

Elektrotechnický ústav SAV



**Správa o činnosti organizácie SAV
za rok 2016**

Bratislava
január 2017

Obsah osnovy Správy o činnosti organizácie SAV za rok 2016

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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	113	82	31	21	7	108	89,17	59,03
Vedeckí pracovníci	58	51	7	13	2	53	48,63	46,8
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	19	13	6	5	3	19	11,2	9,97
Odborní pracovníci VŠ (ostatní zamestnanci ²)	7	2	5	1	2	7	5,33	0,13
Odborní pracovníci ÚS	20	12	8	2	0	20	17,41	2,13
Ostatní pracovníci	9	4	5	0	0	9	6,6	0

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

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

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2016 (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 31.12.2016 (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 31.12.2016)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	11	38	0	5	12	23	16
Ženy	1	6	0	0	1	2	4

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

Veková štruktúra (roky)	< 31	31-35	36-40	41-45	46-50	51-55	56-60	61-65	> 65
Muži	12	8	8	2	2	1	8	13	7
Ženy	2	2	0	0	1	1	4	1	0

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2016

	Kmeňoví zamestnanci		Vedeckí pracovníci		Riešitelia projektov	
	Bez úväzku	S úväzkom	Bez úväzku	S úväzkom	Bez úväzku	S úväzkom
Muži	49,4	40,5	48,8	41,8	47,6	39,6
Ženy	51,2	43,1	45,1	40,0	47,4	41,2
Spolu	49,9	41,2	48,4	41,6	47,6	39,8

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

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Počet domácich projektov riešených v roku 2016

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2016 (v €)		
	A	B	A		B
			spolu	pre organizáciu	
1. Vedecké projekty, ktoré boli r. 2016 financované VEGA	13	3	120247	120247	12151
2. Projekty, ktoré boli r. 2016 financované APVV	13	4	740490	591704	70014
3. Projekty OP ŠF	0	1	-	-	-
4. Projekty centier excelentnosti SAV	0	0	-	-	-
5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	4	0	217950	217950	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Zoznam domácich projektov podaných v roku 2016

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2016	-	6	2
2. Projekty výziev OP ŠF podané r. 2016	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2016

Tabuľka 2c Zoznam medzinárodných projektov riešených v roku 2016

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2016 (v €)		
	A	B	A		B
			spolu	pre organizáciu	
1. Projekty 7. Rámcového programu EÚ a Horizont 2020	0	3	-	-	55288
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	7	6712	-	-
3. Projekty v rámci medzivládnych dohôd o vedecko-technickej spolupráci	2	0	-	-	-
4. Bilaterálne projekty	2	0	-	-	-
5. Podpora medzinárodnej spolupráce z národných zdrojov (MVTs, APVV,...)	1	9	25000	25000	225418
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 2016

Tabuľka 2d Počet projektov 7. RP EÚ a Horizont 2020 v roku 2016

	A	B
Počet podaných projektov v 7. RP EÚ		
Počet podaných projektov Horizont 2020		4

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. 2016 už bežalo nové programovacie obdobie Štrukturálnych fondov. Ústav podal ako partner 4 projekty s mimobratislavskými priemyselnými podnikmi, z toho jeden väčší (v celkovej sume okolo 20 mil. €). Tieto projekty zatiaľ neboli vyhodnotené, takže nevieme, či budú financované.

V tomto období by sme chceli podporiť vedecké tímy na EIÚ v Bratislave (do výšky 15% celkovej sumy pre EIÚ – umožnené výzvami), ako aj rozšíriť prístrojové vybavenie najmä o diagnostické zariadenia v Piešťanoch. Z hľadiska stavebných úprav EIÚ SAV podporuje rozvoj Piešťan – opravu budovy a obnovu mnohých laboratórií. Hoci celkové poslanie týchto laboratórií by malo byť skôr diagnostického charakteru, rozhodne však 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: Tvarovanie magnetického poľa pomocou kombinácie supravodivých a feromagnetických materiálov

Riešitelia: J. Šouc, M. Solovyov, F. Gömöry

Projekt v rámci ktorého sa dosiahol výsledok: APVV 0623-12

Účinnosť magnetického plášťa vyrobeného z komerčne dostupných materiálov bola testovaná overením jeho schopnosti potlačiť magnetické odozvy kovových a feromagnetických predmetov. Rozsah aplikovaného magnetického poľa bol od 0,1 do 10 mT a frekvencia okolo 50 až 60 Hz. Plášť je tvorený kombináciou vnútornej rúrky z vysokoteplotného supravodiča chladeného pomocou tekutého dusíka a vonkajšej rúrky vyrobenej z MnZn feritového prášku rozptýleného v plastickej hmote. Supravodič vo forme pásov je navinutý špirálovitým spôsobom na textitovú rúrku. Takáto konštrukcia je sľubná pre prípad, kedy by mal byť v plášti tienený objekt s rozmermi dosahujúcimi niekoľko centimetrov. Účinnosť modelu magnetického plášťa vyrobeného podľa tejto konštrukcie bola preukázaná pozorovaním 20 násobného zníženia magnetickej odozvy kovových alebo feromagnetických predmetov.

Výstupy:

Šouc, J., Solovyov, M., and Gömöry, F.: Hiding objects in AC magnetic fields of power grid frequency by two-shell ferromagnetic/superconducting cloak, *Applied Phys. Lett.* **109** (2016) 033507.

Solovyov, M., Šouc, J., Kováč, J., Gömöry, F., Mikulášová, E., Ušáková, M., and Ušák, E.: Design of magnetic cloak for experiments in AC regime, (Invited paper) *IEEE Trans. Applied Supercond.* **26** (2016) 0500206.

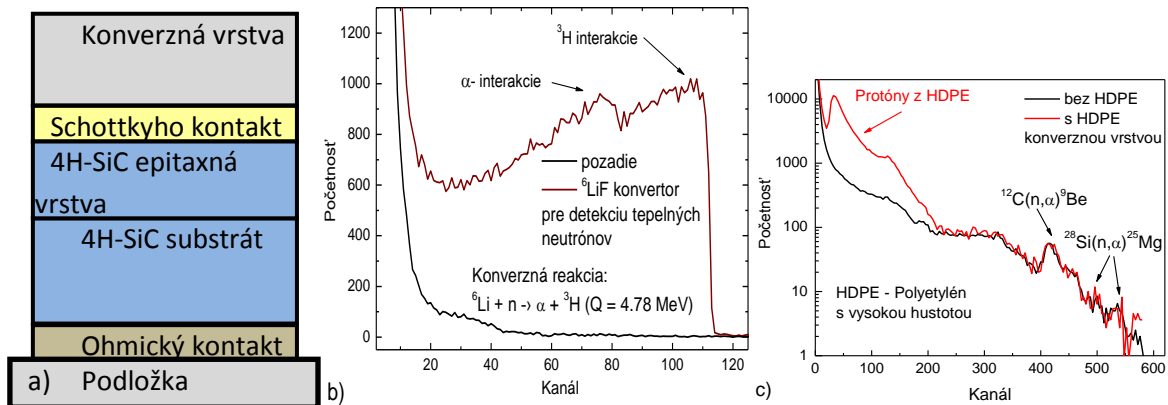
2.3.2. Aplikčný typ

Názov: Detektory neutrónov na báze 4H-SiC čistej epitaxnej vrstvy

Riešitelia: B. Zaťko, P. Boháček, F. Dubecký, J. Huran, M. Sekáčová, J. Arbet

Projekt v rámci ktorého sa dosiahol výsledok: VEGA 2/0152/16

Pripravili sme a optimalizovali 4H-SiC detekčné štruktúry so Schottkyho kontaktom pre detekciu rýchlych a tepelných neutrónov. Typicky využívané kremíkové detektory majú krátku životnosť kvôli vysokému faktoru poškodenia neutrónmi. Preto sa skúmajú nové polovodičové materiály s vyššou odolnosťou a jedným z kandidátov je aj SiC, ktorý je okrem toho schopný pracovať aj pri teplotách niekoľko sto °C. Predpokladané využitie SiC detektora neutrónov je v blízkosti jadrových resp. fúzných reaktorov pre monitorovanie neutrónového toku. Vhodnou voľbou konverznej vrstvy môžeme meniť citlivosť pre rôzne typy neutrónov (napr. tepelné, rýchle). Našou úlohou bola optimalizácia elektrických a detekčných parametrov využitím simulačných nástrojov a následná realizácia SiC detektorov a experimentálne overenie.



Obr.: Rez štruktúry 4H-SiC detektora (a), spektrálna odozva na tepelné neutróny (b) a odozva pre 15 MeV rýchle neutróny bez a s HDPE konverznou vrstvou (c).

Výstupy:

- Zaľko, B., Šagátová, A., Sedláčková, K., Nečas, V., Dubecký, F., Solar, M., and Granja, C.: Detection of fast neutrons from D-T nuclear reaction using 4H-SiC radiation detector. *Inter. J. Modern Phys.: Conf. Ser.* 44 (2016) 1660235.
- Sedláčková, K., Šagátová, A., Zaľko, B., Nečas, V., Solar, M., and Granja, C.: MCNPX simulations of the silicon carbide semiconductor detector response to fast neutrons from D-T nuclear reaction. *Inter. J. Modern Phys.: Conf. Ser.* 44 (2016) 1660226.
- Zaľko, B., Šagátová, A., Sedláčková, K., Boháček, P., Sekáčová, M., Kohout, Z., Granja, C., and Nečas, V.: Radiation detector based on 4H-SiC used for thermal neutron detection. *J. Instrument.* 11 (2016) C11022.
- Zaľko, B., Hrubcín, L., Šagátová, A., Boháček, P., Dubecký, F., Sedláčková, K., Sekáčová, M., Arbet, J., Nečas, V., and Skuratov, V.: Particle detectors based on 4H-SiC epitaxial layer and their properties In: *ASDAM 2016*. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 141-144.

2.3.3. Medzinárodné vedecké projekty

Názov: Výskum spoľahlivosti hradlovej elektródy v spínacích GaN tranzistoroch pre vysoko-efektívne prevodníky napätia

Riešitelia: M. Ťapajna, O. Hilt, E. Bahat-Treidel, J. Würfl, a J. Kuzmík (EIÚ SAV a FBH, Berlín)

Medzinárodný program: Projekt 7RP EÚ HipoSwitch (<http://www.hiposwitch.eu>)

Aplikácia spínacích súčiastok – tranzistorov – na báze gálium-nitridu (GaN) môže výrazne znížiť straty vznikajúce v prevodníkoch napätia, využívajúcich spínacie tranzistory na báze kremíka. Pre porovnanie, potenciálne úspory energie pri plnom nasadení GaN tranzistorov predstavujú až 5% celkovo vyrábaného objemu elektrickej energie. Konzorcium medzinárodného projektu EÚ HipoSwitch, ktorého sme boli členom, malo za cieľ rozvinúť technologické zázemie pre túto technológiu v EÚ. Jedným z problémov identifikovaných počas implementácie projektu bola nízka odolnosť riadiaceho hradla spínacieho GaN tranzistora v zopnutom stave. V spolupráci s Ferdinand-Braun Institute v Berlíne sme skúmali mechanizmus degradácie hradiel spínacích GaN tranzistorov počas elektrického namáhania v takomto stave. Pomocou relevantných štatistických metód sme extrapolovali najvyššie prípustné (bezpečné) napätie, ktoré môže byť aplikované na tranzistor pri zachovaní jeho životnosti najmenej 10 rokov. Výsledky boli publikované na medzinárodnej konferencii a v prestížnom vedeckom časopise IEEE Electron Device Letters.

Výstupy:

1. **Ľapajna**, M., Hilt, O., Bahat-Treidel, E., Würfl, J., and **Kuzmík**, J.: Gate reliability investigation in normally-off p-type-gan cap/AlGaIn/GaN HEMTs under forward bias stress, IEEE Electron Device Lett. 37 (2016) 385 - 388.

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	A Počet v r. 2016/ doplňky z r. 2015	B Počet v r. 2016/ doplňky z r. 2015	C Počet v r. 2016/ doplňky z r. 2015
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	0 / 0	0 / 0	0 / 0
2. Vedecké monografie a monografické štúdie 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)	3 / 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 práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	52 / 0	0 / 0	1 / 0
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	11 / 5	0 / 0	0 / 0
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	0 / 0	0 / 0	0 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	5 / 0	0 / 0	0 / 0
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	18 / 0	0 / 0	0 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch	20 / 3	0 / 0	0 / 0

(AECA)			
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	1 / 0	0 / 0	0 / 0
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	0 / 2	0 / 0	0 / 0
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	1	0	0
18. Ostatné vydané periodiká	0	0	0
19. Vydané alebo editované zborníky z vedeckých podujatí (FAI)	1 / 0	0 / 0	0 / 0
20. Preklady vedeckých a odborných textov (EAJ)	0 / 0	0 / 0	0 / 0
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (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 Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu podľa IF z r. 2015 (zdroj JCR)	Q1	Q2	Q3	Q4	spolu
Počet článkov / doplnky	19/0	14/0	18/0	2/1	53/1
Kvartil vedeckého časopisu podľa SJR z r. 2015 (zdroj Scimago)					
Počet článkov	28/0	24/0	6/1	4/0	62/1

Tabuľka 2g Ohlasy

OHLASY	A Počet v r. 2015/ doplnky z r. 2014	B Počet v r. 2015/ doplnky z r. 2014
Citácie vo WOS (1.1, 2.1)	904 / 33	35 / 3
Citácie v SCOPUS (1.2, 2.2)	80 / 13	7 / 0
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	5 / 4	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	5 / 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 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	72
Prednášky a vývesky na domácich vedeckých podujatiach	29

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

Vávra, I. and Hronec, M.: Nanoporous metallic films for catalysis. 16th Joint Vacuum Conf. Portorož 2016.

