálne dokumenty	0
	elektronické dokumenty (vrátane digitálnych)	144
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	812
Počet titulov dochádzajúcich periodík		16
z toho zahraničné periodiká		9
Ročný prírastok knižničných jednotiek		10
v tom	kúpou	4
	darom	0
	výmenou	0
	bezodplatným prevodom	6
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		7296

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu		35
z toho	odborná literatúra pre dospelých	27
	výpožičky periodík	0
	prezenčné výpožičky	6
MVS iným knižniciam		0
MVS z iných knižníc		0
MMVS iným knižniciam		0
MMVS z iných knižníc		0
Počet vypracovaných bibliografií		0
Počet vypracovaných rešerší		312

10.3. Používatelia

Tabuľka 10c Užívatelia

Registrovaní používatelia	102
Návštevníci knižnice spolu (bez návštevníkov podujatí)	14

10.4. Iné údaje

Tabuľka 10d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	1
Náklady na nákup knižničného fondu v €	3554

10.5. Iné informácie o knižničnej činnosti

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

doc. Ing. Fedor Gömöry, DrSc.

- člen výboru

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

Ing. Karol Fröhlich, DrSc.

- člen Predsedníctva a VR

11.3. Členstvo vo vedeckých kolégiách SAV

RNDr. Vladimír Cambel, DrSc.

- VK SAV pre elektroniku, materiálový výskum a technológie (člen)

Ing. Karol Fröhlich, DrSc.

- VK SAV pre elektroniku, materiálový výskum a technológie (člen)

Ing. Pavol Kováč, DrSc.

- VK SAV pre elektroniku, materiálový výskum a technológie (predseda)

doc. RNDr. Martin Moško, DrSc.

- VK SAV pre matematiku, fyziku a informatiku (podpredseda)

11.4. Členstvo v komisiách SAV

Ing. Karol Fröhlich, DrSc.

- Akreditačná komisia SAV (predseda)
- Komisia pre transformáciu SAV (člen)
- Komisia SAV pre ekonomické otázky (člen)
- Komisia SAV pre infraštruktúru a štrukturálne fondy (člen)

- Komisia SAV pre infraštruktúru a štrukturálne fondy (člen)
- Komisia SAV pre vesmírne aktivity (člen)
- Komisia SAV pre vyhodnocovanie medzinárodných projektov (predseda)
- Komisia SAV pre zahraničné styky (člen)
- Rada SAV pre vzdelávanie a doktorandské štúdium (člen)

doc. Ing. Fedor Gömöry, DrSc.

- Komisia SAV pre informačné a komunikačné technológie (člen)
- Komisia SAV pre vyhodnocovanie medzinárodných projektov (člen)

Ing. Peter Lobotka, CSc.

- Komisia SAV pre medzinárodnú vedecko-technickú spoluprácu (podpredseda do 04. 2015)

doc. RNDr. Martin Moško, DrSc.

- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)

doc. Ing. Jozef Novák, DrSc.

- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)

Doc. RNDr. Silvester Takács, DrSc.

- Akreditačná komisia SAV (člen)

11.5. Členstvo v orgánoch VEGA

RNDr. Vladimír Cambel, DrSc.

- Komisia 1 matematické vedy, počítačové a informatické vedy a fyzikálne vedy, špecializácia: fyzikálne vedy (člen)

doc. RNDr. Edmund Dobročka, CSc.

- Komisie VEGA č. 7 pre strojárstvo a príbuzné odbory informačných a komunikačných technológií a materiálové inžinierstvo (člen)

Ing. Štefan Chromik, DrSc.

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

Ing. Jozef Osvald, DrSc.

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

12. Hospodárenie organizácie

12.1. Výdavky PO SAV

Tabuľka 12a Výdavky PO SAV (v €)

V ý d a v k y	**Skutočnosť k 31.12.2015 spolu**	**v tom:**			
		zo ŠR od zriaďovateľa	**z vlastných zdrojov**	**z iných zdrojov**	**z toho:**
					ŠF EÚ
Výdavky spolu	5 124 566,89	1 551 298,00	284 788,12	3 288 480,77	2 557 903,16
Bežné výdavky	3 409 491,49	1 538 298,00	269 368,21	1 601 825,28	871 247,67
v tom:					
mzdy (610)	1 376 247,47	957 185,00	90 680,45	328 382,02	131 157,76
poistné a príspevok do poisťovní (620)	442 229,30	287 661,00	41 921,39	112 646,91	45 059,82
tovary a služby (630)	743 364,33	243 381,00	126 591,70	373 391,63	95 164,87
z toho: časopisy	9 682,27	6 583,00	1 443,06	1 656,21	
VEGA projekty	132 727,00	132 727,00			
MVTS projekty	42 584,00	42 584,00			
SASPRO	13 476,20	7 354,00		6 122,20	
vedecká výchova	3 240,00	3 240,00			
bežné transfery (640)	847 650,39	50 071,00	10 174,67	787 404,72	599 865,22
z toho: štipendiá	50 071,00	50 071,00			
transfery partnerom projektov	787 404,72			787 404,72	599 865,22
Kapitálové výdavky	1 715 075,40	13 000,00	15 419,91	1 686 655,49	1 686 655,49
v tom:					
obstarávanie kapitálových aktív	1 476 376,75	13 000,00	15 419,91	1 447 956,84	1 447 956,84
kapitálové transfery	238 698,65			238 698,65	238 698,65
z toho: transfery partnerom projektov	238 698,65			238 698,65	238 698,65

12.2. Príjmy PO SAV

Tabuľka 12b Príjmy PO SAV (v €)

P r í j m y	**Skutočnosť k 31.12.2015 spolu**	**v tom:**	
		rozpočtové	**z mimorozp. zdrojov**
Príjmy spolu	5 145 972,20	1 551 298,00	3 594 674,20
Nedaňové príjmy	1 645 743,59	1 551 298,00	94 445,59
v tom:			
príjmy z prenájmu	0,00		
príjmy z predaja výrobkov a služieb	87 635,48		87 635,48
iné	6 810,11		6 810,11
Granty a transfery (mimo zdroja 111)	3 500 228,61		3 500 228,61
v tom:	0,00		
tuzemské	847 455,53		847 455,53
z toho: APVV	720 589,00		720 589,00
iné	0,00		
zahraničné	2 652 773,08		2 652 773,08
z toho: projekty rámcového programu EÚ	2 652 773,08		2 652 773,08
iné	0,00		

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

ElÚ bol v r. 2015 zapojený v nasledujúcich projektoch **Štrukturálnych fondov**:

1. **Kompetenčné centrum** – projekt predĺžený do konca novembra 2015. Realizovaná bola oprava prístavby na ÚM.
2. **Centrum aplikovaného výskumu nových materiálov a transferu technológií –** V rámci projektu boli inštalované všetky plánované zariadenia - S inštaláciou týchto zariadení boli spojené značné investície, ktoré musel ElÚ uhradiť čiastočne vlastných zdrojov.
3. **Univerzitný vedecký park STU BA –** došlo k predĺženiu projektu do konca r. 2015, verejné obstarávanie ešte nie je ukončené.
4. ElÚ riešil aj 2 projekty ŠF s hlavným partnerom mimo BA (Piešťany), oba boli predĺžené (do konca júna projekt s firmou Integra, do konca novembra projekt s firmou Phostec). Všetky zariadenia boli dodané, vznikla potreba opraviť miestnosti v Piešťanoch pre tieto zariadenia.
5. **Allegro** - mimo BA projekt PSAV – tu ElÚ rieši nedeštruktívne testovanie materiálov, projekt bol predĺžený do konca r. 2015, prístroj bol dodaný. Taktiež bolo potrebné opraviť miestnosti v Piešťanoch.

Ocenenia
Dvaja pracovníci pracovníci pracujú na projektoch SASPRO, ďalší dvaja získali projekt SASPRO od r. 2016.

Pobyty zahraničných pracovníkov na ElÚ

V októbri nastúpil na ročný študijný pobyt MSc. Rifki Terzioglu z Sakarya University, Turecko, v decembri taktiež na ročný študijný pobyt Dr. Sheng Jie zo Shanghai Jiao Tang University, Čína, obom hradia pobyty na ElÚ SAV vysielajúce organizácie.

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2015

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

15.1.2. Iné domáce ocenenia

Gömöry Fedor
Vedec roka 2014
Oceňovateľ: CVTI, SAV, ZSVS

15.2. Medzinárodné ocenenia

Šoltýs Ján
Druhé miesto za najlepší poster konferencie ISPM
Oceňovateľ: Advisory Board International Scanning Probe Microscopy Rio 2015

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

17. Problémy a podnety pre činnosť SAV

Správu o činnosti organizácie SAV spracoval(i):

RNDr. Vladimír Cambel, DrSc., 02/ 5922 2552
Ing. Jozef Fabian, CSc, 02/5922 2658
PhDr. Anna Gömöryová, 02/ 5922 2908

Riaditeľ organizácie SAV	**Predseda vedeckej rady**
.....	.....
RNDr. Vladimír Cambel, DrSc.	RNDr. Dagmar Gregušová, DrSc.

Prílohy

Príloha A

Zoznam zamestnancov a doktorandov organizácie k 31.12.2015

Zoznam zamestnancov podľa štruktúry (nadväzne na údaje v Tabuľke 1a)

	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.	50	0.53
3.	doc. Ing. Fedor Gömöry, DrSc.	100	1.00
4.	RNDr. Dagmar Gregušová, DrSc.	100	1.00
5.	Ing. Štefan Chromik, DrSc.	60	0.60
6.	Ing. Pavol Kováč, DrSc.	100	1.00
7.	Ing. Ján Kuzmík, DrSc.	100	1.00
8.	Ing. Tibor Lalinský, DrSc.	100	1.00
9.	doc. RNDr. Martin Moško, DrSc.	100	1.00
10.	doc. Ing. Jozef Novák, DrSc.	100	1.00
11.	Ing. Jozef Osvald, DrSc.	100	1.00
12.	Doc. RNDr. Silvester Takács, DrSc.	20	0.20
Vedúci vedeckí pracovníci CSc., PhD.			
1.	RNDr. Štefan Beňačka, CSc.	40	0.40
2.	Ing. František Dubecký, CSc.	40	0.40
Samostatní vedeckí pracovníci			
1.	RNDr. Pavol Boháček, CSc.	100	1.00
2.	doc. RNDr. Edmund Dobročka, CSc.	100	1.00
3.	Ing. Ján Fedor, PhD	100	1.00
4.	RNDr. Štefan Haščík, PhD.	100	1.00
5.	Dr. rer. nat. Martin Hulman	100	1.00
6.	Ing. Jozef Huran, CSc.	100	1.00
7.	RNDr. Dušan Korytár, CSc.	50	0.63
8.	RNDr. Michal Kučera, PhD	100	1.00
9.	Ing. Róbert Kúdela, CSc.	100	1.00
10.	Ing. Peter Lobotka, CSc.	100	1.00
11.	Mgr. Enric Pardo, PhD.	100	1.00
12.	Ing. Jozef Pitel, CSc.	100	1.00
13.	Ing. Alica Rosová, CSc.	100	1.00