Vojenčiak, M., Šouc, J., Gömöry F., Mozola, P., van der Laan, D., Kario, A., Nast, R., and Goldacker, W.: Theoretical and experimental study of a CORC cable AC loss and cooling concepts. ICSM 2016 - 5th International Conference of Superconductivity and Magnetism. Fethiye (Turecko) 2016.

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

Gregušová, D., Blaho, M., Haščík, Š., Ťapajna, M., and Kuzmík, J.: Semiconductor surface processing for GaN-based normally-off transistors. Solid State Surfaces and Interfaces - SSSI 2016. Piešťany 2016.

Chromik, Š., Sojková, M., Hulman, M., Vretenár, V., Dobročka, E., Rosová, A., Machajdík, D., and Kobzev, A.P.: The preparation and properties of MoS₂ two dimensional system prepared by different deposition methods. Solid State Surfaces and Interfaces - SSSI 2016. Piešťany 2016.

Novák, J.: Environmental applications of Gallium Phosphide based nanowires. Solid State Surfaces and Interfaces - SSSI 2016. Piešťany 2016.

Novák, J.: GaP nanowires – properties and applications. 20th Slovak - Czech - Polish Optical Conf. Wave Quantum Aspects of Contemp. Optics. Jasná 2016.

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

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 2016

2.7.1. Vynálezy, na ktoré bol udelený patent

Na Slovensku - počet patentov: 1

Číslo PV: P 288436

Mená autorov: Sojková Michaela, Chromik Štefan

Názov vynálezu: Spôsob tvarovania tenkých supravodivých vrstiev na báze tália

Majiteľ / spolumajiteľ: Elektrotechnický ústav SAV

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

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Dubecký František	APVV	1
	VEGA	1
Zat'ko Bohumír	APVV	2

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

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 2016

Forma	Počet k 31.12.2016				Počet ukončených doktorantúr v r. 2016					
	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	5	3	3	1	1	0	3	1	0	0
Interná z iných zdrojov	0	0	0	0	2	0	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0
Spolu	5	3	3	1	3	0	3	1	0	0
Súhrn	8		4		3		4		0	

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b Počty preradení z interných foriem na externé a z externej formy na interné

Pôvodná forma	Interná z prostriedkov SAV	Interná z prostriedkov SAV	Interná z iných zdrojov	Interná z iných zdrojov	Externá	Externá
Nová forma	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 2016 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. Michal Blaho	interné štúdium hradené z iných zdrojov	9 / 2011	11 / 2016	5.2.13 elektronika	RNDr. Dagmar Gregušová DrSc., Elektrotechnický ústav SAV	Fakulta elektrotechniky a informatiky STU

Ing. Boris Brunner	interné štúdium hradené z prostriedkov SAV	9 / 2013	10 / 2016	5.2.48 fyzikálne inžinierstvo	Ing. Pavol Kováč DrSc., Elektrotechnický ústav SAV	Fakulta elektrotechniky a informatiky STU
Ing. Tomáš Ščepka	interné štúdium hradené z iných zdrojov	9 / 2010	5 / 2016	5.2.48 fyzikálne inžinierstvo	RNDr. Vladimír Cambel DrSc., Elektrotechnický ústav SAV	Fakulta elektrotechniky a informatiky STU

Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.4. Zoznam akreditovaných študijných odborov s uvedením VŠ

Tabuľka 3d Zoznam akreditovaných študijných odborov s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

Názov študijného odboru (ŠO)	Číslo ŠO	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
fyzika kondenzovaných látok a akustika	4.1.3	Fakulta matematiky, fyziky a informatiky UK
elektronika	5.2.13	Fakulta elektrotechniky a informatiky STU
fyzikálne inžinierstvo	5.2.48	Fakulta elektrotechniky a informatiky STU

Tabuľka 3e Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do spoločných odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnotu alebo vyšší kvalifikačný stupeň
RNDr. Vladimír Cambel, DrSc. (elektronika)	doc. Ing. Fedor Gömöry, DrSc. (Elektrotechnická fakulta ŽU)	Mgr. Mykola Soloviov, PhD. (IIa)
doc. RNDr. Edmund Dobročka, CSc. (fyzika kondenzovaných látok a akustika, elektrotechnológia a materiály, elektronika, fyzikálne inžinierstvo)	doc. Ing. Jozef Novák, DrSc. (Fakulta elektrotechniky a informatiky STU)	Ing. Michal Blaho, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
Ing. František Dubecký, CSc. (fyzika kondenzovaných látok a akustika, elektrotechnológia a materiály, elektronika, fyzikálne inžinierstvo)		Ing. Boris Brunner, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
Ing. Ján Fedor, PhD (fyzikálne inžinierstvo)		RNDr. Katarína Sečianska (RNDr., Prírodovedecká fakulta UPJŠ)

Ing. Karol Fröhlich, DrSc. (elektrotechnológia a materiály, elektronika, fyzikálne inžinierstvo)		Ing. Tomáš Ščepka, PhD. (PhD., Fakulta elektrotechniky a informatiky STU)
doc. Ing. Fedor Gömöry, DrSc. (fyzikálne inžinierstvo)		
RNDr. Dagmar Gregušová, DrSc. (elektronika, fyzikálne inžinierstvo)		
RNDr. Štefan Haščík, PhD. (elektronika)		
Ing. Štefan Chromik, DrSc. (fyzika kondenzovaných látok a akustika, elektrotechnológia 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, teoretická elektrotechnika)		
Ing. Tibor Lalinský, DrSc. (elektronika, metrológia)		
Ing. Peter Lobotka, CSc. (fyzika kondenzovaných látok a akustika, elektrotechnológia a materiály, fyzikálne inžinierstvo)		
doc. RNDr. Martin Moško, DrSc. (fyzika kondenzovaných látok a akustika, chemická fyzika, teoretická elektrotechnika)		
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 Souc, CSc. (elektrotechnológia 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 2016

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. 2016	31	0	7	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	10
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	11
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	10
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	6
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	8
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	3

3.6. Iné dôležité informácie k pedagogickej činnosti

Na PhD štúdium bola prijatá aj MSc. Prerna Chauhan z Indie, po vyriešení problémov s cudzineckou políciou mohla nastúpiť s trojmesačným oneskorením.

Pracovníci ústavu pripravovali študentov formou VPS

- A. Rosová (B. Szundyová, M. Banáry)
- E. Seiler (A. Fos)
- J. Šouc (T. Kujovič)
- M. Vojenčiak (M. Mošat'
- F. Gömöry (E. Mikulášová, R. Ries)
- J. Kováč (M. Buran, V. Džanibekov)
- J. Dzuba (P. Griger)

D. Gregušová, M. Blaho, F. Gucmann, A. Laurenčíková zorganizovali Praktikum z oblasti prípravy a charakterizácie GaN tranzistorov pre študentov FMFI UK 31.4.2016

M. Moško realizoval jarný kurz pre doktorandov: Úvod do kvantovej a štatistickej fyziky pevných látok a elektronických súčiastok (spolu cca 60 hodín, od 18. mája do 1. júna 2016)

Pracovníci ústavu pôsobili v komisiách SKVH a komisiách pre obhajoby DDP za EIÚ SAV:

Zloženie SKVH vo funkčnom období 2016 - 2021

Ing. Fedor Gömöry, DrSc., EIÚ SAV v Bratislave
elektrotechnika, automatizácia a riadiace systémy

Zloženie komisií pre obhajoby DDP na 5-ročné funkčné obdobie od 1. 4. 2016

Elektrotechnika, automatizácia a riadiace systémy

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

Predseda stálej komisie

- Ing. Karol Fröhlich, DrSc., EIÚ SAV v Bratislave

Členovia stálej komisie

- Ing. Pavol Kováč, DrSc., EIÚ SAV v Bratislave
- Ing. Ján Kuzmík, DrSc., EIÚ SAV v Bratislave

Elektrotechnika, automatizácia a riadiace systémy:

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

Predseda komisie "ad hoc"

- doc.Ing. Fedor Gömöry, DrSc., EIÚ SAV v Bratislave

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2016 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

ASDAM 2016, Smolenice, 70 účastníkov, 13.11.-16.11.2016

a) Na konferencii bolo odprezentovaných približne 70 príspevkov formou prednášok, postrov a pozvaných prednášok s pozitívnou spätnou väzbou od zúčastnených.

Prof. Hans Lüth z inštitúcie Forschungszentrum Jülich (FJ) bol ocenený medailou Elektrotechnického ústavu SAV za dlhoročnú spoluprácu medzi FJ a EIÚ SAV.

b) Konferencia sa konala v priestoroch zámku v Smoleniciach, zabezpečenie bolo profesionálne.

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2017 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Typ výboru	Programový	Organizačný	Programový i organizačný
Počet členstiev	3	2	1

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

Ing. Pavol Kováč, DrSc.

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

Ing. Ivo Vávra, CSc.

Československá mikroskopická spoločnosť (funkcia: člen)

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

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Ťapajna Milan	Grantová agentúra Poľskej republiky	1

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

V rámci medzinárodnej spolupráce s Dr. Keckesom z Montanuniversität Leoben, Rakúsko sme spolu s FÚ SAV a firmou Integra TDS, s.r.o. pripravili a zabezpečili experiment s rôzne opracovanými povrchmi germánia a medi pre rtg optiku. Vzorky boli merané v rámci plateného experimentu na BM05 (Dr. Thu Nhi TRAN THI, Junior scientist, X-ray Optics Group) v ESRF Grenoble, poplatok 10000 € hradil rakúsky partner. Namerané údaje v objeme niekoľko gigabajtov boli prevezené do Brna a v ďalšom období ich budeme za pomoci kolegu Dr. P. Mikulíka z MU Brno spracovávať.

V rámci projektu IVF SAFEMOST

Matys, M., **Stoklas, R., Kuzmík, J., Adamowicz, J.B., Yatabe, Z., and Hashizume, T.:** Characterization of capture cross sections of interface states in dielectric/III-nitride heterojunction structures, J. Applied Phys. 119 (2016) 205304.

Ťapajna, M., Válik, L., Gregušová, D., Fröhlich, K., Gucmann, F., Hashizume, T., Kuzmík, J., : Treshold voltage instabilities in AlGaIn/GaN MOS-HEMTs with ALD-grown Al₂O₃ gate dielectrics: relation to distribution of oxide/semiconductor interface state density In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 1-4.

Ťapajna, M., Stoklas, R., Gregušová, D., Válik, L., Gucmann, F., Hušeková, K., Haščík, Š., Fröhlich, K., Toth, L., Pecz, B., Micusik, M., Brunner, F., Hashizume, T., and Kuzmík, J.: On the origin of surface donors in AlGaIn/GaN metal-oxide semiconductor heterostructures with Al₂O₃ gate dielectric—correlation of electrical, structural, and chemical properties. In: Inter. Workshop on Nitride Semicond. (IWN 2016) Orlando 2016.

Projekty MAD

V rámci riešenia projektu MAD s Inštitútom fyziky PAV - Poľsko, Varšava sa uskutočnila návšteva Ing. Štefana Chromika, DrSc., kde sa realizovali spoločné experimenty. Z Inštitútu fyziky navštívili konferenciu SSSI 2016 v Piešťanoch Dr. Iryna Zaytseva a Dr. Piotr Gierlowski, kde prezentovali aj príspevok (Gierlowski et al.: Microwave characterization of YBaCuO superconducting thin film filters) vzniknutý v spolupráci s EIÚ.

V rámci MAD sa uskutočnila pracovná cesta Ing. Š. Chromika, DrSc. na Univerzitu Beersheva, Izrael (prof. Grzegorz Jung), kde prebehli a prebiehajú analýzy vzoriek pripravené na EIÚ, súčasne sa v rámci pobytu pripravovalo podanie spoločnej publikácie. Táto spolupráca iniciovala aj podanie APVV projektu s názvom „Modifikácia YBCO tenkovrstvových štruktúr nízkoenergetickými elektrónmi pre supravodivú elektroniku”.

V rámci riešenia projektu MAD s Institute of Electronics BAS - Bulharsko sa uskutočnila návšteva RNDr. V. Štrbika CSc. IE BAS v Sofii s cieľom spoločných experimentov (zmena kvality mikrovlnného rezonátoru vplyvom injekcie spinov a určovanie odporu rozhrania v dvojvrstve supravodič-feromagnet). Z oboch študovaných problematík sa pripravuje článok v odbornom časopise.

Dosiahnuté výsledky pri riešení projektu:

Sojková, M., Štrbík, V., Nurgaliev, T., Chromik, Š., Dobročka, E., Španková, M., Blagoev, B., and Gál, N.: Fabrication of hybrid thin film structures from HTS and CMR materials. J. Phys.:Conf. Ser. 700 (2016) 012022.

Nurgaliev, T., Blagoev, B., Štrbík, V., Chromik, Š., and Sojková, M.: Investigation of the resistive properties of HTS/manganite bilayers. J. Phys.:Conf. Ser. 700 (2016) 012020.

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 aplikačných 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 detekčných pixelových štruktúr pomocou R/O čipov typu Timepix2 vyvinutých v CERNe

Zhodnotenie: V rámci spolupráce sa uskutočnil na Ústave technickej a experimentálnej fyziky, ČVUT Praha seminár dňa 10.11.2016 s názvom: First test and imaging performance of semi-insulating GaAs pixel detector connected to Timepix chip

http://www.utef.cvut.cz/cms_files/original/seminars/00328/sem_294_2016_11_10_Bohumir_Zatko.pdf

. Bolo pripravených 8 typov pixelových detektorov na báze semiizolačného GaAs, ktoré boli technológiou bumpbondingu 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. Uskutočnilo sa testovanie GaAs pixelového detektora s veľkosťou pixelov 55×55 μm.