14.	Mgr. Eugen Seiler, PhD	100	0.08
15.	Ing. Roman Stoklas, PhD.	100	0.21
16.	Ing. Ján Šoltýs, PhD	100	1.00
17.	Ing. Ján Šouc, CSc.	100	1.00
18.	RNDr. Marianna Španková, PhD	80	0.80
19.	RNDr. Vladimír Štrbík, CSc.	100	1.00
20.	Ing. Milan Ťapajna, PhD.	100	1.00
21.	Ing. Jaroslav Tóbik, PhD.	50	0.50
22.	Ing. Gabriel Vanko, PhD.	100	1.00
23.	Ing. Ivo Vávra, CSc.	60	0.60
24.	Mgr. Bohumír Zaťko, PhD	100	1.00
Vedeckí pracovníci			
1.	Mgr. Oleg Babchenko, PhD.	100	0.67
2.	Ing. Jaroslav Dzuba, PhD.	100	1.00
3.	Ing. Jozef Fabian, CSc	100	1.00
4.	Mgr. Juraj Feilhauer, PhD.	100	0.00
5.	Ing. Filip Gucmann, PhD.	100	1.00
6.	Ing. Ladislav Hrubčín, CSc.	20	0.00
7.	Mgr. Ján Kováč, PhD.	100	1.00
8.	Ing. Miloslav Kulich, PhD.	100	1.00
9.	Ing. Pavol Kunzo, PhD.	100	0.33
10.	Mgr. Agáta Laurenčíková, PhD.	100	1.00
11.	RNDr. Antónia Mošková, CSc.	80	0.80
12.	Ing. Marián Precner, PhD.	100	0.17
13.	Ing. Ivan Rýger, PhD.	100	0.54
14.	Mgr. Michaela Sojková, PhD.	100	0.95
15.	Mgr. Mykola Soloviov, PhD.	100	1.00
16.	Ing. Michal Vojenčiak, PhD.	100	1.00
17.	Ing. Zdenko Zápražný, PhD.	100	1.00
Odborní pracovníci s VŠ vzdelaním			
1.	Mgr. Miroslav Adámek	100	0.83
2.	Ing. Michal Blaho	100	1.00
3.	Mgr. Jana Brndiarová	8	0.08
4.	Ing. Boris Brunner	17	0.17
5.	Mgr. Martin Dufala	10	0.10

6.	Ing. Peter Eliáš	100	1.00
7.	Ing. Lubomír Frolek	100	1.00
8.	Ing. Norbert Gál	8	0.03
9.	Mgr. Peter Gálik	8	0.03
10.	Mgr. Štefan Gaži	60	0.60
11.	PhDr. Anna Gömöryová	100	1.00
12.	Ing. Stanislav Hasenöhrl	100	1.00
13.	Ing. Imrich Hušek	100	1.00
14.	RNDr. Kristína Hušeková	100	1.00
15.	Ing. Peter Jančovič	17	0.15
16.	Ing. Milan Kapolka	8	0.08
17.	Ing. Eva Kováčová	100	1.00
18.	Ing. Tibor Melišek	100	1.00
19.	Ing. Alica Miklášová	50	0.83
20.	Ing. Pavol Mozola	100	1.00
21.	Mgr. Vojtech Ogrodnik	40	0.40
22.	Ing. Dominika Poláková	100	1.00
23.	Mgr. Katarína Sečianska	8	0.08
24.	Mgr. Mária Sekáčová	100	1.00
25.	Ing. Tomáš Ščepka	86	0.86
26.	RNDr. Vasilij Šmatko	60	0.60
27.	Ing. Lukáš Válik	8	0.03
28.	Ing. Simona Zajkoska	17	0.11
29.	Mgr. Martina Zdechovanová	80	0.60
30.	Ing. Marta Zofcsáková	100	1.00
Odborní pracovníci ÚSV			
1.	Juraj Arbet	100	1.00
2.	Ján Dérer	80	0.80
3.	Peter Drlička	100	1.00
4.	Dagmar Erbenová	100	1.00
5.	Michal Gerboc	100	1.00
6.	Iveta Grófova	100	1.00
7.	Martin Grujbár	100	1.00
8.	Ľubomír Kopera	100	1.00
9.	Magdaléna Krajčírová	100	1.00

10.	Peter Martiš	100	1.00
11.	Pavol Mužík	60	0.60
12.	Edita Považanová	100	1.00
13.	Pavol Rác	60	0.60
14.	Jana Ryzá	100	1.00
15.	Alena Seifertová	100	1.00
16.	Edita Sýkorová	50	0.50
17.	Stanislav Štefánik	100	1.00
18.	Jozef Talapa	40	0.40
19.	Juraj Tančár	100	1.00
20.	Margita Valentínová	60	0.60
Ostatní pracovníci			
1.	Eva Domoráková	50	0.50
2.	Kvetoslava Hamburgová	100	1.00
3.	František Karovič	50	0.50
4.	Ján Matlovič	60	0.60
5.	Júlia Poláková	50	0.50
6.	Mária Poórová	50	0.50
7.	Róbert Vanek	100	1.00
8.	Irena Vinceková	100	1.00
9.	Jozef Volko	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	**Dátum odchodu**	**Ročný prepočítaný úväzok**
Odborní pracovníci s VŠ vzdelaním			
1.	Ing. Marek Hanuska	1.4.2015	0.25
2.	RNDr. Anton Pevala, CSc.	31.1.2015	0.05
3.	Ing. Lukáš Šveda	1.4.2015	0.13
Odborní pracovníci ÚSV			
1.	Branislav Balaško	31.10.2015	0.42

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Jana Brndiarová	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
2.	Ing. Boris Brunner	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
3.	Ing. Norbert Gál	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
4.	Mgr. Peter Gálik	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
5.	Ing. Peter Jančovič	Fakulta elektrotechniky a informatiky STU	5.2.13 elektronika
6.	Ing. Milan Kapolka	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
7.	Mgr. Katarína Sečianska	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
8.	Ing. Lukáš Válik	Fakulta elektrotechniky a informatiky STU	5.2.13 elektronika
9.	Ing. Simona Zajkoska	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
Interní doktorandi hradení z iných zdrojov			
1.	Ing. Michal Blaho	Fakulta elektrotechniky a informatiky STU	5.2.13 elektronika
2.	Ing. Tomáš Ščepka	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
Externí doktorandi			
organizácia nemá externých doktorandov			

Príloha B
Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medziakademická dohoda (MAD)

1.) Kryštály pre vysokoenergetickú X-ray optiku a zobrazenie, detektory rtg a gama žiarenia *(Crystals for high energy x-ray optics and imaging and x-ray and gamma ray detectors)*

Zodpovedný riešiteľ:	František Dubecký
Trvanie projektu:	1.1.2013 / 31.12.2015
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Taliansko: 1

2.) Príprava a vlastnosti supravodivých, manganitových a dielektrických vrstiev pre moderné elektronické aplikácie *(Preparation and properties of superconducting, manganite and dielectric films for modern electronic applications)*

Zodpovedný riešiteľ:	Štefan Chromik
Trvanie projektu:	1.1.2013 / 31.12.2015
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Poľsko: 1

3.) Výskum efektu blízkosti a spinovej injekcie v dvojvrstvových epitaxných štruktúrach z feromagnetických manganátov a vysokoteplotných supravodičov *(Investigation of the proximity effect and spin injection in epitaxial bi-layer structures of ferromagnetic manganites and high temperature superconductors)*

Zodpovedný riešiteľ:	Vladimír Štrbík
Trvanie projektu:	1.1.2012 / 31.12.2015
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	2 - Bulharsko: 2

Programy: Medzivládna dohoda

4.) Perovskitovské heteroštruktúry nanometrových hrúbok pre senzory a spintroniku

Zodpovedný riešiteľ:	Vladimír Štrbík
Trvanie projektu:	1.1.2015 / 31.12.2017
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Bulharsko: 1

Programy: COST

5.) Zachytenie spoločného európskeho výskumu v nanášaní po atomárnych vrstvách *(Hooking together European research in atomic layer deposition)*

Zodpovedný riešiteľ:	Karol Fröhlich
Trvanie projektu:	4.12.2014 / 4.12.2018
Evidenčné číslo projektu:	MP1402
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Tyndall National Institute, Cork
Počet spoluriešiteľských inštitúcií:	22 - Belgicko: 1, Nemecko: 1, Dánsko: 1, Španielsko: 1, Estónsko: 1, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 1, Chorvátsko: 1, Maďarsko: 1, Švajčiarsko: 2, Írsko: 1, Taliansko: 1, Luxembursko: 1, Holandsko: 1, Nórsko: 1, Poľsko: 1, Portugalsko: 1, Švédsko: 1, Turecko: 1
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

6.) Hybridné zariadenia na uskladňovanie energie v mobilných a stacionárnych aplikáciách *(Hybrid energy storage devices and systems for mobile and stationary applications)*

Zodpovedný riešiteľ:	Fedor Gömöry
Trvanie projektu:	2.5.2011 / 1.5.2015
Evidenčné číslo projektu:	MP1004
Organizácia je koordinátorom projektu:	nie
Koordinátor:	WTTC Berlin
Počet spoluriešiteľských inštitúcií:	24 - Belgicko: 2, Bulharsko: 1, Česko: 1, Nemecko: 1, Španielsko: 2, Estónsko: 1, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 1, Švajčiarsko: 1, Írsko: 1, Izrael: 1, Taliansko: 1, Lotyšsko: 1, Nórsko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1, Srbsko: 1, Slovensko: 0, Turecko: 2
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 1667 €

7.) Pokročilá rentgenová priestorová a časová metrológia *(Advanced X-ray spatial and temporal metrology)*

Zodpovedný riešiteľ:	Dušan Korytár
Trvanie projektu:	16.11.2012 / 15.11.2016
Evidenčné číslo projektu:	MP1203
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Laboratoire d'Optique Appliquée, ENSTA-ParisTech, CNRS, Ecole Polytechnique
Počet spoluriešiteľských inštitúcií:	24 - Rakúsko: 1, Česko: 2, Nemecko: 1, Dánsko: 1, Španielsko: 1, Estónsko: 2, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 0, Chorvátsko: 1, Maďarsko: 1, Švajčiarsko: 1, Írsko: 1, Taliansko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 2, Srbsko: 1, Slovinsko: 1, Švédsko: 1, Turecko: 1
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

8.) Koloidné aspekty nanovedy pre inovatívne procesy a materiály *(Colloidal aspects of nanoscience for innovative processes and materials)*

Zodpovedný riešiteľ:	Peter Lobotka
Trvanie projektu:	19.1.2012 / 18.1.2016
Evidenčné číslo projektu:	CM1101
Organizácia je koordinátorom projektu:	nie
Koordinátor:	J. Haber Institute of Catalysis and Surface Chemistry
Počet spoluriešiteľských inštitúcií:	33 - Rakúsko: 1, Belgicko: 1, Bulharsko: 1, Cyprus: 1, Česko: 1, 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: 2, Litva: 1, Lotyšsko: 1, Malta: 1, Holandsko: 1, Nórsko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1, Srbsko: 1, Slovensko: 2, Slovinsko: 1, Švédsko: 1, Turecko: 1
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

9.) Výmena poznatkov o iónových kvapalinách *(Exchange on ionic liquids)*

Zodpovedný riešiteľ:	Peter Lobotka
Trvanie projektu:	15.5.2013 / 14.5.2017
Evidenčné číslo projektu:	CM1206
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Technical University of Denmark
Počet spoluriešiteľských inštitúcií:	25 - Rakúsko: 1, Belgicko: 1, Bulharsko: 1, Česko: 1, Nemecko: 1, Dánsko: 1, Španielsko: 1, Estónsko: 1, Fínsko: 1, Francúzsko: 2, Veľká Británia: 1, Grécko: 1, Maďarsko: 1, Švajčiarsko: 1, Írsko: 1, Taliansko: 1, Litva: 1, Holandsko: 1, Nórsko: 1, Poľsko: 1, Portugalsko: 1, Slovinsko: 1, Švédsko: 1, Turecko: 1

Čerpané financie:
Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

10.) Supravodivosť na nanoškále: Nové funkcionality prostredníctvom optimalizovaného ohraničenia kondenzátu a polí *(Nanoscale Superconductivity:)*

Zodpovedný riešiteľ:	Peter Samuely
Zodpovedný riešiteľ v organizácii SAV:	Vladimír Cambel
Trvanie projektu:	19.10.2012 / 18.10.2016
Evidenčné číslo projektu:	4141/12
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Katholieke Universiteit Leuven, Institute for Nanoscale Physics and Chemistry
Počet spoluriešiteľských inštitúcií:	49 - Rakúsko: 2, Belgicko: 3, Česko: 3, Nemecko: 4, Dánsko: 2, Španielsko: 4, Estónsko: 1, Fínsko: 4, Francúzsko: 3, Veľká Británia: 6, Grécko: 1, Chorvátsko: 1, Švajčiarsko: 3, Taliansko: 2, Holandsko: 3, Nórsko: 2, Poľsko: 1, Portugalsko: 1, Slovensko: 1, Slovinsko: 1, Turecko: 1
Čerpané financie:	

11.) Moderné rtg zobrazovacie a tomografické metódy využívajúce fázový kontrast *(Enhanced X-ray tomographic reconstruction: experiment, modeling, and algorithms)*

Zodpovedný riešiteľ:	Zdenko Zápražný
Trvanie projektu:	16.5.2013 / 15.5.2017
Evidenčné číslo projektu:	MP1207
Organizácia je koordinátorom projektu:	nie
Koordinátor:	CWI, Science Park 123, NL-1090GB Amsterdam
Počet spoluriešiteľských inštitúcií:	19 - Rakúsko: 1, Belgicko: 1, Cyprus: 1, Nemecko: 1, Dánsko: 1, Španielsko: 1, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 1, Maďarsko: 1, Švajčiarsko: 1, Taliansko: 1, Holandsko: 1, Nórsko: 1, Poľsko: 1, Srbsko: 1, Švédsko: 1, Turecko: 1
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Programy: 7RP

12.) Vývoj supravodivých pások v Európe: Nové materiály a architektúry pre zníženie nákladov silnoprúdových aplikácií a magnetov *(European development of superconducting tapes: Integrating novel materials and architectures into cost effective processes for power applications and magnets)*

Zodpovedný riešiteľ:	Fedor Gömöry
Trvanie projektu:	1.9.2012 / 28.2.2017
Evidenčné číslo projektu:	NMP3-LA-2012-280432
Organizácia je koordinátorom projektu:	nie

Koordinátor:	CSIC ICMAB, Barcelona
Počet spoluriešiteľských inštitúcií:	8 - Rakúsko: 1, Belgicko: 1, Nemecko: 1, Španielsko: 1, Francúzsko: 1, Veľká Británia: 1, Taliansko: 1, Rumunsko: 1
Čerpané financie:	EU: 39498 € Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

13.) Supravodivá, spoľahlivá, ľahká a výkonnejšia veterná turbína umiestnená mimo pobrežia *(Superconducting, reliable, lightweight, and more powerful offshore wind turbine)*

Zodpovedný riešiteľ:	Pavol Kováč
Trvanie projektu:	1.12.2012 / 31.12.2016
Evidenčné číslo projektu:	308793
Organizácia je koordinátorom projektu:	nie
Koordinátor:	TECNALIA
Počet spoluriešiteľských inštitúcií:	7 - Nemecko: 2, Španielsko: 2, Francúzsko: 1, Veľká Británia: 1, Taliansko: 1
Čerpané financie:	EU: 10923 € Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Programy: International Visegrad Found (IVF)

14.) Vysokobezpečný GaN MOS spínací tranzistor *(Highly Safe GaN Metal-Oxide-Semiconductor Transistor Switch)*

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	1.10.2015 / 31.10.2018
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	3 - Maďarsko: 1, Japonsko: 1, Poľsko: 1
Čerpané financie:	IVF: 6250 €

Programy: EMRP (EURAMET)

15.) Mikrovlnná a terahertzová metrológia pre bezpečnosť domácností *(Microwave and terahertz metrology for homeland security)*

Zodpovedný riešiteľ:	Peter Lobotka
Trvanie projektu:	1.6.2012 / 30.5.2015
Evidenčné číslo projektu:	EMRP - NEW07 THz Security
Organizácia je koordinátorom projektu:	nie
Koordinátor:	PTB Braunschweig
Počet spoluriešiteľských inštitúcií:	7 - Česko: 1, Nemecko: 3, Francúzsko: 1, Švajčiarsko: 1, Taliansko: 1
Čerpané financie:	

Programy: Horizont 2020

16.) 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 members of the EUROfusion consortium)*

Zodpovedný riešiteľ:	Michal Vojenčiak
Trvanie projektu:	1.1.2014 / 31.12.2018
Evidenčné číslo projektu:	633053
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Max-Planck Gesellschaft zur Forderung der Wissenschaften E.V.
Počet spoluriešiteľských inštitúcií:	33 - Rakúsko: 1, Belgicko: 1, Bulharsko: 1, Česko: 2, Nemecko: 3, Dánsko: 1, Španielsko: 2, Estónsko: 2, Fínsko: 1, 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
Čerpané financie:	EU: 22992 € Podpora medzinárodnej spolupráce z národných zdrojov: 6000 €

Projekty národných agentúr

Programy: VEGA

1.) Technológia prípravy a štúdium metalizačných vrstiev pre plošné detektory ionizačného žiarenia na báze SI GaAs *(Technology and study of metalization layers for area radiation detectors on base of semi-insulating GaAs)*

Zodpovedný riešiteľ:	Pavol Boháček
Trvanie projektu:	1.1.2013 / 31.12.2015
Evidenčné číslo projektu:	2/0175/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 2906 €

Dosiahnuté výsledky:

Kleinová, A., Huran, J., Sasinková, V., Perný, M., Šály, V., Packa, J., : FTIR spectroscopy of silicon carbide thin films prepared by PECVD technology for solar cell application,. Proc. SPIE 9563 (2015) 95630U.

Zaťko, B., Dubecký, F., Šagátová, A., Sedláčková, K., Ryć, L., : High resolution alpha particle detectors based on 4H-SiC epitaxial layer. J. Instrument. 10 (2015) C04009.

Huran, J., Mikolášek, M., Boháček, P., Kleinová, A., Sasinková, V., Kobzev, A., Sekáčová, M., Arbet, J., : HWCD technology of silicon carbide thin films: properties In: Proc. ADEPT. 3st Inter.

Conf. on Advan. in Electronic and Photonic Technol. Eds. D. Pudis et al. Žilina: Univ. Žilina 2015. ISBN 978-80-554-1033-3. P. 104-107.

Dubecký, F., Kindl, D., Hubík, P., Oswald, J., Mičušík, M., Gombia, E., Boháček, P., Sekáčová, M., Zaťko, B., Šagátová, A., : Peculiarities of metal contacts on semi-insulating GaAs: electrical, photoelectronic and XPS characterization In: Proc. 21th Inter. Conf. on Applied Phys. of Cond. Matter (APCOM 2015). Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2015. ISBN 978-80-227-4373-0. P. 216-220.

Sasinková, V., Huran, J., Kleinová, A., Boháček, P., Arbet, J., Sekáčová, M., : Raman spectroscopy study of SiC thin films prepared by PECVD for solar cell working in hard environment,. Proc. SPIE 9563 (2015) 95630V.

Dubecký, F., Kindl, D., Hubík, P., Gombia, E., Boháček, P., Sekáčová, M., : Role of the metal contact in electrical transport through M/S-GaAs/M structures In: Proc. ADEPT. 3st Inter. Conf. on Advan. in Electronic and Photonic Technol. Eds. D. Pudis et al. Žilina: Univ. Žilina 2015. ISBN 978-80-554-1033-3. P. 112-115.

Zaťko, B., Šagátová, A., Boháček, P., Sekáčová, M., Nečas, V., : The effect of high-energy electrons irradiation on the current-voltage characteristics of Schottky barriers detectors based on semi-insulating GaAs In: Proc. 21th Inter. Conf. on Applied Phys. of Cond. Matter (APCOM 2015). Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2015. ISBN 978-80-227-4373-0. P. 154-157.

Huran, J., Hrubčín, L., Boháček, P., Borzakov, S., Skuratov, V., Kobzev, A., Kleinová, A., Sasinková, V., : The effect of xe ion and neutron irradiation on the properties of SiC and SiC(N) film prepared by PECVD technology In: RAD Proc. Ed. G. Ristič. Niš: RAD Ass. 2015. P. 399-403.

2.) Príprava tenkých vrstiev technológiou nanášania po atómových vrstvách *(Growth of thin films using Atomic Layer Deposition)*

Zodpovedný riešiteľ:	Karol Fröhlich
Trvanie projektu:	1.1.2014 / 31.12.2017
Evidenčné číslo projektu:	2/0138/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 16281 €

Dosiahnuté výsledky:

Miranda, E., Hudec, B., Su?é, J., Fröhlich, K., : Model for the current–voltage characteristic of resistive switches based on recursive hysteretic operators. IEEE Electron Dev. Lett. 36 (2015) 944-946.

Čičo, K., Jančovič, P., Dérer, J., Šmatko, V., Rosová, A., Blaho, M., Hudec, B., Gregušová, D., Fröhlich, K., : Resistive switching in nonplanar HfO2-based structures with variable series resistance. J. Vacuum Sci Technol. B 33 (2015) 01A108.

Blaho, M., Gregušová, D., Haščík, Š., Jurkovič, M., Ťapajna, M., Fröhlich, K., Dérer, J., Carlin, J.,

Grandjean, N., Kuzmík, J., : Self-aligned normally-off metal-oxide-semiconductor n+++GaN/InAlN/GaN high-electron mobility transistors. Phys. Status Solidi A 112 (2015) 1086-1090.

Ťapajna, M., Hilt, O., Bahat-Triedel, E., Würfl, H., Kuzmík, J., : Investigation of gate-diode degradation in normally-off p-GaN/AlGaN/GaN high-electron-mobility transistors. Applied Phys. Lett. 107 (2015) 193506.

Kuzmík, J., Haščík, Š., Kučera, M., Kúdela, R., Dobročka, E., Adikimenakis, A., Mičušík, M., Gregor, M., Plecenik, A., Georgakilas, A., : Elimination of surface band bending on N-polar InN with thin GaN capping,. Applied Phys. Lett. 107 (2015) 191605.

Brndiarová, J., Fröhlich, K., Hulman, M., Rosová, A., Dobročka, E., Kahro, T., Aarik, J., : Integration of atomic layer deposited Al2O3 dielectrics with graphene In: Proc. 21th Inter. Conf. on Applied Phys. of Cond. Matter (APCOM 2015). Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2015. ISBN 978-80-227-4373-0. P. 169-174.

3.) Technológia hradiel s izolujúcou vrstvou pre kvalitné, vyskoúčinné III-As a III-N tranzistory *(Insulated gate technologies for high-performance III-As and III-N transistors)*

Zodpovedný riešiteľ:	Dagmar Gregušová
Trvanie projektu:	1.1.2013 / 31.12.2016
Evidenčné číslo projektu:	2/0105/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 10176 €

4.) MEMS senzory na báze nanoštruktúr tenkých vrstiev pre detekciu plynov a stopových ťažkých kovov *(MEMS sensors based on nanostructured thin films for gas detection and determination of heavy metals)*

Zodpovedný riešiteľ:	Štefan Haščík
Trvanie projektu:	1.1.2012 / 31.12.2015
Evidenčné číslo projektu:	1/1106/12
Organizácia je koordinátorom projektu:	nie
Koordinátor:	ÚFE FEI STU
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 1421 €

5.) Rast 2D materiálov: grafén a diselenid titánu *(Growth of 2D materials: graphene and titanium diselenide)*

Zodpovedný riešiteľ:	Martin Hulman
Trvanie projektu:	1.1.2015 / 31.12.2017

Evidenčné číslo projektu:	2/0178/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 6679 €

Dosiahnuté výsledky:
Kostiuk, D.; Bodik, M.; Siffalovic, P.; Jergel, M.; Halahovets, Y.; Hodas, M.; Pelletta, M.; Pelach, M.; Hulman, M.; Spitalsky, Z.; Omastova, M.; Majkova E.; Reliable determination of the few-layer graphene oxide thickness using Raman spectroscopy. J. Raman. Spec. in press (2015)

6.) Príprava a štúdium vlastností supravodivých a feromagnetických vrstiev a štruktúr pre kryoelektroniku a senzoriku *(Perspective thin films and structures for electronic applications)*

Zodpovedný riešiteľ:	Štefan Chromik
Trvanie projektu:	1.1.2014 / 31.12.2017
Evidenčné číslo projektu:	2/0120/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 5880 €

Dosiahnuté výsledky:
Sojková, M., Štrbík, V., Chromik, Š., Liday, J., Vogrinčič, P., Dobročka, E., Španková, M., Talacko, M., and Gaži, Š.: Stable fluoride based sputtering target for Tl-based cuprate superconducting thin film fabrication, Vacuum 119 (2015) 250-255.