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:

Publikácia:

1. Moore, S.A., Plummer, G., Fedor, J., Pearson, J.E., Novosad, V., Karapetrov, G., and Iavarone, M.: Doppler-scanning tunneling microscopy current imaging in superconductor-ferromagnet hybrids, Applied Phys. Lett. 108 (2016) 042601.

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

Publikácia:

1. Kostiuk, D., Bodik, M., Siffalovic, P., Jergel, M., Halahovets, Y., Hodas, M., Pelletta, M., Pelach, M., Hulman, M., Spitalsky, Z., Omastova, M., and Majkova, E.: Reliable determination of the few-layer graphene oxide thickness using Raman spectroscopy, *J. Raman Spectrosc.* 47 (2016) 391-394.

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:

Publikácia:

1. Medvecká, Z., Klein, T., Cambel, V., Šoltýs, J., Karapetrov, G., Levy-Bertrand, F., Michon, B., Marcenat, C., Pribulová, Z., and Samuely, P.: Observation of a transverse Meissner effect in Cu_xTiSe_2 single crystals, *Phys. Rev. B* 93 (2016) 100501(R).

Názov univerzity/vysokej školy a fakulty: University of Applied Sciences Dornbirn, Austria

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko, semináre, realizácia experimentov s následnými vedeckými výstupmi

Začiatok spolupráce: 2012

Zameranie: MEMS, laserová ablácia, mikroelektronika, senzorika

Zhodnotenie: Bolo publikovaných niekoľko príspevkov vo vedeckých periodikách, konferenčných zborníkoch a bol pripravený spoločný návrh projektu v rámci výzvy APVV – Dunajská stratégia.

Návrh nakoniec nebol podaný ale slúži ako základ pre ďalší projektívny návrh a po vhodnom rozšírení pánujeme odoslať v rámci niektorej výzvy EÚ.

Názov univerzity/vysokej školy a fakulty: University Poznań, Poland

Druh spolupráce (spoločné pracovisko alebo iné): výskum, príprava spoločných článkov

Začiatok spolupráce: 2016

Zameranie: Numerical simulations of skyrmion stabilization and dynamics

Zhodnotenie:

Spoločné publikácie:

1. Mruczkiewicz, M., Gruszecki, P., Zelent, M., and Krawczyk, M.: Collective dynamical skyrmion excitations in a magnonic crystal, *Phys. Rev. B* 93 (2016) 174429.

2. Mruczkiewicz, M. and Krawczyk, M.: Influence of the Dzyaloshinskii-Moriya interaction on the FMR spectrum of magnonic crystals and confined structures, *Phys. Rev. B* 94 (2016) 024434.

Názov univerzity/vysokej školy a fakulty: University of the Basque Country San Sebastian, Spain

Druh spolupráce (spoločné pracovisko alebo iné): výskum, príprava spoločných článkov

Začiatok spolupráce: 2016

Zameranie: Analytical calculations and numerical simulations of skyrmion dynamics

Zhodnotenie: sľubne sa rozvíjajúca spolupráca, príprava publikácie

Názov univerzity/vysokej školy a fakulty: University of Leeds, United Kingdom

Druh spolupráce (spoločné pracovisko alebo iné): výskum, príprava spoločných článkov

Začiatok spolupráce: 2016

Zameranie: Simulations and experiment of skyrmion stabilization in multilayer nanodot structure

Zhodnotenie: sľubne sa rozvíjajúca spolupráca

Názov univerzity/vysokej školy a fakulty: Saratov State University Saratov, Russia Federation

Druh spolupráce (spoločné pracovisko alebo iné): výskum, príprava spoločných článkov

Začiatok spolupráce: 2016

Zameranie: BLS measurements of DMI strenght

Zhodnotenie: sľubne sa rozvíjajúca spolupráca, výmena vzoriek

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 Parnership Agreement (Modelling of 40 MVA Superconducting Transformer)

Partner(i): Robinson Research Institute, Victoria Univesity of Wellington (Research Inst., New Zealand); Fabrum Solutions Ltd. (Comp., New Zealand); SuperPower Inc. (Comp., USA)

Začiatok spolupráce (v súlade s podpísaným kontraktom): 2014

Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): trvá

Objem získaných prostriedkov v bežnom roku (€): 13759

Stručný opis výstupu/výsledku: Boli vypočítané striedavé straty v modelovom transformátore s vinutím z páskových vodičov na báze vysokoteplotných supravodičov s parametrami 1 MVA 11 kV/415 V (3 fázy). Výsledok bol použitý v optimalizácii väčšieho transformátora na 40 MVA 110 kV/11 kV.

Názov kontraktu: Merania magnetických vlastností podložiek supravodivých pások

Partner(i): THEVA Dünnschichttechnik GmbH

Začiatok spolupráce (v súlade s podpísaným kontraktom): 2016

Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2016

Objem získaných prostriedkov v bežnom roku (€): 750

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.	Akreditačná komisia	člen Pracovnej skupiny pre elektrotechniku
	SKVH	člen
Ing. Pavol Kováč, DrSc.	SKVH	člen
Ing. Peter Lobotka, CSc.	Programový výbor NMP EÚ	delegát
Ing. Jozef Pitel, CSc.	Programový výbor EURATOM (časť jadrová syntéza) ako doplnok rámcového programu EK Horizont 2020	zástupca SR
	Správna rada Spoločného európskeho podniku pre ITER a rozvoj energie jadrovej syntézy (F4)	zástupca SR
	Medzirezortná koordinačná skupina na koordináciu úloh vyplývajúcich z článkov Zmluvy o založení spoločenstva EURATOM	expert

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

8.3. Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Tabuľka 8b Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Meno pracovníka	Názov orgánu	Funkcia
Ing. Karol Fröhlich, DrSc.	Grantová agentúra MŠ - APVV	Člen Rady pre program Podpora výskumu a vývoja v podnikoch a podpora spolupráce podnikov s výskumnými organizáciami na obdobie rokov 2016 – 2019 (VVP)
doc. Ing. Fedor Gömöry, DrSc.	Grantová agentúra MŠ - APVV	Člen Rady pre technické vedy

8.4. Prehľad aktuálnych spoločenských problémov, ktoré riešilo pracovisko v spolupráci s Kanceláriou prezidenta SR, s 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
RNDr. Vladimír Cambel, DrSc.		PB	Elektronika včera, dnes a zajtra – od diódy po nanosenzory	CVTI - Vedecká cukráreň	24.5.2016
doc. RNDr. Edmund Dobročka, CSc.		RO	Historický kalendár	Rádio Slovensko	8.11.2016
Ing. Jaroslav Dzuba, PhD.	D. Gregušová, M. Blaho, F. Gucmann, R. Stoklas, I. Kunderata, M. Kapolka, L. Frolek, E. Seiler	iné	Európska noc výskumníkov 2016	Stará tržnica, Nám. SNP, Bratislava	30.9.2016
Ing. Peter Eliáš		TL	Polovodičový nanodrôt	Oko 22 (2016), č. 2	1.6.2016
doc. Ing. Fedor Gömöry, DrSc.		PB	Čo sú to supravodiče a ako reagujú na magnetické pole	FMFI UK	9.12.2016
doc. Ing. Fedor Gömöry, DrSc.		TL	Novinky vo vývoji plášt'a magnetickej neviditeľnosti	Oko 22 (2016), č. 1	1.3.2016
doc. Ing. Fedor Gömöry, DrSc.		PB	Supravodivosť	Gymnázium Jura Hronca	31.10.2016
doc. Ing. Fedor Gömöry, DrSc.	J. Šouc, M. Vojenčiak, M. Soloviov, E. Pardo, M. Kapolka	DO	Mágia supravodičov	STV2 Spektrum vedy	1.10.2016
doc. Ing. Fedor Gömöry, DrSc.	Ján Kováč	PB	Supravodiče pre energetiku	FEI STU	27.1.2016
doc. Ing. Fedor Gömöry, DrSc.	M. Skarba, M. Pekarčíková	IN	Objavili zázračné materiály. Konečne ich používame	http://tech.sme.sk/c/20396549/objavili-zazracne-materialy-konecne-ich-pouzivame.html	1.12.2016
Ing. Pavol Kováč, DrSc.		RO	Superconductors and superconductive wind power turbines	Radio Slovakia International	31.5.2016
Ing. Roman Stoklas, PhD.		TL	Po návrate domov	Oko 22 (2016), č. 2	1.6.2016
Ing. Lukáš Válik		TL	Dvere otvorené	Oko 22 (2016), č. 1	1.3.2016

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	4	tlač	4	TV	0
rozhlas	2	internet	1	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	1
iné	1				

9.2. Vedecko-organizačná činnosť

Tabuľka 9c Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
ASDAM 2016	medzinárodná	Smolenice	13.11.-16.11.2016	70

9.3. Účasť na výstavách**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	2

9.5. Členstvo v redakčných radách časopisovIng. 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)

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 of Applied Superconductivity (funkcia: technický redaktor špec. čísla)

Doc. RNDr. Silvester Takács, DrSc.

Acta Physica Universitatis Comenianae (funkcia: člen)

9.6. Činnosť v domácich vedeckých spoločnostiach

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

V rámci Dňa otvorených dverí 2016 ústav navštívilo 311 žiakov so svojimi pedagógmi z: Cirkevná ZŠ Narnia, Cirkevná SOŠE Vazovova, SjF STU, SPŠE Zochova, SPŠE Hálova, SPŠE Adlera, Gymnázium Metodova.

Ústav sa tradične zapojil do akcií v rámci už desiateho ročníka festivalu vedy – Európska Noc výskumníkov, ktorý sa uskutočnil 30. septembra 2016.

Vo vedeckom stánku v Starej tržnici prezentoval z oblasti supravodivosti princíp voľného pohybu levitujúcich supravodivých objektov v magnetickom poli po dráhe tvorenej permanentnými magnetmi, ktorý je využívaný aj na nadnášanie super-rýchlych Maglev vlakov.

Z oblasti elektroniky pracovníci vysvetlili technológiu prípravy rýchlych mikrovlnných tranzistorov pre aplikácie v radarovej a satelitnej technike. V interaktívnej ukážke si mohli záujemci sami vyskúšať proces litografie a pozrieť si svoj výrobok pod mikroskopom.

Z oblasti fotovoltaiiky využili solárny koncentrátor (Fresnelova šošovka) na sústredenie slnečného žiarenia na malú plochu slnečného článku, ktorý potom dokázal vyrobiť dostatok elektrickej energie na rozsvietenie LED diódy (svetloemitujúca dióda). Vysvetlili aj technológiu prípravy tandemových slnečných článkov na báze III-V polovodičov.



10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		8264
z toho	knihy a zviazané periodiká	7305
	audiovizuálne dokumenty	0
	elektronické dokumenty (vrátane digitálnych)	144
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	815
Počet titulov dochádzajúcich periodík		13
z toho zahraničné periodiká		9
Ročný prírastok knižničných jednotiek		12
v tom	kúpou	9
	darom	3
	výmenou	0
	bezodplatným prevodom	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		7305

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu		24
z toho	odborná literatúra pre dospelých	24
	výpožičky periodík	0
	prezenčné výpožičky	0
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		344

10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	102
Návštevníci knižnice spolu (bez návštevníkov podujatí)	5

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 €	3724

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

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. 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 (podpredseda)
- 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)

doc. RNDr. Martin Moško, DrSc.

- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (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 do 30. 5. 2016)

doc. RNDr. Edmund Dobročka, CSc.

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

Dr. rer. nat. Martin Hulman

- Komisia VEGA č. 1 pre matematické vedy, počítačové a informatické vedy a fyzikálne vedy (člen od 1. 6. 2016)

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 31.12.2016 spolu	v tom:			
		zo ŠR od zriaďovateľa	z vlastných zdrojov	z iných zdrojov	z toho: ŠF EÚ
Výdavky spolu	3 462 695,30	1 753 340,00	154 299,35	1 555 055,95	461 858,88
Bežné výdavky	3 367 485,81	1 747 340,00	90 193,68	1 529 952,13	436 755,97
v tom:					
mzdy (610)	1 483 958,51	1 062 301,00	43 935,19	377 722,32	60 730,75
poistné a príspevok do poisťovní (620)	509 206,61	358 668,00	19 723,62	130 814,99	20 978,92
tovary a služby (630)	731 794,60	267 360,00	25 907,45	438 527,15	
z toho: časopisy	8 465,53	4 714,00		3 751,53	
VEGA projekty	132 398,00	132 398,00			
MVTS projekty	46 063,00	46 063,00			
SASPRO	43 044,41	26 068,00		16 976,41	
vedecká výchova	3 640,00	3 640,00			
bežné transfery (640)	642 526,09	59 011,00	627,42	582 887,67	355 046,30
z toho: štipendiá	57 475,00	57 475,00			
transfery partnerom projektov	585 051,09	1 536,00	627,42	582 887,67	355 046,30
Kapitálové výdavky	95 209,49	6 000,00	64 105,67	25 103,82	25 102,91
v tom:					
obstarávanie kapitálových aktív	70 106,58	6 000,00	64 105,67	0,91	
kapitálové transfery	25 102,91			25 102,91	25 102,91
z toho: transfery partnerom projektov	25 102,91			25 102,91	25 102,91

12.2. Príjmy PO SAV

Tabuľka 12b Príjmy PO SAV (v €)

P r í j m y	Skutočnosť k 31.12.2016 spolu	v tom:	
		rozpočtové	z mimorozp. zdrojov
Príjmy spolu	3 522 834,33	1 753 340,00	1 769 494,33
Nedaňové príjmy	1 831 461,61	1 753 340,00	78 121,61
v tom:			
príjmy z prenájmu	0,00		
príjmy z predaja výrobkov a služieb	74 797,76		74 797,76
iné	3 323,85		3 323,85
Granty a transfery (mimo zdroja 111)	1 691 372,72		1 691 372,72
v tom:			
tuzemské	1 007 102,00		1 007 102,00
z toho: APVV	1 007 102,00		1 007 102,00
iné	0,00		
zahrančné	684 270,24		684 270,72
z toho: projekty rámcového programu EÚ a ŠF	514 358,24		514 358,24
iné	169 912,48		169 912,48

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

Pobyty zahraničných pracovníkov na EIÚ

Študijné a postdoktorandské pobyty hradené vysielajúcimi pracoviskami:

Meno	Krajina	Inštitúcia	Nástup	Ukončenie
R. Terzioglu	Turecko	Sakarya University	10/2015	8/2016
S. Jie	Čína	Shanghai Jiao Tang University	12/2015	10/2016
Y. Nagasaki	USA	NASA - Ames Research Center Moffat Field, CA	05/2016	05/2017

Študijné a postdoktorandské pobyty hradené štipendiom SAIA

Meno	Krajina	Inštitúcia	Trvanie
M. Zelent	Poľsko	Univ. Poznan	1 mesiac
K. Kodama	Japonsko	Univ. Fukui	8 mesiacov
J. Brylavskiy	Ukrajina	Univ. Odesa	6 mesiacov

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2016

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

15.1.2. Iné domáce ocenenia

Kuzmík Ján

Cena Literárneho fondu za 3-ročný ohlas na vedeckú prácu

Oceňovateľ: LITA

Opis: 1. miesto

15.2. Medzinárodné ocenenia

Pardo Enric, Gömöry Fedor

Van Duzer price

Oceňovateľ: IEEE

Opis: Van Duzer price from IEEE for the best article in IEEE Transactions on Applied Superconductivity for the year 2014. Grilli, F., Pardo, E., Stenvall, A., Nguyen, D., Yuan, W., Gömöry, F., : Computation of losses in HTS under the action of varying magnetic fields and currents. IEEE Trans. Applied Supercond. 24 (2014) 8200433.

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 31.12.2016****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	0.50
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.	60	0.67
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.	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	0.50
8.	RNDr. Michal Kučera, PhD	100	1.00
9.	Ing. Róbert Kúdela, CSc.	100	1.00
10.	Ing. Peter Lobotka, CSc.	60	0.60
11.	Mgr. Enric Pardo, PhD.	100	1.00
12.	Ing. Jozef Pitel, CSc.	100	0.88
13.	Ing. Alica Rosová, CSc.	100	1.00
14.	Mgr. Eugen Seiler, PhD	100	1.00

15.	Mgr. Mykola Soloviov, PhD.	100	1.00
16.	Ing. Roman Stoklas, PhD.	100	1.00
17.	Ing. Ján Šoltýs, PhD	100	1.00
18.	Ing. Ján Šouc, CSc.	100	1.00
19.	RNDr. Marianna Španková, PhD	80	0.80
20.	RNDr. Vladimír Štrbík, CSc.	100	1.00
21.	Ing. Milan Ťapajna, PhD.	100	1.00
22.	Ing. Jaroslav Tóvik, PhD.	50	0.50
23.	Ing. Gabriel Vanko, PhD.	100	1.00
24.	Ing. Michal Vojenčiak, PhD.	100	1.00
25.	Mgr. Bohumír Zaťko, PhD	100	1.00
Vedeckí pracovníci			
1.	Mgr. Oleg Babchenko, PhD.	100	1.00
2.	Mgr. Petra Barančeková Husaníková, PhD.	50	0.38
3.	Ing. Michal Blaho, PhD.	100	1.00
4.	Ing. Boris Brunner, PhD.	100	0.45
5.	Mgr. Jozef Drga, PhD.	20	0.60
6.	Ing. Jaroslav Dzuba, PhD.	100	1.00
7.	Ing. Jozef Fabian, CSc	100	1.00
8.	Mgr. Juraj Feilhauer, PhD.	100	0.00
9.	Ing. Filip Gucmann, PhD.	100	1.00
10.	Ing. Ladislav Hrubčín, CSc.	10	0.00
11.	Mgr. Ján Kováč, PhD.	100	1.00
12.	Ing. Miloslav Kulich, PhD.	100	1.00
13.	Mgr. Agáta Laurenčíková, PhD.	100	1.00
14.	RNDr. Antónia Mošková, CSc.	80	0.80
15.	Dr. Michal Mruczkiewicz	100	1.00
16.	Ing. Marián Precner, PhD.	100	0.17
17.	Ing. Ivan Rýger, PhD.	100	0.00
18.	Mgr. Michaela Sojková, PhD.	100	1.00
19.	Ing. Tomáš Ščepka, PhD.	100	1.00
20.	Ing. Zdenko Zápražný, PhD.	100	1.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Jana Brndiarová	40	0.23
2.	Ing. Peter Eliáš	100	1.00

3.	Ing. Lubomír Frolek	100	1.00
4.	Ing. Norbert Gál	20	0.12
5.	Mgr. Štefan Gaži	40	0.40
6.	Ing. Stanislav Hasenöhrl	100	1.00
7.	Ing. Imrich Hušek	100	1.00
8.	RNDr. Kristína Hušeková	100	1.00
9.	Mgr. Peter Hutár	20	0.07
10.	MSc. Prerna Chauhan	20	0.02
11.	Ing. Milan Kapolka	40	0.23
12.	Ing. Eva Kováčová	100	1.00
13.	Ing. Ivan Kundra	20	0.07
14.	Ing. Tibor Melišek	100	1.00
15.	Ing. Pavol Mozola	100	1.00
16.	RNDr. Katarína Sečianska	40	0.23
17.	Mgr. Mária Sekáčová	100	1.00
18.	RNDr. Vasilij Šmatko	40	0.55
19.	Ing. Marcel Talacko	20	0.07
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Mgr. Miroslav Adámek	100	1.00
2.	PhDr. Anna Gömöryová	100	1.00
3.	Ing. Anna Kršjaková	80	0.80
4.	Mgr. Vojtech Ogrodnik	40	0.40
5.	Ing. Dominika Poláková	100	1.00
6.	Mgr. Martina Zdechovanová	80	0.00
7.	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.	Vladimír Džanibekov	50	0.13
5.	Dagmar Erbenová	100	1.00
6.	Michal Gerboc	100	1.00
7.	Iveta Grófova	100	1.00
8.	Martin Grujbár	100	1.00
9.	Lubomír Kopera	100	1.00

10.	Magdaléna Krajčírová	100	1.00
11.	Peter Martiš	100	1.00
12.	Pavol Mužik	60	0.60
13.	Edita Považanová	100	1.00
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	80	0.63
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
Vedúci vedeckí pracovníci DrSc.			
1.	Doc. RNDr. Silvester Takács, DrSc.	31.12.2016	0.20
Samostatní vedeckí pracovníci			
1.	RNDr. Štefan Beňačka, CSc.	1.2.2016	0.03
2.	Ing. Ivo Vávra, CSc.	30.11.2016	0.55
Vedeckí pracovníci			
1.	Mgr. Jozef Drga, PhD.	31.12.2016	0.60
2.	Ing. Pavol Kunzo, PhD.	30.4.2016	0.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Peter Gálik	31.7.2016	0.05
2.	Ing. Peter Jančovič	31.8.2016	0.11

3.	Ing. Lukáš Válik	2.9.2016	0.05
4.	Ing. Simona Zajkoska	15.2.2016	0.00
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Alica Miklášová	31.3.2016	0.13
Odborní pracovníci ÚSV			
1.	Pavol Rác	31.7.2016	0.35

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostředkov SAV			
1.	Mgr. Jana Brndiarová	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
2.	Ing. Norbert Gál	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
3.	Mgr. Peter Hutár	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
4.	MSc. Prerna Chauhan	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
5.	Ing. Milan Kapolka	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
6.	Ing. Ivan Kandrata	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
7.	Mgr. Katarína Sečianska	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
8.	Ing. Marcel Talacko	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
Interní doktorandi hrazení z iných zdrojov			
<i>organizácia nemá interných doktorandov hrazených z iných zdrojov</i>			
Externí doktorandi			
<i>organizácia nemá externých doktorandov</i>			

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi
1.	RNDr. Štefan Beňačka, CSc.

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medziakademická dohoda (MAD)

1.) Štúdium rastu a elektrických vlastností hybridných štruktúr diamantu a tranzistorov AlGaN/GaN HEMT

Zodpovedný riešiteľ: Gabriel Vanko
Trvanie projektu: 1.1.2016 / 31.3.2017
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Česko: 1

Programy: Medzivládna dohoda

2.) Príprava a vlastnosti supravodivých, magnetických, a dielektrických vrstiev pre kryoelektronické štruktúry

Zodpovedný riešiteľ: Štefan Chromik
Trvanie projektu: 1.1.2016 / 31.12.2018
Evidenčné číslo projektu: 24
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Poľsko: 1

3.) Perovskitovské heteroštruktúry nanometrových hrúbok pre senzory a spintroniku *(Perovskite heterostructures of nanometric thickness for sensors and spintronics)*

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

4.) 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: 3500 €

5.) Smerom k elektronike na báze oxidov (*Towards Oxide-Based Electronics*)

Zodpovedný riešiteľ: Štefan Chromik
Trvanie projektu: 1.2.2016 / 30.4.2018
Evidenčné číslo projektu: MP1308
Organizácia je koordinátorom projektu: nie
Koordinátor: CNRCNR-SPIN
Počet spoluriešiteľských inštitúcií: 28 - Rakúsko: 1, Belgicko: 1, Bulharsko: 1, Česko: 1, Nemecko: 1, Dánsko: 1, Španielsko: 1, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 1, Chorvátsko: 1, Švajčiarsko: 1, Írsko: 1, Izrael: 1, Taliansko: 1, Litva: 1, Luxembursko: 1, Lotyšsko: 1, Holandsko: 1, Nórsko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1, Srbsko: 1, Slovinsko: 1, Švédsko: 1, Turecko: 1
Čerpané financie: Podpora medzinárodnej spolupráce z národných zdrojov: 3208 €

6.) 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: 1750 €

Dosiahnuté výsledky:

Zápražný, Z., Korytár, D., Jergel, M., Šiffalovič, P., Halahovets, Y., Keckes, J., Maľko, I., Ferrari, C., Vagovič, P., and Mikloška, M.: Nano-machining for advanced x-ray crystal optics. AIP Conf. Proc. 1764 (2016) 020005.

Hrivňak, S., Uličný, J., Mikeš, L., Cecilia, A., Hamann, E., Baumbach, T., Švéda, L., Zápražný, Z., Korytár, D., Gimenez, E., Wagner, U., Rau, C., Greven, H., and Vagovič, P.: Single-distance phase retrieval algorithm for Bragg Magnifier microscope. Optics Express 24 (2016) 27753-27762.

7.) 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: 333 €

8.) 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: 3500 €

Dosiahnuté výsledky:

Pokračovali sme najmä vo výskume uhlíkových nanočastíc. Zmerali sme excitačno-emisné spektrá uhlíkových nanokoloidov. Predbežné výsledky naznačujú kvantový výt'azok v ráde percent, čo je veľmi sľubné. Pomocou HRTEM sme zistili, že chemická mapa uhlíka v nanometrovej škále sa

prekrýva s chemickou mapou fluóru, čím sme podali dôkaz, že záporné ióny BF₄ z iónovej kvapaliny tvoria naozaj surfaktant okolo každej jednotlivkej nanočastice. Výsledky budú publikované v 2017. Okrem toho sme vymysleli optický experiment, ktorý by mal pomôcť vybrať jednu z 3 hypotéz o tom, ako vlastne nanočastice v IL vznikajú.

9.) 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

10.) 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: 3500 €

Dosiahnuté výsledky:

Zápražný, Z., Korytár, D., Jergel, M., Šiffalovič, P., Halahovets, Y., Keckes, J., Maľko, I., Ferrari, C., Vagovič, P., and Mikloška, M.: Nano-machining for advanced x-ray crystal optics. AIP Conf. Proc. 1764 (2016) 020005.

Hrivňak, S., Uličný, J., Mikeš, L., Cecilia, A., Hamann, E., Baumbach, T., Švéda, L., Zápražný, Z., Korytár, D., Gimenez, E., Wagner, U., Rau, C., Greven, H., and Vagovič, P.: Single-distance phase retrieval algorithm for Bragg Magnifier microscope. Optics Express 24 (2016) 27753-27762.

Programy: 7RP

11.) Vývoj supravodivých pásov 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: EÚ: 47475 €
Podpora medzinárodnej spolupráce z národných zdrojov: 4200 €

Dosiahnuté výsledky:

Pardo, E., Kapolka, M., Kováč, J., Šouc, J., Grilli, F., and Piqué, A.: Three-dimensional modeling and measurement of coupling AC loss in soldered tapes and striated coated conductors, (Invited paper) IEEE Trans. Applied Supercond. 26 (2016) 4700607.

Pardo, E.: Modeling of screening currents in coated conductor magnets containing up to 40000 turns. Supercond. Sci Technol. 29 (2016) 085004.

Hopkins, S., Mitchell-Williams, T., Vanden Brusse, D., Calleja, A., Vlad, V., Vilardell, M., Granados, X., Puig, T., Obradors, X., Usoskin, A., Soloviov, M., Vojenčiak, M., Gömöry, F., Van Driessche, I., Bäcker, M., and Glowacki, B.: Low AC loss inkjet-printed multifilamentary YBCO coated conductors. IEEE Trans. Applied Supercond. 26 (2016) 6602905.

12.) 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: EÚ: 5203 €
APVV: 5507 €
Podpora medzinárodnej spolupráce z národných zdrojov: 3572 €

Dosiahnuté výsledky:

Kováč, P., Hušek, I., Kováč, J., Melišek, T., Kulich, M., and Kopera, L.: Filamentary MgB₂ wires with low magnetization AC losses, IEEE Trans. Applied Supercond. 26 (2016) 6200705.