Španková, M., Rosová, A., Dobročka, E., Chromik, Š., Vávra I., Štrbik, V., Machajdík, D., Kobzev, A.P., and Sojková, M.: Structural properties of epitaxial La0.67Sr0.33MnO3 films with increased temperature of metal-insulator transition grown on MgO substrates, Thin Solid Films 583 (2015) 19-24.

Sojková, M., Štrbik, V., Chromik, Š., Španková, M., Nurgaliev, T., and Blagoev, B.: Fabrication of hybrid thin film structures from HTS and CMR materials. Accepted in J. of Physics: Conference Series

Štrbík, V., Beňačka, Š., Gaži, Š., Španková, M., Šmatko, V., Chromik, Š., Gál, N., Sojková, M. and Pisarčík, M.: Transport properties of YBa2Cu3Ox/La0.67Sr0.33MnO3 nanojunctions. Accepted in J. of Physics: Conference Series.

7.) Vysoko kvalitné aktívne povrchy pre novú generáciu prvkov kryštálovej röntgenovej optiky *(High quality active surfaces for new generation of X-ray crystal optics elements)*

Zodpovedný riešiteľ:	Matej Jergel
Zodpovedný riešiteľ v organizácii SAV:	Zdenko Zápražný
Trvanie projektu:	1.1.2015 / 31.12.2017

Evidenčné číslo projektu:	2/0004/15
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 6682 €

8.) Jemno-vláknitý supravodič MgB2 pre striedavé aplikácie *(Fine-filamentary MgB2 superconductor for AC applications)*

Zodpovedný riešiteľ:	Pavol Kováč
Trvanie projektu:	1.1.2012 / 31.12.2015
Evidenčné číslo projektu:	2-0121-12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 17713 €

9.) Vysokoteplotná mikrovlnná charakterizácia pokročilých polovodičových prvkov *(High temperature microwave characterization of advanced semiconductor devices)*

Zodpovedný riešiteľ:	Tibor Lalinský
Trvanie projektu:	1.1.2012 / 31.12.2015
Evidenčné číslo projektu:	1/0839/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	VEGA: 2367 €

Dosiahnuté výsledky:

Projekt je cielený na mikrovlnnú charakterizáciu tranzistorov a senzorov na báze AlGaN/GaN heteroštruktúr (AlGaN/GaN HEMT, SAW senzory na báze AlGaN/GaN) schopných pracovať pri vysokých teplotách (T?300 °C). V riešiteľskom období roka 2015 projekt bol zameraný na výskum vysokoteplotne stabilných hradiel tranzistorov AlGaN/GaN HEMT umožňujúcich činnosť uvedených tranzistorov v teplotnej oblasti T= 500 - 600 °C. Originálnym prínosom je návrh novej hradlovej metalizácie na báze multivrstvového systému Ir/Al optimálneho zloženia špeciálne formovaného technikou vysokoteplotnej oxidácie v atmosfére O2 pri teplotách 800 °C. Termicky oxidované Ir/Al hradlové systémy v porovnaní s konvenčnou hradlovou metalizáciou na báze Ir, vykazujú extrémne nízke zvodové prúdy, vysokú Schottkyho bariéru a zvýšenú strmosť. Metalurgický a fyzikálny model Schottkyho rozhrania je študovaný metódou SIMS, mikroAES, RTG a TEM. Vysokoteplotná odolnosť hradlového systému je testovaná na pripravených AlGaN/GaN HEMT so submikrometrovou dĺžkou hradiel (Lg<1 μm).

T. Lalinský, G. Vanko, E. Dobročka, A. Vincze, J. Dzuba, O. Babchenko: Ir/Al multilayer systems for high temperature stable gates of AlGaN/GaN HEMTs, In: Progress in Applied Surface, Interface and Thin Film Science Conference, November 23-26, 2015, Florence, Italy.

10.) Teoretické štúdium vodivosti a perzistentných prúdov v nízkorozmerných mezoskopických systémoch: Vplyv interakcie, disorderu a pásovej štruktúry *(Theoretical study of conductance and persistent currents in low-dimensional mesoscopic systems: effects of interaction, disorder, and band structure)*

Zodpovedný riešiteľ:	Martin Moško
Trvanie projektu:	1.1.2014 / 31.12.2016
Evidenčné číslo projektu:	2/0200/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 2854 €

11.) Nanoštruktúry a ich aplikácie v optoelektronických súčiastkach *(Advanced nanostructures for application in optoelectronic devices)*

Zodpovedný riešiteľ:	Jozef Novák
Trvanie projektu:	1.1.2013 / 31.12.2016
Evidenčné číslo projektu:	2/0098/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 12437 €

12.) Pokročilé AlGaN/GaN HEMT a MISHEMT tranzistory pre vysokoteplotnú elektroniku a senzoriku *(Advanced AlGaN/GaN HEMT and MISHEMT transistors for high temperature electronics and sensors)*

Zodpovedný riešiteľ:	Jozef Osvald
Trvanie projektu:	1.1.2013 / 31.12.2016
Evidenčné číslo projektu:	2/0167/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 7838 €

13.) Senzory na báze nosníkových štruktúr *(Cantilever based sensors)*

Zodpovedný riešiteľ:	Ján Šoltýs
Trvanie projektu:	1.1.2015 / 31.12.2018
Evidenčné číslo projektu:	2/0183/15

Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 7745 €

14.) Mezoskopické vlastnosti supravodivých tenkovrstvových nanoštruktúr *(Mesoscopic properties of thin film superconducting nanostructures)*

Zodpovedný riešiteľ:	Vladimír Štrbík
Trvanie projektu:	1.1.2013 / 31.12.2015
Evidenčné číslo projektu:	2/0173/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Bulharsko: 1
Čerpané financie:	VEGA: 3957 €

Dosiahnuté výsledky:

Sojková, M., Štrbík, V., Chromik, Š., Liday, J., Vogrinčič, P., Dobročka, E., Španková, M., Talacko, M., and Gaži, Š.: Stable fluoride based sputtering target for Tl-based cuprate superconducting thin film fabrication, Vacuum 119 (2015) 250-255.

Sojková, M., Štrbik, V., Chromik, Š., Španková, M., Nurgaliev, T., and Blagoev, B.: Fabrication of hybrid thin film structures from HTS and CMR materials. Accepted in J. of Physics: Conference Series

Štrbík, V., Beňačka, Š., Gaži, Š., Španková, M., Šmatko, V., Chromik, Š., Gál, N., Sojková, M. and Pisarčík, M.: Transport properties of YBa2Cu3Ox/La0.67Sr0.33MnO3 nanojunctions. Accepted in J. of Physics: Conference Series.

Kleinová, A., Huran, J., Sasinková, V., Perný, M., Šály, V., Packa, J., : FTIR spectroscopy of silicon carbide thin films prepared by PECVD technology for solar cell application,. Proc. SPIE 9563 (2015) 95630U

Huran, J., Mikolášek, M., Boháček, P., Kleinová, A., Sasinková, V., Kobzev, A., Sekáčová, M., Arbet, J., : HWCD technology of silicon carbide thin films: properties In: Proc. ADEPT. 3st Inter. Conf. on Advan. in Electronic and Photonic Technol. Eds. D. Pudis et al. Žilina: Univ. Žilina 2015. ISBN 978-80-554-1033-3. P. 104-107.

Sasinková, V., Huran, J., Kleinová, A., Boháček, P., Arbet, J., Sekáčová, M., : Raman spectroscopy study of SiC thin films prepared by PECVD for solar cell working in hard environment,. Proc. SPIE 9563 (2015) 95630V.

Huran, J., Hrubčín, L., Boháček, P., Borzakov, S., Skuratov, V., Kobzev, A., Kleinová, A., Sasinková, V., : The effect of xe ion and neutron irradiation on the properties of SiC and SiC(N) film prepared by PECVD technology In: RAD Proc. Ed. G. Ristič. Niš: RAD Ass. 2015. P. 399-403.

15.) Termodynamické vlastností mikromagnetických objektov *(Thermodynamic properties of the micro-magnetic objects)*

Zodpovedný riešiteľ:	Jaroslav Tóbik
Trvanie projektu:	1.1.2014 / 31.12.2016
Evidenčné číslo projektu:	2/0180/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 1370 €

Dosiahnuté výsledky:
Tóbik, J., Cambel, V., and Karapetrov, G.: Asymmetry in time evolution of magnetization in magnetic nanostructures, Sci Reports 5 (2015) 12301

16.) Mikro-elektromechanický systém (MEMS) akumulácie energie pre využitie v medicíne *(Micro-electromechanical (MEMS) energy harvesting system for applications in medicine)*

Zodpovedný riešiteľ:	Gabriel Vanko
Trvanie projektu:	1.1.2014 / 31.12.2016
Evidenčné číslo projektu:	1/0712/14
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Strojnícka fakulta STU
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	

Dosiahnuté výsledky:
Projekt je zameraný na návrh, postup technologickej realizácie a funkčnú analýzu vlastností MEMS akumulátorov energie z biokompatibilného piezoelektrického materiálu AlGaN/GaN. Princípom MEMS akumulátorov je schopnosť transformovať deformačnú energiu na energiu elektrickú. Deformácia MEMS akumulátora bude výsledkom činnosti svalov človeka. Zvolený prístup pre vytvorenie MEMS akumulátora umožňuje celý konštrukčný návrh riešiť ako monolitické zariadenie s integráciou kontrolných a riadiacich elektronických obvodov postavených na báze HEMT(high electron mobility transistor). Výsledok zvoleného prístupu sa prejaví vo výslednej veľkosti celého zariadenia použitého v kardiostimulátoroch a defibrilátoroch. Riešenie projektu prispeje k rozšíreniu funkčných schopností spomenutých prístrojov, k zníženiu ceny výroby takýchto medicínskych zariadení a skvalitneniu života človeka.

Dzuba, J., Vanko, G., Držík, M., Rýger, I., Kutiš, V., Zehetner, J., Lalinský, T., : AlGaN/GaN diaphragm-based pressure sensor with direct high performance piezoelectric transduction mechanism. Applied Phys. Lett. 107 (2015) 122102.

Dzuba, J., Vanko, G., Vojs, M., Rýger, I., Ižák, T., Jirásek, V., Kutiš, V., Lalinský, T., : Finite element analysis of AlGaN/GaN micro-diaphragms with diamond Proc. SPIE 9517 (2015) 95171I.

Dzuba, J., Vanko, G., Držík, M., Rýger, I., Vallo, M., Kutiš, V., Haško, D., Choleva, P., Lalinský, T., : Stress investigation of the AlGaN/GaN micromachined circular diaphragms of a pressure

sensor. J. Micromech. Microengn. 25 (2015) 015001.

17.) Nové technológie prípravy nanočastíc *(New technologies of nanoparticles preparation)*

Zodpovedný riešiteľ:	Ivo Vávra
Trvanie projektu:	1.1.2013 / 31.12.2016
Evidenčné číslo projektu:	2 /0129/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 8710 €

18.) Supravodivé cievky z káblovaných REBCO vodičov *(Superconducting coils made of cabled REBCO conductors)*

Zodpovedný riešiteľ:	Michal Vojenčiak
Trvanie projektu:	1.1.2015 / 31.12.2017
Evidenčné číslo projektu:	2/0126/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 14321 €

19.) Pixelové senzory rtg. a gama žiarenia pre použitie najmä v digitálnej *(Pixel sensors of X- and gamma rays for using primarily in digital imaging)*

Zodpovedný riešiteľ:	Bohumír Zaťko
Trvanie projektu:	1.1.2013 / 31.12.2015
Evidenčné číslo projektu:	2/0062/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 3390 €

Dosiahnuté výsledky:
Kleinová, A., Huran, J., Sasinková, V., Perný, M., Šály, V., Packa, J., : FTIR spectroscopy of silicon carbide thin films prepared by PECVD technology for solar cell application,. Proc. SPIE 9563 (2015) 95630U.

Zaťko, B., Dubecký, F., Šagátová, A., Sedláčková, K., Ryć, L., : High resolution alpha particle detectors based on 4H-SiC epitaxial layer. J. Instrument. 10 (2015) C04009.

Huran, J., Mikolášek, M., Boháček, P., Kleinová, A., Sasinková, V., Kobzev, A., Sekáčová, M.,

Arbet, J., : HWCD technology of silicon carbide thin films: properties In: Proc. ADEPT. 3st Inter. Conf. on Advan. in Electronic and Photonic Technol. Eds. D. Pudis et al. Žilina: Univ. Žilina 2015. ISBN 978-80-554-1033-3. P. 104-107.

Boháček, P., Zaťko, B., Šagátová, A., Hybler, P., Sekáčová, M., : Influence of 5 MeV electron irradiation on galvanomagnetic parameters of semi-insulating GaAs In: Proc. 21th Inter. Conf. on Applied Phys. of Cond. Matter (APCOM 2015). Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2015. ISBN 978-80-227-4373-0. P. 234-237.

Sedláčková, K., Zaťko, B., Šagátová, A., Nečas, V., : The effect of contacts on energy resolution of SiC semiconductor detector in alpha-particle spectrometry In: Proc. 21th Inter. Conf. on Applied Phys. of Cond. Matter (APCOM 2015). Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2015. ISBN 978-80-227-4373-0. P. 258-262.

Zaťko, B., Šagátová, A., Boháček, P., Sekáčová, M., Nečas, V., : The effect of high-energy electrons irradiation on the current-voltage characteristics of Schottky barriers detectors based on semi-insulating GaAs In: Proc. 21th Inter. Conf. on Applied Phys. of Cond. Matter (APCOM 2015). Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2015. ISBN 978-80-227-4373-0. P. 154-157.

Huran, J., Hrubčín, L., Boháček, P., Borzakov, S., Skuratov, V., Kobzev, A., Kleinová, A., Sasinková, V., : The effect of xe ion and neutron irradiation on the properties of SiC and SiC(N) film prepared by PECVD technology In: RAD Proc. Ed. G. Ristič. Niš: RAD Ass. 2015. P. 399-403.

Programy: APVV

20.) Magnetické nanoelementy pre energeticky nezávislé pamäte a mikrovlnné aplikácie
(Magnetic nanoelements for nonvolatile memory and microwave applications)

Zodpovedný riešiteľ:	Vladimír Cambel
Trvanie projektu:	1.10.2013 / 31.3.2017
Evidenčné číslo projektu:	0088-12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 50226 €

Dosiahnuté výsledky:
Ščepka, T., Polakovič, J., Šoltýs, J., Tóbik, J., Kulich, M., Kúdela, R., Dérer, J., and Cambel, V.: Individual vortex nucleation/annihilation in ferromagnetic nanodots with broken symmetry observed by micro/Hall magnetometry, AIP Adv. 5 (2015) 117205. IF: 1,52

Tóbik, J., Cambel, V., and Karapetrov, G.: Asymmetry in time evolution of magnetization in magnetic nanostructures, Sci Reports 5 (2015) 12301. IF: 5,58

Precner, M., Fedor, J., Šoltýs, J., and Cambel, V.: Dual-tip magnetic force microscopy with suppressed influence on magnetically soft samples, Nanotechnol. 26 (2015) 055304. IF: 3,82

21.) Štruktúry odporového prepínania pre rozpoznávanie vzorov *(Resistive switching structures for pattern recognition)*

Zodpovedný riešiteľ:	Karol Fröhlich
Trvanie projektu:	1.7.2015 / 30.6.2018
Evidenčné číslo projektu:	14-0560
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 20000 €

Dosiahnuté výsledky:
Miranda, E., Hudec, B., Su?é, J., Fröhlich, K., : Model for the current–voltage characteristic of resistive switches based on recursive hysteretic operators. IEEE Electron Dev. Lett. 36 (2015) 944-946.

22.) Tvarovanie magnetického poľa pomocou kombinácie supravodivých a feromagnetických materiálov *(Magnetic field shaping by a combunation of superconducting and ferromagentic materials)*

Zodpovedný riešiteľ:	Fedor Gömöry
Trvanie projektu:	1.10.2013 / 31.3.2017
Evidenčné číslo projektu:	0623-12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 66363 €

23.) Kryštálové prvky rtg optiky pre kompresiu a expanziu zväzku *(Crystal elements of X-ray optics for beam compression and expansion)*

Zodpovedný riešiteľ:	Stanislav Hlaváč
Zodpovedný riešiteľ v organizácii SAV:	Dušan Korytár
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	0308-11
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 22793 €

24.) Výskum a vývoj technológií prípravy tenkých vrstiev karbidu kremíka pre aplikácie v solárnych článkoch a v tenkovrstvových súčiastkach *(Research and development of silicon carbide thin film technologies for applications in solar cells and thin film devices)*

Zodpovedný riešiteľ:	Jozef Huran
Trvanie projektu:	1.10.2013 / 31.12.2016
Evidenčné číslo projektu:	0443-12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 57796 €

Dosiahnuté výsledky:
Kleinová, A., Huran, J., Sasinková, V., Perný, M., Šály, V., and Packa, J.: FTIR spectroscopy of silicon carbide thin films prepared by PECVD technology for solar cell application, Proc. SPIE 9563 (2015) 95630U.

Sasinková, V., Huran, J., Kleinová, A., Boháček, P., Arbet, J., and Sekáčová, M.: Raman spectroscopy study of SiC thin films prepared by PECVD for solar cell working in hard environment, Proc. SPIE 9563 (2015) 95630V.

Huran, J., Hrubčín, L., Boháček, P., Borzakov, S.B., Skuratov, V.A., Kobzev, A.P., Kleinová, A., and Sasinková, V.: The effect of xe ion and neutron irradiation on the properties of SiC and SiC(N) film prepared by PECVD technology. In: RAD Proc. Third International Conference on Radiation and Applications in Various Fields of Research. Ed. G. Ristič. Niš: RAD Ass. 2015. ISBN: 978-86-80300-01-6. P. 399-403.

25.) Proximitný efekt a transportné vlastnosti nanoštruktúr feromagnet/supravodič *(Proximity effect and electron transport in ferromagnet/superconductor nanostructures)*

Zodpovedný riešiteľ:	Štefan Chromik
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	0494-11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 38638 €

Dosiahnuté výsledky:
Sojková, M., Štrbík, V., Chromik, Š., Liday, J., Vogrinčič, P., Dobročka, E., Španková, M., Talacko, M., and Gaži, Š.: Stable fluoride based sputtering target for Tl-based cuprate superconducting thin film fabrication, Vacuum 119 (2015) 250-255.

Španková, M., Rosová, A., Dobročka, E., Chromik, Š., Vávra I., Štrbik, V., Machajdík, D., Kobzev, A.P., and Sojková, M.: Structural properties of epitaxial La0.67Sr0.33MnO3 films with increased temperature of metal-insulator transition grown on MgO substrates, Thin Solid Films 583 (2015) 19-24.

Sojková, M., Štrbik, V., Chromik, Š., Španková, M., Nurgaliev, T., and Blagoev, B.: Fabrication of hybrid thin film structures from HTS and CMR materials. Accepted in J. of Physics: Conference

Series

Štrbík, V., Beňačka, Š., Gaži, Š., Španková, M., Šmatko, V., Chromik, Š., Gál, N., Sojková, M. and Pisarčík, M.: Transport properties of YBa2Cu3Ox/La0.67Sr0.33MnO3 nanojunctions. Accepted in J. of Physics: Conference Series.

26.) Ultraľahký kompozitný supravodič na báze Mg, B, Ti a Al *(Ultra light composite superconductor based on Mg, B, Ti and Al)*

Zodpovedný riešiteľ:	Pavol Kováč
Trvanie projektu:	1.7.2015 / 31.12.2018
Evidenčné číslo projektu:	14-0522
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 35121 €

27.) Monolitická integrácia ochudobňovacích a obohacovacích InAlN/GaN HFET *(Monolithic integration of depletion- and enhancement-mode InAlN/GaN HFET transistors)*

Zodpovedný riešiteľ:	Ján Kuzmík
Trvanie projektu:	1.7.2012 / 30.6.2015
Evidenčné číslo projektu:	0367-11
Organizácia je koordinátorom projektu:	nie
Koordinátor:	ÚEF FEI STU
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 16959 €

28.) Širokopásmový MEMS detektor terahertzového žiarenia *(Broadband MEMS detector of terahertz radiaton)*

Zodpovedný riešiteľ:	Tibor Lalinský
Trvanie projektu:	1.7.2015 / 30.6.2018
Evidenčné číslo projektu:	14-0613
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 27870 €

Dosiahnuté výsledky:
Projekt v počiatočnej fáze riešenia bol zameraný na návrh nových konštrukčných typov MEMS mikrobolometrov so zvýšenou citlivosťou a mechanickou stabilitou. Bola simulovaná ich stacionárna ako aj prechodová elektro-tepelná konverzná účinnost. Boli vypracované metódy

merania a určovania reziduálnych mechanických napätí v bufetových LSMO vrstvách rastených na Si a SOI substrátoch. Prínosom je tiež návrh metódy merania a určovania tepelnej konverznej účinnosti mikrobolometrov. Verifikácia simulovaných vlastností navrhnutých mikrobolometrov je očakávaná v roku 2016 vo vzájomnej iterácii s procesnou technológiou prípravy prvých prototypov, čo j v súlade s navrhnutým harmonogramom riešenia projektu.

Lalinský, T., Chromik, Š., Lobotka, P., Rýger, I., Zehetner, J., Dzuba, J., and Vanko, G.: Uncooled MEMS detector of terahertz radiation. In: 41st Inter. Conf. on Micro-and Nano-Engn. - MNE 2015. Hague 2015.

Š. Chromik, V. Štrbík, M. Španková, T. Lalinský, G. Vanko, P. Lobotka, Š. Beňačka, J. Li.: Advanced perovskite thin films and structures for applications, In: Progress in Applied Surface, Interface and Thin Film Science Conference, November 23-26, 2015, Florence, Italy.

29.) Fotoluminescenčné keramické materiály na báze oxynitridov kremíka *(Silicon oxynitride-based photoluminiscent ceramic materials)*

Zodpovedný riešiteľ:	Zoltán Lenčéš
Zodpovedný riešiteľ v organizácii SAV:	Karol Fröhlich
Trvanie projektu:	1.7.2015 / 30.6.2019
Evidenčné číslo projektu:	14-0385
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 6000 €

30.) Nanoštruktúrne materiály pre senzoriku *(Nanostructured Materials for Sensorics)*

Zodpovedný riešiteľ:	Peter Lobotka
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	0593 -11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 50890 €

Dosiahnuté výsledky:
Príprava nanokoloidov pomocou vákuového naprašovania rôznych materiálov na povrch iónovej kvapaliny. Takto pripravené nanočastice sú skoro monodisperzné, nepodliehajú oxidácii, pretože ióny z iónovej kvapaliny pôsobia ako surfaktant, nesedimentujú, ani po viac ako roku (na rozdiel od vodných alebo alkoholových disperzií) a keďže nanočastice sú fazetované, sú veľmi vhodné pre katalýzu. Z vyrobených nanočastíc sú najzaujímavejšie nanočastice Ni a Ni-Fe, ktoré sú superparamagnetické, čo sa dá využiť napr. v MRI; a tiež nanočastice uhlíka, ktoré svetielkujú, čo sa dá využiť ako marker v biológii, nakoľko uhlík je biokompatibilný (na rozdiel od CdS a iných polovodičových nanočastíc). Za veľmi významné považujeme aj to, že dokážeme nanočastice z

koloidu naniesť originálnym spôsobom v požadovanej koncentrácii na povrch napr. senzora plynov, čím sa zvýši jeho citlivosť a selektivita.

Kunzo, P., Lobotka, P., Kováčová, E., : Modification of polyaniline-based gas sensor by electrophoretic deposition of metal nanoparticles in ionic liquids. Key Engn. Mater. 654 (2015) 224-229.