Pitel, J., Melišek, T., Tropeano, M., Nardelli, D., and Tumino, A.: Mathematical model to determine the dimensions of superconducting cylindrical coils with a given central field - the case study for MgB₂ conductors with isotropic I_c(B) characteristic, *Physica C* 527 (2016) 104-113.

Kováč, P., Hušek, I., Melišek, T., Kulich, M., and Kopera, L.: Bending strain tolerance of a MgB₂ superconducting wires, *Supercond. Sci Technol.* 29 (2016) 045002.

Programy: International Visegrad Found (IVF)

13.) 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: Podpora medzinárodnej spolupráce z národných zdrojov: 25000 €

Dosiahnuté výsledky:

Matys, M., Stoklas, R., Kuzmík, J., Adamowicz, J.B., Yatabe, Z., and Hashizume, T.: Characterization of capture cross sections of interface states in dielectric/III-nitride heterojunction structures, *J. Applied Phys.* 119 (2016) 205304.

Ťapajna, M., Válik, L., Gregušová, D., Fröhlich, K., Gucmann, F., Hashizume, T., and Kuzmík, J.: Threshold voltage instabilities in AlGaIn/GaN MOS-HEMTs with ALD-grown Al₂O₃ gate dielectrics: relation to distribution of oxide/semiconductor interface state density In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 1-4.

Ťapajna, M., Stoklas, R., Gregušová, D., Válik, L., Gucmann, F., Hušeková, K., Haščík, Š., Fröhlich, K., Toth, L., Pecz, B., Micusik, M., Brunner, F., Hashizume, T., and Kuzmík, J.: On the origin of surface donors in AlGaIn/GaN metal-oxide semiconductor heterostructures with Al₂O₃ gate dielectric—correlation of electrical, structural, and chemical properties. In: Inter. Workshop on Nitride Semicond. (IWN 2016) Orlando 2016.

Matys, M., Adamowicz, J., Domanowska, A., Michalewicz, A., Stoklas, R., Akazawa, M., Yatabe, Z., and Hashizume, T. : On the origin of interface states at oxide/III-nitride heterojunction interfaces. *J. Applied Phys.* 119 (2016) 225305.

Gucmann, F., Gregušová, D., Válik, L., Ťapajna, M., Haščík, Š., Hušeková, K., Fröhlich, K., Pohorelec, O., and Kuzmík, J.: DC and pulsed IV characterisation of AlGaIn/GaN MOS-HEMT with Al₂O₃ gate dielectric prepared by various techniques In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 9-12

Ťapajna, M., Hušeková, K., Pohorelec, O., Válik, L., Haščík, Š., Gucmann, F., Fröhlich, K., Gregušová, D., and Kuzmík, J.: Effect of HCl pretreatment on the oxide/semiconductor interface

state density in AlGaIn/GaN MOS-HEMT structures with MOCVD grown Al₂O₃ gate dielectric In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 207-211

D. Gregušová, M. Blaho, Š. Haščík, A. Seifertová, A. Laurenčíková, J. Dérer, F. Brunner, J. Würfl, and J. Kuzmík: Polarization-engineered n+GaIn/InGaIn/AlGaIn/GaN normally-off MOS HEMTs. In 40th Workshop on Compound Semiconductors Devices and Integrated Circuits in Europe, Aveiro, Portugal, 6-10 June 2016.

M. Matys, S. Kaneki, B. Adamowicz, J. Kuzmík and T. Hashizume: Characterization of interface states from frequency dispersion in capacitance-voltage curves of Al₂O₃/AlGaIn/GaN heterostructures. In: Inter. Workshop on Nitride Semicond. (IWN 2016) Orlando 2016.

Programy: Bilaterálne - iné

14.) Hard X-ray focussing and X-ray detectors for applications in medicine and plasma diagnostics (*Hard X-ray focussing and X-ray detectors for applications in medicine and plasma diagnostics*)

Zodpovedný riešiteľ: František Dubecký
Trvanie projektu: 1.1.2016 / 31.12.2017
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Taliansko: 1

Programy: Horizont 2020

15.) 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 Vojenčíak
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: EÚ: 2610 €
APVV: 192848 €
Podpora medzinárodnej spolupráce z národných zdrojov: 3500 €

Dosiahnuté výsledky:

Zani, L., Bayer, C., Biancolini, M., Bonifetto, R., Bruzzone, P., Brutti, C., Ciazynski, D., Coleman, M., Duran, I., Eisterer, M., Fietz, W., Gade, P., Gaio, E., Giorgetti, F., Goldacker, W., Gömöry, F., Granados, X., Heller, R., Hertout, P., Hoa, C., Kario, A., Lacroix, B., Lewandowska, M., Maistrello, A., Muzzi, L., Nijhuis, A., Nunio, F., Panin, A., Petrisor, T., Poncet, J., Prokopec, R., Sanmarti Cardona, M., Savoldi, R., Schlachter, S., Sedlak, K., Stepanov, B., Tiseanu, I., Torres, A., Turtú, S., Vallcorba, R., Vojenčiak, M., Weiss, K., Wesche, R., Yagotintsev, K., and Zanino, R.: Overview of progress on the EU DEMO reactor magnet system design. *IEEE Trans. Applied Supercond.* 26 (2016) 4204505.

Projekty národných agentúr

Programy: VEGA

1.) 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: 17098 €

Dosiahnuté výsledky:

Publikácie:

Hudec, B., Hsu, C., Wang, I., Lai, W., Chang, C., Wang, T., Fröhlich, K., Ho, C., Lin, C., and Hou, T.: 3D resistive RAM cell design for high-density storage class memory - a review. *Sci China Infor. Sci* 59 (2016) 061403.

Hudec, B., Wang, I., Lai, W., Chang, C., Jančovič, P., Fröhlich, K., Mičušík, M., Omastová, M., and Hou, T.: Interface engineering HfO₂-based 3D vertical ReRAM. *J. Phys. D* 49 (2016) 215102.

Príspevky na konferenciách

Ťapajna, M., Hušeková, K., Pohorelec, O., Válik, L., Haščík, Š., Gucmann, F., Fröhlich, K., Gregušová, D., and Kuzmík, J.: Effect of HCl pretreatment on the oxide/semiconductor interface state density in AlGaN/GaN MOS-HEMT structures with MOCVD grown Al₂O₃ gate dielectric. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 207-211.

Mikolášek, M., Racko, J., Řeháček, V., Harmatha, L., Ťapajna, M., and Fröhlich, K.: Silicon based metal-insulator-semiconductor structures for photoelectrochemical solar fuel generation. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 45-48.

Stoklas, R., Gregušová, D., Fröhlich, K., and Kuzmík, J.: Temperature-dependent of sub-threshold slope of AlGaN/GaN MOSHFETs with HfO₂ gate oxide prepared by ALD. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 189-192.

Ťapajna, M., Válik, L., Gregušová, D., Fröhlich, K., Gucmann, F., Hashizume, T., and Kuzmík, J.: Threshold voltage instabilities in AlGaIn/GaN MOS-HEMTs with ALD-grown Al₂O₃ gate dielectrics: relation to distribution of oxide/semiconductor interface state density. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 1-4.

2.) Technológia hradiel s izolujúcou vrstvou pre kvalitné, vyskúšané 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: 10259 €

Dosiahnuté výsledky:

Mikulics, M., Arango, Y., Winden, A., Adam, R., Hardtdegen, A., Grützmacher, D., Plinski, E., Gregušová, D., Novák, J., Kordoš, P., Moonshiram, A., Marso, M., Sofer, Z., Lüth, H., and Hardtdegen, H.: Direct electro-optical pumping for hybrid CdSe nanocrystal/III-nitride based nano-light-emitting diodes. *Applied Phys. Lett.* 108 (2016) 061107.

Stoklas, R., Gregušová, D., Fröhlich, K., and Kuzmík, J.: Temperature-dependent of sub-threshold slope of AlGaIn/GaN MOSHFETs with HfO₂ gate oxide prepared by ALD. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 189-192.

Florovič, M., Škriniarová, J., Gregušová, D., Kováč, J., and Kordoš, P.: Trap analysis in GaN-based heterostructures using current transients measurements. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 185-188.

3.) 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: 5895 €

Dosiahnuté výsledky:

Kostiuk, D., Bodik, M., Šiffalovič, P., Jergel, M., Halahovets, Y., Hodas, M., Pelletta, M., Pelach, M., Hulman, M., Spitalsky, Z., Omastová, M., and Majková, E.: Reliable determination of the few-layer graphene oxide thickness using Raman spectroscopy. *J. Raman Spectrosc.* 47 (2016) 391-394.

4.) Výskum progresívnych materiálov a štruktúr pre foto-elektrochemické aplikácie
(*Investigation of advanced materials and structures for photoelectrochemical applications*)

Zodpovedný riešiteľ: Jozef Huran
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: 1/0651/16
Organizácia je koordinátorom projektu: nie
Koordinátor: FEI STU
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 2699 €

Dosiahnuté výsledky:

Huran, J., Perný, M., Hrubčín, L., Skuratov, V., Šály, V., Mikolášek, M., Kobzev, A., and Arbet, J.: Xe ion irradiation of heterojunction solar cell structures with ITO antireflection film In: Proc. ADEPT. 4st Inter. Conf. on Advan. in Electronic and Photonic Technol. Eds. J. Kováč, jr. et al. Žilina: Univ. Žilina 2016. ISBN 978-80-554-1226-9. P. 151-154.

Huran, J., Boháček, P., Sasinková, V., Kleinová, A., Mikolášek, M., Kobzev, A., Hrubčín, L., Arbet, J., and Sekáčová, M.: Silicon carbide thin films deposited by PECVD technology for applications in photoelectrochemical water splitting devices In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 215-219.

5.) 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: 10259 €

Dosiahnuté výsledky:

Sojková, M., Štrbik, V., Nurgaliev, T., Chromik, Š., Dobročka, E., Španková, M., Blagoev, B., and Gál, N.: Fabrication of hybrid thin film structures from HTS and CMR materials. J. Phys.:Conf. Ser. 700 (2016) 012022.

Španková, M., Štrbik, V., Dobročka, E., Chromik, Š., Sojková, M., Zheng, D., and Li, J.: Characterization of epitaxial LSMO thin films with high Curie temperature prepared on different substrates. Vacuum 126 (2016) 24-28.

Štrbik, V., Beňačka, Š., Gaži, Š., Španková, M., Šmatko, V., Chromik, Š., Gál, N., Knoška, J., Sojková, M., and Pisarčík, M.: Transport properties of $\text{YBa}_2\text{Cu}_3\text{O}/\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ nanostripes and $\text{YBa}_2\text{Cu}_3\text{O}_x/\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3/\text{YBa}_2\text{Cu}_3\text{O}_x$ nanojunctions. J. Phys.:Conf. Ser. 700 (2016) 012021.

Nurgaliev, T., Blagoev, B., Štrbík, V., Chromik, Š., and Sojková, M.: Investigation of the resistive properties of HTS/manganite bilayers. J. Phys.:Conf. Ser. 700 (2016) 012020.

6.) 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: 7043 €

Dosiahnuté výsledky:

Drga, J., Korytár, D., Zápražný, Z., Jergel, M., and Halahovets, Y.: Influence of tool rake angle used for nanomachining of germanium. In Proc. Transfer 2016. 17th Inter. Sci Conf. TU A. Dubčeka v Trenčíne 2016. ISBN 978-80-8075-756-4.

Végső, K., Jergel, M., Šiffalovič, P., Majková, E., Korytár, D., Zápražný, Z., Mikulík, P. and Vagovič, P.: Towards high-flux X-ray beam compressing channel-cut monochromators. J. Applied Crystall. 49 (2016) 1885-1892.

Hrivňak, S., Uličný, J., Mikeš, L., Cecilia, A., Hamann, E., Baumbach, T., Švéda, L., Zápražný, Z., Korytár, D., Gimenez, E., Wagner, U., Rau, C., Greven, H., and Vagovič, P.: Single-distance phase retrieval algorithm for Bragg Magnifier microscope. Optics Express 24 (2016) 27753-27762.

Zápražný, Z., Korytár, D., Jergel, M., Šiffalovič, P., Halahovets, Y., Keckes, J., Matko, I., Ferrari, C., Vagovič, P., and Mikloška, M.: Nano-machining for advanced x-ray crystal optics, AIP Conf. Proc. 1764 (2016) 020005.

7.) Kompozitný supravodič MgB₂ na báze difúznej metódy (*Composite superconductor MgB₂ made by internal Mg diffusion*)

Zodpovedný riešiteľ: Miloslav Kulich
Trvanie projektu: 1.1.2016 / 31.12.2018
Evidenčné číslo projektu: 2/0129/16
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 14656 €

Dosiahnuté výsledky:

Kulich, M., Kováč, P., Hain, M., Rosová, A., and Dobročka, E.: High density and connectivity of a MgB₂ filament made using the internal magnesium diffusion technique, *Supercond. Sci Technol.* 29 (2016) 035004.

Kováč, P., Hušek, I., Melišek, T., Kopera, L., and Kulich, M.: Fast creation of dense MgB₂ phase in wires made by IMD process, *Supercond. Sci Technol.* 26 (2016) 10LT01.

8.) 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: 4834 €

Dosiahnuté výsledky:

Do CC časopisu *Physica Status Solidi b* bol odoslaný rukopis Note on the Coulomb blockade of a weak tunnel junction with Nyquist noise: Conductance formula for a broad temperature range, autori A. Mošková, M. Moško

9.) 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: 12539 €

Dosiahnuté výsledky:

Mikulics, M., Arango, Y., Winden, A., Adam, R., Hardtdegen, A., Grützmacher, D., Plinski, E., Gregušová, D., Novák, J., Kordoš, P., Moonshiram, A., Marso, M., Sofer, Z., Lüth, H., and Hardtdegen, H.: Direct electro-optical pumping for hybrid CdSe nanocrystal/III-nitride based nano-light-emitting diodes. *Applied Phys. Lett.* 108 (2016) 061107.

10.) Pokročilé AlGaIn/GaN HEMT a MISHEMT tranzistory pre vysokoteplotnú elektroniku a senzoriku (*Advanced AlGaIn/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: 8435 €

Dosiahnuté výsledky:

Analyzovala sa frekvenčná závislosť kapacity MISHFET štruktúr a vplyv stavov rozhrania medzi dielektrikom a polovodičom na vznik anomálneho kapacitného píku a rastu kapacity s klesajúcou frekvenciou.

Výsledky boli prezentované v prácach:

Osvald, J.: Electrical properties of back-to-back metal/insulator/semiconductor diodes based on AlGaIn/GaN heterostructure. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 231-234.

Osvald, J.: Properties of AlGaIn/GaN varactor with two dimensional electron gas. In: Proc. ADEPT. 4th Inter. Conf. on Advan. in Electronic and Photonic Technol. Eds. J. Kováč, jr. et al. Žilina: Univ. Žilina 2016. ISBN 978-80-554-1226-9. P. 245-248.

11.) 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: 7979 €

Dosiahnuté výsledky:

Sečianska, K. , Šoltýs, J. and Cambel, V.: Study of magnetic micro-ellipses by cantilever sensor, Acta Physica Polonica A, prijaté na publikovanie

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

Zodpovedný riešiteľ: Jaroslav Tóvik
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: 1415 €

13.) 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: VEGA: 2409 €

Dosiahnuté výsledky:

Dzuba, J., Vanko, G., Babchenko, O., Lalinský, T., Horvát, F., Szarvas, M., Kováč, T., and Hučko, B.: Strain induced response of AlGaIn/GaN high electron mobility transistor located on cantilever and membrane. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 227-230.

14.) 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: 5906 €

Dosiahnuté výsledky:

Soták, T., Hronec, M., Vávra, I., and Dobročka, E.: Sputtering processed tungsten catalysts for aqueous phase reforming of cellulose. Inter. J. Hydrogen Energy 41 (2016) 21936-21944.

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

Zodpovedný riešiteľ: Michal Vojenčíak
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: 15578 €

Dosiahnuté výsledky:

Takács, S.: Time constant of round superconducting structures determined from the time development of the induced magnetic field, Cryogenics 80 (2016) 90-96.

Pardo, E., Kapolka, M., Kováč, J., Šouc, J., Grilli, F., and Pique, A.: Three-dimensional modeling and measurement of coupling AC loss in soldered tapes and striated coated conductors, (Invited paper) IEEE Trans. Applied Supercond. 26 (2016) 4700607.

16.) Detekcia ionizujúcich častíc s využitím senzorov na báze semiizolačného GaAs a 4H-SiC pre fyziku vysokých energií (*Detection of ionizing particles using sensors base on semi-insulating GaAs and 4H-SiC for high energy physics*)

Zodpovedný riešiteľ: Bohumír Zařko
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: 2/0152/16
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 5394 €

Dosiahnuté výsledky:

Šagátová, A., Zařko, B., Sedláčková, K., Boháček, P., Fülöp, M., Kubanda, M., and Nečas, V.: Spectrometric properties of semi-insulating GaAs detectors irradiated by 5 MeV electrons at different dose rates. J. Instrument. 11 (2016) C12078.

Zařko, B., Šagátová, A., Sedláčková, K., Nečas, V., Dubecký, F., Solar, M., and Granja, C.: Detection of fast neutrons from D-T nuclear reaction using 4H-SiC radiation detector. Inter. J. Modern Phys.: Conf. Ser. 44 (2016) 1660235.

Szundiová, B., Zařko, B., Boháček, P., Sekáčová, M., and Nečas, V.: Electrical and detection properties of bulk semi-insulating GaAs detectors. In: APCOM 2016. Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2016. ISBN 978-80-227-4572-7. P. 275-278.

Šagátová, A., Zařko, B., Sedláčková, K., Nečas, V., and Darářtová, Ľ.: Gallium arsenide detectors with 6LiF layer for thermal neutron detection. In: APCOM 2016. Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2016. ISBN 978-80-227-4572-7. P. 45-49.

Dubecký, F., Vanko, G., Kindl, D., Hubík, P., Gombia, E., Boháček, P., Sekáčová, M., and Zařko, B.: Investigation of metal contacts on semi-insulating GaAs: physics, technology and applications In: ASDAM 2016. Eds. Š. Hařčík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 219-222.

Šagátová, A., Zařko, B., Sedláčková, K., Nečas, V., and Boháček, P.: Optimization of SI GaAs detector for thermal neutron detection In: ASDAM 2016. Eds. Š. Hařčík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 23-26.

Zaľko, B., Hrubčín, L., Šagátová, A., Boháček, P., Dubecký, F., Sedláčková, K., Sekáčová, M., Arbet, J., Nečas, V., and Skuratov, V.: Particle detectors based on 4H-SiC epitaxial layer and their properties In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 141-144.

Sedláčková, K., Zaľko, B., Šagátová, A., and Nečas, V.: Simulation of the thermal neutron semiconductor detector response using MCNPX code. In: APCOM 2016. Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2016. ISBN 978-80-227-4572-7. P. 126-130.

Zaľko, B., Šagátová, A., Boháček, P., Sekáčová, M., Arbet, J., and Nečas, V.: The thermal neutron detection using 4H-SiC detectors with 6LiF conversion layer. In: APCOM 2016. Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2016. ISBN 978-80-227-4572-7. P. 37-41.

Dubecký, F., Hubík, P., Kindl, D., Gombia, E., Boháček, P., Sekáčová, M., and Nečas, V.: Unexpected current lowering of Mg contact on SI-GaAs. In: APCOM 2016. Eds. J. Vajda and I. Jamnický. Bratislava: FEI STU 2016. ISBN 978-80-227-4572-7. P. 188-192.

Programy: APVV

17.) 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: 69220 €

18.) 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: 40000 €

19.) Tvarovanie magnetického poľa pomocou kombinácie supravodivých a feromagnetických materiálov (*Magnetic field shaping by a combination of superconducting and ferromagnetic materials*)

Zodpovedný riešiteľ: Fedor Gömöry

Trvanie projektu: 1.10.2013 / 31.12.2016
Evidenčné číslo projektu: 0623-12
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 32719 €

Dosiahnuté výsledky:

Soloviov, M., Šouc, J., Kováč, J., Gömöry, F., Mikulášová, E., Ušáková, M., and Ušák, E.: Design of magnetic cloak for experiments in AC regime, (Invited paper) IEEE Trans. Applied Supercond. 26 (2016) 0500206.

Šouc, J., Soloviov, M., and Gömöry, F.: Hiding objects in AC magnetic fields of power grid frequency by two-shell ferromagnetic/superconducting cloak, Applied Phys. Lett. 109 (2016) 033507.

20.) 2D materiály iné ako grafén: monovrstvy, heteroštruktúry a hybridné vrstvy (2D materials beyond graphene: monolayers, heterostructures and hybrids)

Zodpovedný riešiteľ: Martin Hulman
Trvanie projektu: 1.7.2016 / 31.12.2019
Evidenčné číslo projektu: 15-0693
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 32391 €

Dosiahnuté výsledky:

Varga, M., Izak, T., Vretenár, V., Kozak, H., Holovsky, J., Artemenko, A., Hulman, M., Skákalová, V., Lee, D.S., and Kromka, A.: Diamond/carbon nanotube composites: Raman, FTIR, and XPS spectroscopic studies, Carbon 111 (2017) 54-61.

Chromik, Š., Sojková, M., Vretenár, V., Rosová, A., Dobročka, E., and Hulman, M.: Influence of GaN/AlGaN/GaN (0001) and Si (100) substrates on structural properties of extremely thin MoS₂ films grown by pulsed laser deposition, Applied Surface Sci 395 (2017) 232-236.

21.) 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: 61255 €

Dosiahnuté výsledky:

Balalykin, N., Huran, J., Nozdrin, M., Feshchenko, A., Kobzev, A., and Arbet, J.: Transmission photocathodes based on stainless steel mesh and quartz glass coated with n doped DLC thin films prepared by reactive magnetron sputtering. J. Phys.:Conf. Ser. 700 (2016) 012050.

Huran, J., Perný, M., Hrubčín, L., Skuratov, V., Šály, V., Mikolášek, M., Kobzev, A., and Arbet, J.: Xe ion irradiation of heterojunction solar cell structures with ITO antireflection film. In: Proc. ADEPT. 4st Inter. Conf. on Advan. in Electronic and Photonic Technol. Eds. J. Kováč, jr. et al. Žilina: Univ. Žilina 2016. ISBN 978-80-554-1226-9. P. 151-154.

Huran, J., Boháček, P., Sasinková, V., Kleinová, A., Mikolášek, M., Kobzev, A., Hrubčín, L., Arbet, J., and Sekáčová, M.: Silicon carbide thin films deposited by PECVD technology for applications in photoelectrochemical water splitting devices. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 215-219.

22.) 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: 57529 €

Dosiahnuté výsledky:

Kováč, P., Hušek, I., Melišek, T., Kopera, L., and Kulich, M.: Fast creation of dense MgB₂ phase in wires made by IMD process, Supercond. Sci Technol. 26 (2016) 10LT01.

Kováč, P., Hušek, I., Pachla, W., Melišek, T., Kulich, M., Rosová, A., and Kopera, L.: Effect of cold isostatic pressing on the transport current of filamentary of MgB₂ wire made by the IMD process, Supercond. Sci Technol. 26 (2016) 075004.

Kováč, P., Hušek, I., Kulich, M., Melišek, T., Kováč, J., and Kopera, L.: MgB₂ wires with Ti and NbTi barrier made by IMD process, Cryogenics 79 (2016) 74-78.

Brunner, B., Reissner, M., Kulich, M., and Kováč, P.: Magnetic studies of MgB₂ prepared by internal magnesium diffusion with various doping, IEEE Trans. Applied Supercond. 26 (2016) 6201205.

Kováč, P., Hušek, I., Melišek, T., Kulich, M., and Kopera, L.: Bending strain tolerance of a MgB₂ superconducting wires, Supercond. Sci Technol. 29 (2016) 045002.

23.) Polovodičové nanomembrány pre hybridné súčiastky (*Semiconductor nanomembranes for hybrid devices*)

Zodpovedný riešiteľ: Róbert Kúdela
Trvanie projektu: 1.7.2016 / 31.12.2019
Evidenčné číslo projektu: 15-0243
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 23250 €

Dosiahnuté výsledky:

Gucmann, F., Gregušová, D., Válik, L., Ťapajna, M., Haščík, Š., Hušeková, K., Fröhlich, K., Pohorelec, O., and Kuzmík, J.: DC and pulsed IV characterisation of AlGaIn/GaN MOS-HEMT with Al₂O₃ gate dielectric prepared by various techniques. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 9-12.

24.) GaN monolitické integrované obvody (*GaN Monolithic Integrated Circuits*)

Zodpovedný riešiteľ: Ján Kuzmík
Trvanie projektu: 1.7.2016 / 30.6.2019
Evidenčné číslo projektu: 15-0673
Organizácia je koordinátorom projektu: nie
Koordinátor: Fakulta elektrotechniky a informatiky Slovenská technická univerzita v Bratislave
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 12500 €

Dosiahnuté výsledky:

Gucmann, F., Gregušová, D., Válik, L., Ťapajna, M., Haščík, Š., Hušeková, K., Fröhlich, K., Pohorelec, O., and Kuzmík, J.: DC and pulsed IV characterisation of AlGaIn/GaN MOS-HEMT with Al₂O₃ gate dielectric prepared by various techniques. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 9-12.

Blaho, M., Gregušová, D., Haščík, Š., Seifertová, A., Ťapajna, M., Šoltýs, J., Šatka, A., Nagy, L., Chvála, A., Marek, J., Priesol, J., and Kuzmík, J.: Post-deposition annealing and thermal stability of integrated self-aligned E/D-mode n++GaIn/InAlIn/AlIn/GaN MOS HEMTs. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 177-180.

Stoklas, R., Gregušová, D., Fröhlich, K., and Kuzmík, J.: Temperature-dependent of sub-threshold slope of AlGaIn/GaN MOSHFETs with HfO₂ gate oxide prepared by ALD. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 189-192.

25.) Normálne zatvorené spínacie tranzistory na báze GaN pre efektívne prevodníky výkonu (*GaN-based normally-off high power switching transistor for efficient power converters*)

Zodpovedný riešiteľ: Ján Kuzmík
Trvanie projektu: 1.1.2016 / 31.12.2016
Evidenčné číslo projektu: DO7RP0021
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 5429 €

26.) Tranzistory s InN-kanálom pre THz mikrovlny a logiku (*Transistors with InN channel for THz microwaves and logic*)

Zodpovedný riešiteľ: Ján Kuzmík
Trvanie projektu: 1.7.2016 / 30.6.2019
Evidenčné číslo projektu: 15-0031
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 36667 €

Dosiahnuté výsledky:

Ťapajna, M., Hušeková, K., Pohorelec, O., Válik, L., Haščík, Š., Gucmann, F., Fröhlich, K., Gregušová, D., and Kuzmík, J.: Effect of HCl pretreatment on the oxide/semiconductor interface state density in AlGaN/GaN MOS-HEMT structures with MOCVD grown Al₂O₃ gate dielectric. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 207-211.

Ťapajna, M., Válik, L., Gregušová, D., Fröhlich, K., Gucmann, F., Hashizume, T., and Kuzmík, J.: Threshold voltage instabilities in AlGaN/GaN MOS-HEMTs with ALD-grown Al₂O₃ gate dielectrics: relation to distribution of oxide/semiconductor interface state density. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 1-4.