P. Kunzo, P. Lobotka, G. Radnóczi, I. Vávra, E. Kováčová, and M. Mičušík: Polyaniline Films Functionalized by Electrophoretic Deposition of Metallic Nanoparticles Prepared in Ionic Liquids, submitted to Nanoscale

31.) Výskum technológie nanoobrábania pre aktívne povrchy novej generácie rtg optiky *(Research of the nanomachining technology for active surfaces of the new generation of the X-ray optics)*

Zodpovedný riešiteľ:	Eva Majková
Zodpovedný riešiteľ v organizácii SAV:	Zdenko Zápražný
Trvanie projektu:	1.7.2015 / 30.6.2019
Evidenčné číslo projektu:	0474-14
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 12500 €

32.) Fotonické štruktúry pre integrovanú optoelektroniku *(Photonic structures for integrated optoelectronics)*

Zodpovedný riešiteľ:	Jozef Novák
Trvanie projektu:	1.10.2013 / 31.12.2016
Evidenčné číslo projektu:	0395-12
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Elektrotechnická fakulta ŽU
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 24036 €

33.) Univerzálna nanoštrukturovaná platforma pre interdisciplinárne použitie *(Universal nanorod platform for interdisciplinary applications)*

Zodpovedný riešiteľ:	Jozef Novák
Trvanie projektu:	1.7.2015 / 31.12.2018
Evidenčné číslo projektu:	14-0297
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV

Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 23140 €

34.) Progresívne materiály s konkurenčnými parametrami usporiadania *(Progressive materials with competing order parameters)*

Zodpovedný riešiteľ:	Peter Samuely
Zodpovedný riešiteľ v organizácii SAV:	Vladimír Cambel
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	0036-11
Organizácia je koordinátorom projektu:	nie
Koordinátor:	ÚEF SAV
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 8481 €

Dosiahnuté výsledky:
Ščepka, T., Polakovič, J., Šoltýs, J., Tóbik, J., Kulich, M., Kúdela, R., Dérer, J., and Cambel, V.: Individual vortex nucleation/annihilation in ferromagnetic nanodots with broken symmetry observed by micro/Hall magnetometry, AIP Adv. 5 (2015) 117205. IF: 1,52

35.) Štúdium metód návrhu a zhotovenia cievok z vodiča s kruhovým prierezom na báze vysokoteplotného supravodiča *(Investigation of design and manufacturing methods for coils from round high-temperature superconducting conductor)*

Zodpovedný riešiteľ:	Ján Šouc
Trvanie projektu:	1.7.2015 / 31.12.2018
Evidenčné číslo projektu:	14-0438
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 32005 €

36.) Tranzistory na báze progresívnych materiálov pre vysoké teploty *(Transistors on the base of progressive materials for high temperatures)*

Zodpovedný riešiteľ:	Gabriel Vanko
Trvanie projektu:	1.10.2013 / 30.9.2016
Evidenčné číslo projektu:	0455-12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 83155 €

Dosiahnuté výsledky:
Projekt sa zaoberá problematikou návrhu, procesnej technológie a charakterizácie AlGaN/GaN tranzistorov s vysokou pohyblivosťou elektrónov schopných pracovať pri zvýšených teplotách (500-800°C).
Pri raste heteroštruktúr AlGaN/GaN na substráte Si vzniká dôsledkom mriežkových neprispôsobení ale i vysokých depozičných teplôt vo vrstvách mechanické napätie, ktoré pri tvarovaní mikromechanických štruktúr spôsobuje ich praskanie, resp. lámanie. Práce v oblasti simulácie preto viedli k návrhom mikromechanických štruktúr s minimálnym mechanickým napätím. Po tvarovaní zmienených MEMS štruktúr sme sa venovali rastu diamantu na planárnom i reliéfnom povrchu GaN.

Dzuba, J., Vanko, G., Držík, M., Rýger, I., Kutiš, V., Zehetner, J., Lalinský, T., : AlGaN/GaN diaphragm-based pressure sensor with direct high performance piezoelectric transduction mechanism. Applied Phys. Lett. 107 (2015) 122102.

Dzuba, J., Vanko, G., Vojs, M., Rýger, I., Ižák, T., Jirásek, V., Kutiš, V., Lalinský, T., : Finite element analysis of AlGaN/GaN micro-diaphragms with diamond Proc. SPIE 9517 (2015) 95171I.

Dzuba, J., Vanko, G., Držík, M., Rýger, I., Vallo, M., Kutiš, V., Haško, D., Choleva, P., Lalinský, T., : Stress investigation of the AlGaN/GaN micromachined circular diaphragms of a pressure sensor. J. Micromech. Microengn. 25 (2015) 015001.

Zehetner, J., Vanko, G., Dzuba, J., Rýger, I., Lalinský, T., Benkler, M., Lucki, M., : Laser ablation for membrane processing of AlGaN/GaN- and micro structured ferroelectric thin film MEMS and SiC pressure sensors for extreme conditions Proc. SPIE 9517 (2015) 951721.

37.) Nové polovodičové detektory neutrónov *(New semiconductor detectors of neutrons)*

Zodpovedný riešiteľ:	Bohumír Zaťko
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	0321-11
Organizácia je koordinátorom projektu:	nie
Koordinátor:	ÚJFI FEI STU Bratislava
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 26761 €

Dosiahnuté výsledky:
Zaťko, B., Dubecký, F., Šagátová, A., Sedláčková, K., Ryć, L., : High resolution alpha particle detectors based on 4H-SiC epitaxial layer. J. Instrument. 10 (2015) C04009.

Huran, J., Mikolášek, M., Boháček, P., Kleinová, A., Sasinková, V., Kobzev, A., Sekáčová, M., Arbet, J., : HWCD technology of silicon carbide thin films: properties In: Proc. ADEPT. 3st Inter. Conf. on Advan. in Electronic and Photonic Technol. Eds. D. Pudis et al. Žilina: Univ. Žilina 2015. ISBN 978-80-554-1033-3. P. 104-107.

Boháček, P., Zaťko, B., Šagátová, A., Hybler, P., Sekáčová, M., : Influence of 5 MeV electron irradiation on galvanomagnetic parameters of semi-insulating GaAs In: Proc. 21th Inter. Conf. on Applied Phys. of Cond. Matter (APCOM 2015). Eds. J. Vajda and I. Jamnický. Bratislava: FEI

STU 2015. ISBN 978-80-227-4373-0. P. 234-237.

Dubecký, F., Kindl, D., Hubík, P., Oswald, J., Mičušík, M., Gombia, E., Boháček, P., Sekáčová, M., Zaťko, B., Šagátová, A., : Peculiarities of metal contacts on semi-insulating GaAs: electrical, photoelectronic and XPS characterization In: Proc. 21th Inter. Conf. on Applied Phys. of Cond. Matter (APCOM 2015). Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2015. ISBN 978-80-227-4373-0. P. 216-220.

Dubecký, F., Kindl, D., Hubík, P., Gombia, E., Boháček, P., Sekáčová, M., : Role of the metal contact in electrical transport through M/S-GaAs/M structures In: Proc. ADEPT. 3st Inter. Conf. on Advan. in Electronic and Photonic Technol. Eds. D. Pudis et al. Žilina: Univ. Žilina 2015. ISBN 978-80-554-1033-3. P. 112-115.

Sedláčková, K., Zaťko, B., Šagátová, A., Nečas, V., : The effect of contacts on energy resolution of SiC semiconductor detector in alpha-particle spectrometry In: Proc. 21th Inter. Conf. on Applied Phys. of Cond. Matter (APCOM 2015). Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2015. ISBN 978-80-227-4373-0. P. 258-262.

Zaťko, B., Šagátová, A., Boháček, P., Sekáčová, M., Nečas, V., : The effect of high-energy electrons irradiation on the current-voltage characteristics of Schottky barriers detectors based on semi-insulating GaAs In: Proc. 21th Inter. Conf. on Applied Phys. of Cond. Matter (APCOM 2015). Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2015. ISBN 978-80-227-4373-0. P. 154-157.

Programy: Štrukturálne fondy EÚ Výskum a vývoj

38.) Univerzitný vedecký park STU Bratislava *(University Science Park of STU Bratislava)*

Zodpovedný riešiteľ:	Vladimír Cambel
Trvanie projektu:	1.2.2013 / 31.12.2015
Evidenčné číslo projektu:	ITMS: 26240220084
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Slovenská technická univerzita v Bratislave
Počet spoluriešiteľských inštitúcií:	4 - Slovensko: 4
Čerpané financie:	

39.) Kompetenčné centrum pre nové materiály, pokročilé technológie a energetiku *(Center of competence for new materials, advanced technologies and energetics)*

Zodpovedný riešiteľ:	Karol Fröhlich
Trvanie projektu:	1.8.2011 / 30.11.2015
Evidenčné číslo projektu:	26240220073
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	15 - Slovensko: 15
Čerpané financie:	ASFEU: 620684 €

40.) Centrum aplikovaného výskumu nových materiálov a transféru technológií *(Centre for applied research of new materials and technology transfer)*

Zodpovedný riešiteľ:	Juraj Lapin
Zodpovedný riešiteľ v organizácii SAV:	Vladimír Cambel
Trvanie projektu:	1.10.2013 / 30.9.2015
Evidenčné číslo projektu:	ITMS 26240220088
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	6 - Slovensko: 6
Čerpané financie:	

41.) Výskum prípravy moderného polovodičového materiálu a substrátov VGF GaP o priemere 100 mm pre potreby konverzie CO2 na užitočné chemikálie *(Research and development of advanced semiconductor material and substrates VGF GaP with 100 nm diameter for conversion of CO2 into value addeed chemicals)*

Zodpovedný riešiteľ:	Jozef Novák
Trvanie projektu:	1.2.2012 / 30.11.2015
Evidenčné číslo projektu:	ITMS 26220220172
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Phostec s.r.o.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	ASFEU: 560782 €

42.) Výskumné centrum ALLEGRO

Zodpovedný riešiteľ:	Jaromír Pastorek
Zodpovedný riešiteľ v organizácii SAV:	Vladimír Cambel
Trvanie projektu:	1.10.2014 / 31.12.2015
Evidenčné číslo projektu:	26220220198
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	4 - Slovensko: 4
Čerpané financie:	ASFEU: 16152 €

43.) Výskumno-vývojové centrum pre pokročilé rtg technológie *(Research and development center for advanced X-ray technologies)*

Zodpovedný riešiteľ:	Bohumír Zaťko
Trvanie projektu:	1.6.2012 / 30.6.2015

Evidenčné číslo projektu:	ITMS 26220220170
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Integra TDS, s. r. o.
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	ASFEU: 351653 €

Programy: SASPRO

44.) Návrh a príprava hybridných štruktúr na báze diamantu a nitridu gália *(Design and Fabrication of Diamond-on-GaN Hybrid Structures for MEMS)*

Zodpovedný riešiteľ:	Oleg Babchenko
Trvanie projektu:	1.5.2015 / 30.4.2018
Evidenčné číslo projektu:	0068/01/01
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 31415 €

45.) Tepelno-elektrická stabilita supravodičov pri nekonvenčných spôsoboch chladenia *(Thermo-electrical stability of superconductors in unconventional cooling conditions)*

Zodpovedný riešiteľ:	Michal Vojenčiak
Trvanie projektu:	1.4.2015 / 31.3.2017
Evidenčné číslo projektu:	0061/01/01
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 41487 €

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

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

ABC01 LOBOTKA, Peter - KUNZO, Pavol. Carbon nanoparticles/polymer composites for sensing. In Handbook of Polymer Nanocomposites : processing, Performance and Application. Vol. B.Carbon Nanotube Based Polymer Composites. - Berlin : Springer, 2015, p. 577-601. ISBN 978-3-642-45228-4.

ADCA Vedecké práce v zahraničných karentovaných časopisoch impaktovaných

ADCA01 AMARO, N. - ŠOUC, Ján - MURTA-PINA, J. - MARTINS, J. - CEBALLOS, J.M. - GÖMÖRY, Fedor. Contactless loop method for measurement of AC losses in HTS coils. In IEEE Transactions on Applied Superconductivity, 2015, vol. 25, 9000604. (1.235 - IF2014). (2015 - Current Contents). ISSN 1051-8223.

ADCA02 BERTÓK, Tomáš - HOLAZOVÁ-ŠEDIVÁ, Alena - FILIP, Jaroslav - ILČÍKOVÁ, Markéta - KASÁK, Peter - VELIČ, Dušan - JÁNÉ, Eduard - MRAVCOVÁ, Martina - ROVENSKÝ, Jozef - KUNZO, Pavol - LOBOTKA, Peter - ŠMATKO, Vasilij - VIKARTOVSKÁ, Alica, Welwardová - TKÁČ, Ján. Carboxybetaine modified interface for electrochemical glycoprofiling of antibodies isolated from human serum. In Langmuir. - Wahington : American Chemical Society, 2015, vol. 31, p. 7148-7157. (4.457 - IF2014). (2015 - Current Contents). ISSN 0743-7463.

ADCA03 BLAHO, Michal - GREGUŠOVÁ, Dagmar - HAŠČÍK, Štefan - JURKOVIČ, Michal - ŤAPAJNA, Milan - FRÖHLICH, Karol - DÉRER, Ján - CARLIN, J.-F. - GRANDJOUAN, G. - KUZMÍK, Ján. Self-aligned normally-off metal-oxide-semiconductor n+++GaN/InAlN/GaN high-electron mobility transistors. In Physica Status Solidi A, 2015, vol. 212, p. 1086-1090. (1.616 - IF2014). (2015 - Current Contents). ISSN 1862-6300.

ADCA04 BLASCO, J. - JANČOVIČ, Peter - FRÖHLICH, Karol - SUñÉ, J. - MIRANDA, E. Modeling of the switching I-V characteristics in ultrathin (5nm) atomic layer deposited HfO2 films using the logistic hysteron. In Journal of Vacuum Science and Technology B.Microelectronics and Nanometer Structures, 2015, vol. 33, 01A102. (1.464 - IF2014). (2015 - Current Contents). ISSN 1071-1023.

ADCA05 BRUNNER, Boris - WINDBICHLER, A. - REISSNER, M. - KOVÁČ, Pavol - HUŠEK, Imrich. Comparison of critical current density and pinning behaviour of mono-core MgB2 wires prepared by different method. In Journal of Superconductivity and Novel Magnetism, 2015, vol. 28, p. 443-446. (0.909 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 1557-1939.

ADCA06 BYSTRITSKY, V.M. - BYSTRITSKII, Vit.M. - DUDKIN, G.N. - FILIPOWICZ, M. - GAŽI, Štefan - HURAN, Jozef - MESYATS, G.A. - NECHAEV, B.A. - PADALKO, V.N. - PARZHITSKII, S.S. - PENKOV, F.M. - PHILIPPOV, A.V. - TULEUSHEV, Yu.Zh. Effect of the crystal structure of a deuterated target on the yield of neutrons in the dd reaction at ultralow energies. In JETP Letters, 2014, vol. 99, p. 497-502. (1.364 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0021-3640.

ADCA07 ČIČO, Karol - JANČOVIČ, Peter - DÉRER, Ján - ŠMATKO, Vasilij - ROSOVÁ, Alica - BLAHO, Michal - HUDEC, Boris - GREGUŠOVÁ, Dagmar - FRÖHLICH, Karol. Resistive switching in nonplanar HfO2-based structures with variable series resistance. In Journal of Vacuum Science and Technology B.Microelectronics and Nanometer Structures, 2015, vol. 33, 01A108. (1.464 - IF2014). (2015 - Current Contents). ISSN 1071-1023.

ADCA08 DEMENČÍK, Eduard - GRILLI, F. - KARIO, A. - NAST, R. - JUNG, A. - VOJENČIAK, Michal - SCHEITER, J. - GOLDACKER, W. AC magnetization loss and transverse resistivity of striated YBCO coated conductors. In IEEE Transactions on Applied Superconductivity, 2015, vol. 25, 8201405. (1.235 - IF2014). (2015 - Current Contents). ISSN 1051-8223.

ADCA09 DZUBA, Jaroslav - VANKO, Gabriel - DRŽÍK, Milan - RÝGER, Ivan - KUTIŠ, V. -

ZEHETNER, J. - LALINSKÝ, Tibor. AlGaN/GaN diaphragm-based pressure sensor with direct high performance piezoelectric transduction mechanism. In Applied Physics Letters, 2015, vol. 107, 122102. (3.302 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0003-6951.

ADCA10 DZUBA, Jaroslav - VANKO, Gabriel - DRŽÍK, Milan - RÝGER, Ivan - VALLO, Martin - KUTIŠ, V. - HAŠKO, D. - CHOLEVA, P. - LALINSKÝ, Tibor. Stress investigation of the AlGaN/GaN micromachined circular diaphragms of a pressure sensor. In Journal of Micromechanics and Microengineering, 2015, vol. 25, 015001. (1.731 - IF2014). (2015 - Current Contents). ISSN 0960-1317.

ADCA11 FEILHAUER, Juraj - APEL, W. - SCHWEITZER, L. Merging of the Dirac points in electronic artificial graphene. In Physical Review B, 2015, vol. 92, 245424. (3.736 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 1098-0121.

ADCA12 FILO, J. - MIŠICÁK - CIGÁŇ, Marek - WEIS, Martin - JAKABOVIČ, J. - GMUCOVÁ, Katarína - PAVUK, M. - DOBROČKA, Edmund - PUTALA, Martin. Oligothiophenes with the naphthalene core for organic thin-film transistors: variation in positions of bithiophenyl attachment to the naphthalene. In Synthetic Metals, 2015, vol. 202, p. 73-81. (2.252 - IF2014). (2015 - Current Contents). ISSN 0379-6779.

ADCA13 FULAJTÁROVÁ, K. - SOTÁK, T. - HRONEC, M. - VÁVRA, Ivo - DOBROČKA, Edmund - OMASTOVÁ, Mária. Aqueous phase hydrogenation of furfural to furfural alcohol over Pd-Cu catalysts. In Applied Catalysis A: General, 2015, vol. 502, p. 78-85. (3.942 - IF2014). (2015 - Current Contents). ISSN 0926-860X.

ADCA14 GÖMÖRY, Fedor - ŠOUC, Ján - VOJENČIAK, Michal - SOLOVYOV, Mykola. Round conductor with low AC loss made from high-temperature superconducting tapes. In IEEE Transactions on Applied Superconductivity, 2015, vol. 25, 8201004. (1.235 - IF2014). (2015 - Current Contents). ISSN 1051-8223.

ADCA15 GÖMÖRY, Fedor - SOLOVYOV, Mykola - ŠOUC, Ján. Magnetization loop modelling for superconducting/ferromagnetic tube of an ac magnetic cloak. In Superconductor Science and Technology, 2015, vol. 28, 044001. (2.325 - IF2014). (2015 - Current Contents). ISSN 0953-2048.

ADCA16 GÖMÖRY, Fedor - SOLOVYOV, Mykola - ŠOUC, Ján - VOJENČIAK, Michal - ŠVEC, Peter. Dissipation in superconductor/ferromagnet multilayers for AC magnetic cloating. In Journal of Superconductivity and Novel Magnetism, 2015, vol. 28, p. 725-729. (0.909 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 1557-1939.

ADCA17 GUCMANN, Filip - KÚDELA, Róbert - KORDOŠ, Peter - DOBROČKA, Edmund - GAŽI, Štefan - DÉRER, Ján - LIDAY, J. - VOGRINČIČ, P. - GREGUŠOVÁ, Dagmar. III-As heterostructure field-effect transistors with recessed ex-situ gate oxide by O2 plasma-oxidized GaAs cap. In Journal of Vacuum Science and Technology B.Microelectronics and Nanometer Structures, 2015, vol. 33, 01A111. (1.464 - IF2014). (2015 - Current Contents). ISSN 1071-1023.

ADCA18 GUROV, J.B. - ROZOV, S.V. - SANDUKOVSKIJ, V.G. - YAKUSHEV, E.A. - HRUBČÍN, Ladislav - ZAŤKO, Bohumír. Characteristics of silicon carbide detectors. In Instruments and Experimental Techniques, 2015, vol. 58, p. 22-24. (0.331 - IF2014). (2015 - Current Contents). ISSN 0020-4412.

ADCA19 IAVARONE, M. - MOORE, S.A. - FEDOR, Ján - NOVOSAD, V. - PEARSON, J.A. - KARAPETROV, Goran. Influence of domain width on vortex nucleation in superconductor/ferromagnet hybrid structures. In Journal of Superconductivity and Novel Magnetism, 2015, vol. 28, p. 1107-1110. (0.909 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 1557-1939.

ADCA20 IŽÁK, T. - VANKO, Gabriel - BABCHENKO, O. - POTOCKÝ, Štěpán - MARTON, M. - VOJS, M. - CHOLEVA, P. - KROMKA, A. Diamond-coated three-dimensional GaN micromembranes: Effect of nucleation and deposition techniques. In Physica status solidi B. Basic solid state physics, 2015, vol. 252, p. 2585-2590. (1.489 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0370-1972.

ADCA21 JAKUBISOVÁ, E. - VIŠŇOVSKÝ, Š. - ŠIROKÝ, P. - HRABOVSKÝ, D. - PIŠTORA, J. - VÁVRA, Ivo - DOBROČKA, Edmund - KRIŠŤAN, P. - ŠTĚPÁNKOVÁ, Hana - HARWARD, I. - CELINSKI, Z. Magneto-optical studies of BaFe12O19 films grown by metallo-organic decomposition. In Optical Materials Express, 2015, vol. 5, p. 1323-1330.

(2.844 - IF2014). (2015 - Current Contents). ISSN 2159-3930.

ADCA22 JÄRVELÄ, J. - LYLY, M. - STENVALL, A. - JUNTUNEN, R. - ŠOUC, Ján - MIKKONEN, R. Design, fabrication and testing of a low AC-loss conduction-cooled cryostat for magnetization loss measurement apparatus. In IEEE Transactions on Applied Superconductivity, 2015, vol. 25, 8200308. (1.235 - IF2014). (2015 - Current Contents). ISSN 1051-8223.

ADCA23 KARIO, A. - VOJENČIAK, Michal - GRILLI, F. - KLING, A. - JUNG, A. - BRAND, J. - KUDYMOW, A. - WILLMS, J. - WALSCHBURGER, U. - ZERMONO, V. - GOLDACKER, W. DC and AC characterization of pancake coils made from Roebel-assembled coated conductor cable. In IEEE Transactions on Applied Superconductivity, 2015, vol. 25, 4700104. (1.235 - IF2014). (2015 - Current Contents). ISSN 1051-8223.

ADCA24 KOVÁČ, Ján - ŠOUC, Ján - KOVÁČ, Pavol - HUŠEK, Imrich. Magnetization AC losses in MgB2 wires made by IMD process. In Superconductor Science and Technology, 2015, vol. 28, 015013. (2.325 - IF2014). (2015 - Current Contents). ISSN 0953-2048.

ADCA25 KOVÁČ, Ján - ŠOUC, Ján - KOVÁČ, Pavol - HUŠEK, Imrich. AC losses of single-core MgB2 wires with different metallic sheaths. In Physica C, 2015, vol. 519, p. 95-99. (0.942 - IF2014). (2015 - Current Contents). ISSN 0921-4534.

ADCA26 KOVÁČ, Jaroslav Jr. - HRONEC, P. - BÚC, D. - ŠKRINIAROVÁ, J. - ŠUTTA, P. - KOVÁČ, Jaroslav - NOVÁK, Jozef. Study of ZnO nanostructures grown by a hydrothermal process on GaP/ZnO nanowires. In Applied Surface Science, 2015, vol. 337, p. 254-258. (2.711 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0169-4332.

ADCA27 KOVÁČ, Pavol - KOPERA, Ľubomír - MELIŠEK, Tibor - SARMIENTO, G. - SANZ CASTILLO, S. - BRISIGOTTI, S. - NARDELLI, D. - TROPEANO, M. Tensile and bending strain tolerance of ex-situ MgB2/Ni/Cu superconductor tape. In IEEE Transactions on Applied Superconductivity, 2015, vol. 25, 6200607. (1.235 - IF2014). (2015 - Current Contents). ISSN 1051-8223.