27.) Širokopásmový MEMS detektor terahertzového žiarenia (*Broadband MEMS detector of terahertz radiation*)

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: 54590 €

Dosiahnuté výsledky:

Osvald, J.: Electrical properties of back-to-back metal/insulator/semiconductor diodes based on AlGa_N/Ga_N heterostructure. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 231-234.

Španková, M., Štrbik, V., Dobročka, E., Chromik, Š., Sojková, M., Zheng, D., and Li, J.: Characterization of epitaxial LSMO thin films with high Curie temperature prepared on different substrates. Vacuum 126 (2016) 24-28.

Dzuba, J., Vanko, G., Babchenko, O., Lalinský, T., Horvát, F., Szarvas, M., Kováč, T., and Hučko, B.: Strain induced response of AlGa_N/Ga_N high electron mobility transistor located on cantilever and membrane. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 227-230.

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

Zodpovedný riešiteľ: Zoltán Lenčoš
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: 12000 €

29.) 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: 14-0745
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 25000 €

Dosiahnuté výsledky:

Nedeštruktívnosť nano-obrábania v podpovrchovej oblasti rtg germániovej optiky sa potvrdila ďalšími meraniami a analýzami, kde sme napr. pomocou TEM analýzy nepozorovali žiadne novovznikuté dislokácie. Ďalšie rtg topografické merania, ktoré boli vykonané na synchrotróne v ESRF Grenoble sú ešte v štádiu vyhodnocovania.

Zápražný, Z., Korytár, D., Jergel, M., Šiffalovič, P., Halahovets, Y., Keckes, J., Matko, I., Ferrari, C., Vagovič, P., and Mikloška, M.: Nano-machining for advanced x-ray crystal optics, AIP Conf. Proc. 1764 (2016) 020005.

Hrivňak, S., Uličný, J., Mikeš, L., Cecilia, A., Hamann, E., Baumbach, T., Švéda, L., Zápražný, Z., Korytár, D., Gimenez, E., Wagner, U., Rau, C., Greven, H., and Vagovič, P.: Single-distance phase retrieval algorithm for Bragg Magnifier microscope. Optics Express 24 (2016) 27753-27762.

Végső, K., Jergel, M., Šiffalovič, P., Majková, E., Korytár, D., Zápražný, Z., Mikulík, P. and Vagovič, P.: Towards high-flux X-ray beam compressing channel-cut monochromators. J. Applied Crystall. 49 (2016) 1885-1892.

30.) 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: 20514 €

Dosiahnuté výsledky:

Novák, J., Laurenčíková, A., Hasenöhrl, S., and Novotný, I.: Young modulus and microhardness of ZnO nanolayers prepared by RF sputtering. In: 19. Škola vák. techniky. Eds. M. Michalka, A. Vincze. Bratislava: SVS, 2016. P. 34-38. ISBN 978-80-971179-7-9.

Lettrichová, I., Pudiš, D., Laurenčíková, A., Gašo, P., Šušlik, L., Jandura, D., Ďurišová, J., and Novák, J.: LED with 1D and 2D Fresnel structure in the surface. In: 19. Škola vák. techniky. Eds. M. Michalka, A. Vincze. Bratislava: SVS, 2016. P. 87-90. ISBN 978-80-971179-7-9.

31.) 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: 38835 €

Dosiahnuté výsledky:

Mikulics, M., Arango, Y., Winden, A., Adam, R., Hardtdegen, A., Grützmacher, D., Plinski, E., Gregušová, D., Novák, J., Kordoš, P., Moonshiram, A., Marso, M., Sofer, Z., Lüth, H., and Hardtdegen, H.: Direct electro-optical pumping for hybrid CdSe nanocrystal/III-nitride based nano-light-emitting diodes. *Applied Phys. Lett.* 108 (2016) 061107.

32.) 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: 76148 €

Dosiahnuté výsledky:

Michalcová, E., Gömöry, F., Frolek, L., Drienovský, M., Pekarčíková, M., Skarba, M., Mišík, J., and Janovec, J.: Joining of CC tapes with lead-free solders. *IEEE Trans. Applied Supercond.* 26 (2016) 8801104.

Mišík, J., Gömöry, F., Vávra, I., Soloviov, M., Vojenčiak, M., Girman, V., Skarba, M., Pekarčíková, M., Michalcová, E., and Janovec, J.: Structural study of commercially produced (RE)BCO films. *IEEE Trans. Applied Supercond.* 26 (2016) 6600804.

33.) 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: 63671 €

Dosiahnuté výsledky:

Zehetner, J., Kraus, S., Lucki, M., Vanko, G., Dzuba, J., and Lalinský, T.: Manufacturing of membranes by laser ablation in SiC, sapphire, glass and ceramic for GaN/ferroelectric thin film MEMS and pressure sensors. *Microsyst. Technol.* 22 (2016) 1883-1892.

Babchenko, O., Vanko, G., Dzuba, J., Ižák, T., Vojs, M., Lalinský, T., and Kromka, A.: Schottky contact metallization stability on AlGaIn/GaN heterostructure during the diamond deposition process. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 157-160.

Dzuba, J., Vanko, G., Babchenko, O., Lalinský, T., Horvát, F., Szarvas, M., Kováč, T., and Hučko, B.: Strain induced response of AlGaIn/GaN high electron mobility transistor located on cantilever and membrane. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 227-230.

Programy: Štrukturálne fondy EÚ Výskum a vývoj

34.) 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 / 31.3.2016
Evidenčné číslo projektu: ITMS 26220220170
Organizácia je koordinátorom projektu: nie
Koordinátor: Integra TDS, s. r. o.
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie:

Dosiahnuté výsledky:

Zápražný, Z., Korytár, D., Jergel, M., Šiffalovič, P., Halahovets, Y., Keckes, J., Matko, I., Ferrari, C., Vagovič, P., and Mikloška, M.: Nano-machining for advanced x-ray crystal optics, AIP Conf. Proc. 1764 (2016) 020005.

Programy: SASPRO

35.) 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: 55868 €

Dosiahnuté výsledky:

Babchenko, O., Vanko, G., Dzuba, J., Ižák, T., Vojs, M., Lalinský, T., and Kromka, A.: Schottky contact metallization stability on AlGaIn/GaN heterostructure during the diamond deposition process. In: ASDAM 2016. Eds. Š. Haščík et al. IEEE 2016. ISBN 978-1-5090-3081-1. P. 157-160.

36.) Spinové vlny v exotických štruktúrach (*Waves in exotic spin textures*)

Zodpovedný riešiteľ: Michal Mruczkiewicz
Trvanie projektu: 4.1.2016 / 31.12.2018
Evidenčné číslo projektu: 1244/02/01
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 44283 €

Dosiahnuté výsledky:

Mruczkiewicz, M., Gruszecki, P., Zelent, M., and Krawczyk, M.: Collective dynamical skyrmion excitations in a magnonic crystal, *Phys. Rev. B* 93 (2016) 174429.

Mruczkiewicz, M. and Krawczyk, M.: Influence of the Dzyaloshinskii-Moriya interaction on the FMR spectrum of magnonic crystals and confined structures, *Phys. Rev. B* 94 (2016) 024434.

37.) Pinning v komerčných coated vodičoch (*Pinning in commercial coated conductors*)

Zodpovedný riešiteľ: Eugen Seiler
Trvanie projektu: 1.1.2016 / 31.12.2018
Evidenčné číslo projektu: 1633/03/01-b
Organizácia je koordinátorom projektu: áno
Koordinátor: Elektrotechnický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 61440 €

38.) 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: 56359 €

Dosiahnuté výsledky:

Vojenčiak, M., Dutoit, B., Šouc, J., and Gömöry, F.: Can resistive-type fault current limiter operate in cryogen-free environment?, *IEEE Trans. Applied Supercond.* 26 (2016) 5602504.

Príloha C**Publikačná činnosť organizácie (generovaná z ARL)****ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách**

- ABC01 KOVÁČ, Ján. AC losses in MgB2 wires. In MgB2 superconducting wires. - New Jersey : World Sci Publ., 2016, p. 419-438. ISBN 978-981-4725-58-3.
- ABC02 KOVÁČ, Pavol. Effect of mechanical load on Jc of MgB2 wires. In MgB2 superconducting wires. - New Jersey : World Sci Publ., 2016, p. 439-454. ISBN 978-981-4725-58-3.
- ABC03 ŠIFFALOVÍČ, Peter - VÉGSO, Karol - HODAS, Martin - JERTEL, Matej - HALAHOVETS, Yuriy - PELLETTA, Marco - KORYTÁR, Dušan - ZÁPRAŽNÝ, Zdenko - MAJKOVÁ, Eva. In situ x-ray reciprocal space mapping for characterization of nanomaterials. In X-ray and neutron techniques for nanomaterials characterization. - Berlin : Springer, 2016, p. 507-544. ISBN 978-3-662-48604-7.

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

- ADCA01 AMARO, N. - ŠOUČ, Ján - PARDO, Enric - MURTA-PINA, J. - MARTINS, J. - CEBALLOS, J.M. - GÖMÖRY, Fedor. AC losses in Bi-2223 single-pancake coils from 72 to 1152 Hz - modeling and measurements. In IEEE Transactions on Applied Superconductivity, 2016, vol. 26, 8202207. (1.092 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.
- ADCA02 BLAHO, Michal - GREGUŠOVÁ, Dagmar - HAŠČÍK, Štefan - SEIFERTO VÁ, Alena - ĎAPAJNA, Milan - ŠOLTÝS, Ján - ŠATKA, A. - NAGY, L. - CHVÁLA, A. - MAREK, J. - CARLIN, J.-F. - GRANDJEAN, N. - KONSTANTINIDIS, G. - KUZMÍK, Ján. Technology of integrated self-aligned E/D-mode n++GaN/InAlN/AlN/GaN MOS HEMTs for mixed-signal electronics. In Semiconductor Science and Technology, 2016, vol. 31, 065011. (2.098 - IF2015). (2016 - Current Contents). ISSN 0268-1242.
- ADCA03 BRUNNER, Boris - REISSNER, M. - KULICH, Miloslav - KOVÁČ, Pavol. Magnetic studies of MgB2 prepared by internal magnesium diffusion with various doping. In IEEE Transactions on Applied Superconductivity, 2016, vol. 26, 6201205. (1.092 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.
- ADCA04 BYSTRITSKY, V.M. - DUDKIN, G.N. - KRYLOV, A.R. - GAŽI, Štefan - HURAN, Jozef - NECHAEV, B.A. - PADALCO, V.N. - SADOVSKÝ, A.B. - TULEUSHEV, Yu.Zh. - FILIPOWICZ, M. - PHILIPPOV, A.V. A method for investigation of the D(4He, γ)6Li reaction in the ultralow energy region under a high background. In Nuclear Instruments and Methods in Physics Research A. Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, vol. 825, p. 24-30. (1.200 - IF2015). (2016 - Current Contents). ISSN 0168-9002.
- ADCA05 DUBECKÝ, František - OSWALD, J. - KINDL, D. - HUBÍK, P. - DUBECKÝ, Matúš - GOMBIA, E. - ŠAGÁTOVÁ, A. - BOHÁČEK, Pavol - SEKÁČOVÁ, Mária - NEČAS, V. Photocurrent spectra of semi-insulating GaAs M-S-M diodes: role of the contacts. In Solid-State Electronics, 2016, vol. 118, p. 30-35. (1.345 - IF2015). (2016 - Current Contents). ISSN 0038-1101.
- ADCA06 GRILLI, F. - VOJENČIAK, Michal - KARIO, A. - ZERMONO, V. Roebel cables: self-field critical current and AC losses under simultaneous applications of transport current and magnetic field. In IEEE Transactions on Applied Superconductivity, 2016, vol. 26, 4803005. (1.092 - IF2015). (2016 - Current Contents, WOS,