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AEE01 ELIÁŠ, Peter - KOSTIČ, Ivan - HASENÖHRL, Stanislav. Polar diagram of wet-etched (100) InP. In 14th Indium Phosphide and Related Materials Conference : Proceedings. - Piscataway : IEEE, 2002, p. 229. ISBN 1092-8669.
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AEF01 GÖMÖRY, Fedor - CESNAK, Ladislav - KLABÍK, V. - PLECHÁČEK, Václav. Small superconducting solenoid wound from non-insulated unstabilized multifilamentary Nb3Sn conductor. In Cryopraque 86. - Praha : Inst. Inter. du Froid, 1986, s. 197.
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3. [1.1] SENATORE, C. - ALESSANDRINI, M. - LUCARELLI, A. - TEDIOSI, R. - UGLIETTI, D. - IWASA, Y. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. OCT 2014, vol. 27, no. 10., WOS
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FAI01 Heterostructure Epitaxy and Devices - HEAD '97 : Proceedings of the Conference. Eds.: P. Kordoš, Jozef Novák. Dordrecht : Kluwer Academic Publ., 1998. NATO ASI Series.
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1. [1.1] SBIAAI, K. - BOUGHALEB, Y. - BOUNOUAS, L. - SAHRAOUI, B. In 2013 15TH INTERNATIONAL CONFERENCE ON TRANSPARENT OPTICAL NETWORKS (ICTON 2013). 2013., WOS

GII Rôzne publikácie a dokumenty, ktoré nemožno zaradiť do žiadnej z predchádzajúcich kategórií

GII01 LALINSKÝ, Tibor - HUDEK, Peter - VANKO, Gabriel - CHOLEVA, P. - VALLO, Martin - MATAY, Ladislav - KOSTIČ, Ivan - DRŽÍK, Milan. Micromachined pressure sensors based on AlGaN/GaN circular HEMT sensing devices. In MNE 2011 : 37th International Conference on Micro Nano Engineering. - Berlin, 2011.
Citácie:
1. [1.1] KO, S.C. - MIN, B.G. - PARK, Y.R. - KIM, J.J. - SUNG, H.K. - MUN, J.K. - NAM, E.S.. In JOURNAL OF MICROMECHANICS AND MICROENGINEERING. MAR 2013, vol. 23, no. 3., WOS

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

doc. RNDr. Martin Moško, DrSc.
Názov semestr. predmetu: Elektróny v neusporiadaných a mezoskopických systémoch
Počet hodín za semester: 48
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra fyziky

doc. RNDr. Martin Moško, DrSc.
Názov semestr. predmetu: Termodynamika materiálov a štatistická fyzika
Počet hodín za semester: 60
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav jadrového a fyzikálneho inžinierstva

doc. RNDr. Martin Moško, DrSc.
Názov semestr. predmetu: Úvod do mezoskopickej fyziky
Počet hodín za semester: 26
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra fyziky

Semestrálne cvičenia:

Semináre:

Terénne cvičenia:

Ing. Ján Šoltýs, PhD
Názov semestr. predmetu: Polovodiče
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav jadrového a fyzikálneho inžinierstva

Individuálne prednášky:

Ing. Peter Lobotka, CSc.
Názov semestr. predmetu: Nanotechnológie
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav jadrového a fyzikálneho inžinierstva

doc. RNDr. Martin Moško, DrSc.
Názov semestr. predmetu: Jednoelektrónové tunelovanie a Coulombovská blokáda
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav jadrového a fyzikálneho inžinierstva

Príloha E

Medzinárodná mobilita organizácie

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

Krajina	**D r u h d o h o d y**					
	MAD, KD, VTS		**Medziústavná**		**Ostatné**	
	Meno pracovníka	**Počet dní**	**Meno pracovníka**	**Počet dní**	**Meno pracovníka**	**Počet dní**
Belgicko					Fedor Gömöry	3
					Fedor Gömöry	2
					Peter Lobotka	2
Bulharsko	Michaela Sojková	7				
	Vladimír Štrbík	7				
Česko	František Dubecký	4			Jaroslav Dzuba	1
	Bohumír Zaťko	5			Peter Lobotka	3
					Peter Lobotka	2
					Ivan Rýger	1
					Ján Šoltýs	1
					Marianna Španková	1
					Marianna Španková	1
					Marianna Španková	1
					Vladimír Štrbík	1
					Vladimír Štrbík	1
					Vladimír Štrbík	1
					Gabriel Vanko	1
					Ivo Vávra	2
					Ivo Vávra	1
					Ivo Vávra	1
					Ivo Vávra	1
					Ivo Vávra	2
					Bohumír Zaťko	6
					Bohumír Zaťko	6
Estónsko	Jana Brndiarová	10				
Fínsko					Ján Kuzmík	4

Francúzsko					Fedor Gömöry	2
					Enric Pardo	2
Izrael	Štefan Chromik	10				
Japonsko					Dagmar Gregušová	16
					Michal Vojenčiak	7
Maďarsko					Pavol Kunzo	2
					Peter Lobotka	5
					Peter Lobotka	3
					Peter Lobotka	2
					Peter Lobotka	4
Nemecko					Jana Brndiarová	63
					Martin Hulman	1
					Pavol Kováč	3
					Pavol Kováč	3
					Michal Vojenčiak	3
					Michal Vojenčiak	27
Poľsko	Štefan Chromik	5			Pavol Kováč	4
					Pavol Kováč	5
					Miloslav Kulich	5
Rakúsko					Michal Blaho	2
					Dagmar Gregušová	2
					Martin Hulman	2
					Ján Kuzmík	1
					Ján Kuzmík	2
					Peter Lobotka	1
					Ivan Rýger	1
					Ján Šouc	1
					Milan Ťapajna	2
Rusko					Jozef Huran	52
					Jozef Huran	33
					Daniel Machajdík	84
Španielsko					Fedor Gömöry	3
					Pavol Kováč	3
Švajčiarsko					Ján Kuzmík	7
					Peter Lobotka	3
Taiwan					Jozef Osvald	8

Taliansko	František Dubecký	10			Fedor Gömöry	3
	Dušan Korytár	7			Michal Vojenčiak	3
	Zdenko Zápražný	7				
Turecko					Peter Lobotka	5
					Michaela Sojková	5
USA					Vladimír Cambel	6
					Ján Fedor	13
					Ján Fedor	15
					Ján Fedor	18
Veľká Británia					Zdenko Zápražný	10
Počet vyslaní spolu	**10**	**72**			**67**	**487**

(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					Klementová M.	4
Čína					S. Jie	25
Japonsko					Nagasaki Y.	20
Nemecko					Godfrin A.	5
					Kario A.	12
					Niu G.	4
Turecko					Kilic A.	12
					R. Terzioglu	90
					Safran S.	12
Počet prijatí spolu					**9**	**184**

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

Krajina	**Názov konferencie**	**Meno pracovníka**	**Počet dní**
Belgicko	EERA	Fedor Gömöry	2
	ISPC	Jozef Huran	6
	ITW	Zdenko Zápražný	4
Brazília	ISPM	Ján Šoltýs	9
Česko	KIST	Martin Hulman	3
	NanoOstrava	Ivo Vávra	5
	RTG	Edmund Dobročka	2
		Dušan Korytár	2
	ST	Edmund Dobročka	4
	VTDN	Štefan Haščík	1
	WLM	Martin Hulman	2
Čierna Hora	RAD	Jozef Huran	7

Čína	ICNS	Ján Kuzmík	5
		Jozef Osvald	5
Dánsko	REM	Bohumír Zaťko	4
Estónsko	ALD	Jana Brndiarová	5
		Karol Fröhlich	5
Francúzsko	EUCAS 2015	Fedor Gömöry	7
		Milan Kapolka	7
		Ján Kováč	7
		Pavol Kováč	7
		Miloslav Kulich	7
		Enric Pardo	7
		Michal Vojenčiak	7
Grécko	ICANT	Bohumír Zaťko	7
Holandsko	MNE	Gabriel Vanko	2
Japonsko	ISS	Michal Vojenčiak	3
	NDNC	Gabriel Vanko	8
	SSDM	Milan Ťapajna	4
	TWHM	Michal Blaho	4
		Ján Kuzmík	4
	WCSHTSA	Fedor Gömöry	6
Kórejská republika	MT 24	Fedor Gömöry	6
		Enric Pardo	6
Nemecko	SEIOB	Ján Šoltýs	3
	W4C	Martin Hulman	3
Poľsko	EMRS	Dagmar Gregušová	6
Rakúsko	ASJM	Boris Brunner	1
	IWEPNM	Jana Brndiarová	8
Španielsko	SPIE	Jaroslav Dzuba	5
Švédsko	EWMOVPE	Stanislav Hasenöhrl	4
	EWMVOP	Peter Eliáš	5
Taliansko	HTS	Fedor Gömöry	3
		Michal Vojenčiak	3
	SURFINT	Oleg Babchenko	4
		Edmund Dobročka	4
		Jaroslav Dzuba	4
		Dagmar Gregušová	6
		Štefan Chromik	4
		Agáta Laurenčíková	4
		Jozef Novák	4
		Jozef Osvald	4
		Michaela Sojková	4
		Marianna Španková	4
		Vladimír Štrbík	4
		Gabriel Vanko	4
Turecko	ISSTC	Jozef Osvald	4
USA	ICXOM	Zdenko Zápražný	8
	IEEE	Bohumír Zaťko	9
	SPP	Jozef Huran	10
	TCWIC	Gabriel Vanko	4
Veľká Británia	NANOSMAT	Katarína Sečianska	5

		Jaroslav Tóbik	5
Spolu	**39**	**63**	**306**

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

Skratky použité v tabuľke C:

ALD - 13th International Baltic Conference on Atomic Layer Deposition
ASJM - Joint Annual Meeting of the Austrian Physical Society and the Swiss Physical Society
EERA - 5th European Energy Research Alliance Annual Congress 2015
EMRS - 2015 E-MRS Fall Meeting and Exhibit
EUCAS 2015 - European Conference on Applied Superconductivity
EWMOVPE - 16th European Workshop on Metalorganic Vapour Phase Epitaxy
EWMVOP - 16th European Workshop on Metalorganic Vapour Phase Epitaxy
HTS - HTS4Fusion Conductor Workshop
ICANT - 2015 International Conference on Applications of Nuclear Techniques
ICNS - 11th International Conference on Nitride Semiconductors
ICXOM - 23rd International Congress on X-ray Optics and Microanalysis
IEEE - 2015 IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC)
ISPC - 22nd International Symposium on Plasma Chemistry
ISPM - 17th International Scanning Probe Microscopy
ISS - 28th International Symposium on Superconductivity
ISSTC - International Semiconductor Science andTechnology Conference 2015
ITW - International Workshop on Industrial Tomography (InTo2015)
IWEPNM - 29th International Winterschool on Electronic Properties of Novel Materials
KIST - Bilateral Workshop on Composite Materials with sp2 -sp3 hybridizations
MNE - 41st International Conference on Micro-and Nano-Engineering
MT 24 - 24th International Conference on Magnet Technology
NanoOstrava - 4th Nanomaterials and Nanotechnology Meeting 2015
NANOSMAT - 10th International Conference on Surfaces, Coatings and Nanostructured Materials
NDNC - 9th International Conference on New Diamonds and Nano Carbons 2015
RAD - Third International Conference on Radiation and Applications in Various Fields of Research
REM - 8th Meeting on Recent Developments in the Study of Radiation Effects in Matter
RTG - 298. Rozhovory: Krystalografie a rtg metody studia materiálů
SEIOB - 21st Seminar on Electron and Ion Beam Based Fabrication for Nanotechnology
SPIE - SPIE Microtechnologies 2015
SPP - 68th Annual Gaseous Electronics Conference/9th International Conference on Reactive Plasmas/33rd Symposium on Plasma Processing
SSDM - 47th International Conference on Solid State Devices and Materials
ST - Struktura 2015
SURFINT - Progress in Applied Surface, Interface and Thin Film Science 2015
TCWIC - TechConnect World Innovation Conference
TWHM - 11th Topical Workshop on Heterostructure Microelectronics
VTDN - Vakuové techniky a detekce netěsnosti
W4C - The workshop on 4C11 – low dimensional carbon
WCSHTSA - International Workshop on Cooling-system for HTS Applications
WLM - Workshop on low-dimensional materials