- SCOPUS). ISSN 1051-8223.
- ADCA07 HOPKINS, S.C. - MITCHELL-WILLIAMS, T.B. - VANDEN BUSSCHE, D.R. - CALLEJA, A. - VLAD, V.R. - VILARDELL, M. - GRANADOS, X. - PUIG, T. - OBRADORS, X. - USOSKIN, A. - SOLOVYOY, Mykola - VOJENČIAK, Michal - GÖMÖRY, Fedor - VAN DRIESSCHE, I. - BÄCKER, M. - GLOWACKI, B.A. Low AC loss inkjet-printed multifilamentary YBCO coated conductors. In IEEE Transactions on Applied Superconductivity, 2016, vol. 26, 6602905. (1.092 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.
- ADCA08 HRIVŇAK, S. - ULIČNÝ, Jozef - MIKEŠ, L. - CECILIA, A. - HAMANN, E. - BAUMBACH, T. - ŠVÉDA, L. - ZÁPRAŽNÝ, Zdenko - KORYTÁR, Dušan - GIMENEZ-NAVARRO, E. - WAGNER, U. - RAU, C. - GREVEN, H. - VAGOVIČ, Patrik. Single-distance phase retrieval algorithm for Bragg Magnifier microscope. In Optics Express, 2016, vol. 24, p. 27753-27762. (3.148 - IF2015). (2016 - Current Contents). ISSN 1094-4087.
- ADCA09 HRONEC, M. - FULAJTÁROVÁ, K. - VÁVRA, Ivo - SOTÁK, T. - DOBROČKA, Edmund - MIČUŠÍK, Matej. Carbon supported Pd-Cu catalysts for highly selective rearrangement of furfural to cyclopentanone. In Applied Catalysis B: Environmental, 2016, vol. 181, p. 210-219. (8.328 - IF2015). (2016 - Current Contents). ISSN 0926-3373.
- ADCA10 HUDEC, Boris - WANG, I-T. - LAI, W.-L. - CHANG, C.-C. - JANČOVIČ, Peter - FRÖHLICH, Karol - MIČUŠÍK, Matej - OMASTOVÁ, Mária - HOU, T.-H. Interface engineering HfO₂-based 3D vertical ReRAM. In Journal of Physics D: Applied Physics, 2016, vol. 49, 215102. (2.772 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 0022-3727.
- ADCA11 HUDEC, Boris - HSU, C.-W. - WANG, I-T. - LAI, W.-L. - CHANG, C.-C. - WANG, T. - FRÖHLICH, Karol - HO, C.-H. - LIN, C.-H. - HOU, T.-H. 3D resistive RAM cell design for high-density storage class memory - a review. In Science China Information Sciences, 2016, vol. 59, 061403. (0.885 - IF2015). (2016 - Current Contents, INSPEC, WOS, SCOPUS). ISSN 1674-733X.
- ADCA12 IŽÁK, T. - JIRÁSEK, V. - VANKO, Gabriel - DZUBA, Jaroslav - KROMKA, A. Temperature-dependent stress in diamond-coated AlGaIn/GaN heterostructures. In Materials and Design, 2016, vol. 106, p. 305-312. (3.997 - IF2015). (2016 - Current Contents). ISSN 0261-3069.
- ADCA13 KAČMARČÍK, Jozef - PRIBULOVÁ, Zuzana - SAMUELY, Tomáš - SZABÓ, Pavol - CAMBEL, Vladimír - ŠOLTÝS, Ján - HERRERA, E. - SUDEROW, H. - CORREA-ORELLANA, A. - PRABHAKARAN, D. - SAMUELY, Peter. Single-gap superconductivity in β -Bi₂Pd. In Physical Review B, 2016, vol. 93, 144502. (3.718 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1550-235X.
- ADCA14 KALMBACH, C.-C. - AHLERS, F.J. - SCHURR, J. - MÜLLER, A. - FEILHAUER, Juraj - KRUSKOPF, M. - PIERZ, K. - HOHLS, F. - HAUG, R.J. Nonequilibrium mesoscopic conductance fluctuations as the origin of 1/f noise in epitaxial graphene. In Physical Review B, 2016, vol. 94, 205430. (3.718 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1550-235X.
- ADCA15 KAZIMÍROVÁ, A. - PEIKERTO VÁ, P. - BARANCOKOVÁ, M. - STARUCHOVÁ, M. - TULINSKÁ, J. - VACULÍK, M. - VÁVRA, Ivo - KUKUTSCHOVÁ, J. - FILIP, P. - DUŠINSKÁ, M. Automotive airborne brake wear debris nanoparticles and cytokinesis-block micronucleus assay in peripheral blood lymphocytes: A pilot study. In Environmental Research, 2016, vol. 148, p. 443-449. (3.088 - IF2015). (2016 - Current Contents). ISSN 0013-9351.
- ADCA16 KOSTIUK, Dmytro - BODIK, Michal - ŠIFFALOVÍČ, Peter - JERGEL, Matej - HALAHOVETS, Yuriy - HODAS, Martin - PELLETTA, Marco - PELACH, Michal

- HULMAN, Martin - ŠPITÁLSKY, Zdenko - OMASTOVÁ, Mária - MAJKOVÁ, Eva. Reliable determination of the few-layer graphene oxide thickness using Raman spectroscopy. In Journal of Raman Spectroscopy, 2016, vol. 47, no. 4, p. 391-394. (2.395 - IF2015). (2016 - Current Contents). ISSN 0377-0486.
- ADCA17 KOVÁČ, Pavol - HUŠEK, Imrich - KOVÁČ, Ján - MELIŠEK, Tibor - KULICH, Miloslav - KOPERA, Ľubomír. Filamentary MgB₂ wires with low magnetization AC losses. In IEEE Transactions on Applied Superconductivity, 2016, vol. 26, 6200705. (1.092 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.
- ADCA18 KOVÁČ, Pavol - HUŠEK, Imrich - KULICH, Miloslav - MELIŠEK, Tibor - KOVÁČ, Ján - KOPERA, Ľubomír. MgB₂ wires with Ti and NbTi barrier made by IMD process. In Cryogenics, 2016, vol. 79, p. 74-78. (1.026 - IF2015). (2016 - Current Contents). ISSN 0011-2275.
- ADCA19 KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor - KOPERA, Ľubomír - KULICH, Miloslav. Fast creation of dense MgB₂ phase in wires made by IMD process. In Superconductor Science and Technology, 2016, vol. 26, 10LT01. (2.717 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- ADCA20 KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor - KULICH, Miloslav - KOPERA, Ľubomír. Bending strain tolerance of MgB₂ superconducting wires. In Superconductor Science and Technology, 2016, vol. 29, 045002. (2.717 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- ADCA21 KOVÁČ, Pavol - HUŠEK, Imrich - PACHLA, W. - MELIŠEK, Tibor - KULICH, Miloslav - ROSOVÁ, Alica - KOPERA, Ľubomír. Effect of cold isostatic pressing on the transport current of filamentary of MgB₂ wire made by the IMD process. In Superconductor Science and Technology, 2016, vol. 26, 075004. (2.717 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- ADCA22 KULICH, Miloslav - KOVÁČ, Pavol - HAIN, Miroslav - ROSOVÁ, Alica - DOBROČKA, Edmund. High density and connectivity of a MgB₂ filament made using the internal magnesium diffusion technique. In Superconductor Science and Technology, 2016, vol. 29, 035004. (2.717 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- ADCA23 MATYS, M. - STOKLAS, Roman - KUZMÍK, Ján - ADAMOWICZ, J.B. - YATABE, Z. - HASHIZUME, T. Characterization of capture cross sections of interface states in dielectric/III-nitride heterojunction structures. In Journal of Applied Physics, 2016, vol. 119, 205304. (2.101 - IF2015). (2016 - Current Contents). ISSN 0021-8979.
- ADCA24 MATYS, M. - ADAMOWICZ, J.B. - DOMANOWSKA, A. - MICHALEWICZ, A. - STOKLAS, Roman - AKAZAWA, M. - YATABE, Z. - HASHIZUME, T. On the origin of interface states at oxide/III-nitride heterojunction interfaces. In Journal of Applied Physics, 2016, vol. 120, 225305. (2.101 - IF2015). (2016 - Current Contents). ISSN 0021-8979.
- ADCA25 MEDVECKÁ, Zuzana - KLEIN, T. - CAMBEL, Vladimír - ŠOLTÝS, Ján - KARAPETROV, Goran - LEVY-BERTRAND, F. - MICHON, B. - MARCENAT, C. - PRIBULOVÁ, Zuzana - SAMUELY, Peter. Observation of a transverse Meissner effect in CuxTiSe₂ single crystals. In Physical Review B, 2016, vol. 93, 100501 R. (3.718 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1550-235X.
- ADCA26 MICHALCOVÁ, E. - GÖMÖRY, Fedor - FROLEK, Ľubomír - DRIENOVSKÝ, M. - PEKARČÍKOVÁ, M. - SKARBA, M. - MIŠÍK, J. - JANOVEC, Jozef. Joining of CC tapes with lead-free solders. In IEEE Transactions on Applied Superconductivity, 2016, vol. 26, 8801104. (1.092 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.

- ADCA27 MIKULICS, M. - ARANGO, Y.C. - WINDEN, A. - ADAM, Roman - HARDTDEGEN, A. - GRÜTZMACHER, D. - PLINSKI, E. - GREGUŠOVÁ, Dagmar - NOVÁK, Jozef - KORDOŠ, Peter - MOONSHIRAM, A. - MARSO, M. - SOFER, Z. - LUTH, H. - HARDTDEGEN, H. Direct electro-optical pumping for hybrid CdSe nanocrystal/III-nitride based nano-light-emitting diodes. In Applied Physics Letters, 2016, vol. 108, 061107. (3.142 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 0003-6951.
- ADCA28 MIŠÍK, J. - GÖMÖRY, Fedor - VÁVRA, Ivo - SOLOVYOV, Mykola - VOJENČIAK, Michal - GIRMAN, Vladimír - SKARBA, M. - PEKARČÍKOVÁ, M. - MICHALCOVÁ, E. - JANOVEC, Jozef. Structural study of commercially produced (RE)BCO films. In IEEE Transactions on Applied Superconductivity, 2016, vol. 26, 6600804. (1.092 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.
- ADCA29 MOORE, S.A. - PLUMMER, G. - FEDOR, Ján - PEARSON, J.E. - NOVOSAD, V. - KARAPETROV, Goran - IAVARONE, M. Doppler-scanning tunneling microscopy current imaging in superconductor-ferromagnet hybrids. In Applied Physics Letters, 2016, vol. 108, 042601. (3.142 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 0003-6951.
- ADCA30 MRUCZKIEWICZ, Michal - KRAWCZYK, M. Influence of the Dzyaloshinskii-Moriya interaction on the FMR spectrum of magnonic crystals and confined structures. In Physical Review B, 2016, vol. 94, 024434. (3.718 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1550-235X.
- ADCA31 MRUCZKIEWICZ, Michal - GRUSZECKI, P. - ZELENT, M. - KRAWCZYK, M. Collective dynamical skyrmion excitations in a magnonic crystal. In Physical Review B, 2016, vol. 93, 174429. (3.718 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1550-235X.
- ADCA32 PARDO, Enric - KAPOLKA, Milan - KOVÁČ, Ján - ŠOUC, Ján - GRILLI, F. - PIQUÉ, A. Three-dimensional modeling and measurement of coupling AC loss in soldered tapes and striated coated conductors. In IEEE Transactions on Applied Superconductivity, 2016, vol. 26, 4700607. (1.092 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.
- ADCA33 PARDO, Enric. Modeling of screening currents in coated conductor magnets containing up to 40000 turns. In Superconductor Science and Technology, 2016, vol. 29, 085004. (2.717 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- ADCA34 PITEL, Jozef - MELIŠEK, Tibor - TROPEANO, M - NARDELLI, D. - TUMINO, A. Mathematical model to determine the dimensions of superconducting cylindrical coils with a given central field - the case study for MgB2 conductors with isotropic $I_c(B)$ characteristic. In Physica C. Superconductivity and its applications, 2016, vol. 527, p. 104-113. (0.835 - IF2015). (2016 - Current Contents, WOS). ISSN 0921-4534.
- ADCA35 RYC, L. - DOBRZANSKI, L. - DUBECKÝ, František - JABLOŃSKI, S. - PARYS, P. - SLYSZ, W. - ROSIŃSKI, M. Development of x-ray and ion diagnostics of plasma obtained with a 10-TW femtosecond laser. In Physica Scripta, 2016, vol. 91, 074008. (1.194 - IF2015). (2016 - Current Contents). ISSN 0031-8949.
- ADCA36 SEILER, Eugen - RICHTER, D. - BORDINI, B. - BOTTURA, L. - BESSETTE, D. - VOSTNER, A. - DEVRED, A. Hysteresis losses and effective $J_c(B)$ scaling law for ITER Nb3Sn strands. In IEEE Transactions on Applied Superconductivity, 2016, vol. 26, 8200307. (1.092 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.
- ADCA37 SOLOVYOV, Mykola - ŠOUC, Ján - KOVÁČ, Ján - GÖMÖRY, Fedor - MIKULÁŠOVÁ, Edita - UŠÁKOVÁ, M. - UŠÁK, E. Design of magnetic cloak for

- experiments in AC regime. In IEEE Transactions on Applied Superconductivity, 2016, vol. 26, 0500206. (1.092 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.
- ADCA38 SOTÁK, T. - HRONEC, M. - VÁVRA, Ivo - DOBROČKA, Edmund. Sputtering processed tungsten catalysts for aqueous phase reforming of cellulose. In International Journal of Hydrogen Energy, 2016, vol. 41, p. 21936-21944. (3.205 - IF2015). (2016 - Current Contents). ISSN 0360-3199.
- ADCA39 ŠAGÁTOVÁ, A. - KUBANDA, D. - ZAŤKO, Bohumír - SEDLAČKOVÁ, K. - NEČAS, V. - SOLAR, M. - GRANJA, C. Semi-insulating GaAs based detector of fast neutrons produced by D-T nuclear reaction. In Journal of Instrumentation, 2016, vol. 11, c12002. (1.310 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1748-0221.
- ADCA40 ŠAGÁTOVÁ, A. - ZAŤKO, Bohumír - SEDLAČKOVÁ, K. - BOHÁČEK, Pavol - FULOP, M. - KUBANDA, D. - NEČAS, V. Spectrometric properties of semi-insulating GaAs detectors irradiated by 5 MeV electrons at different dose rates. In Journal of Instrumentation, 2016, vol. 11, c12078. (1.310 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1748-0221.
- ADCA41 ŠOUC, Ján - SOLOVYOV, Mykola - GÖMÖRY, Fedor. Hiding objects in AC magnetic fields of power grid frequency by two-shell ferromagnetic/superconducting cloak. In Applied Physics Letters, 2016, vol. 109, 033507. (3.142 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 0003-6951.
- ADCA42 ŠPANKOVÁ, A. - ŠTRBÍK, Vladimír - DOBROČKA, Edmund - CHROMIK, Štefan - SOJKOVÁ, Michaela - ZHENG, D.N. - LI, J. Characterization of epitaxial LSMO thin films with high Curie temperature prepared on different substrates. In Vacuum, 2016, vol. 126, p. 24-28. (1.558 - IF2015). (2016 - Current Contents). ISSN 0042-207X.
- ADCA43 TAKÁCS, Silvester. Time constant of round superconducting structures determined from the time development of the induced magnetic field. In Cryogenics, 2016, vol. 80, p. 90-96. (1.026 - IF2015). (2016 - Current Contents). ISSN 0011-2275.
- ADCA44 ĎAPAJNA, Milan - HILT, O. - BAHAT-TREIDEL, E. - WÜRFL, H.-J. - KUZMÍK, Ján. Gate reliability investigation in normally-off p-type-gan cap/AlGaN/GaN HEMTs under forward bias stress. In IEEE Electron Device Letters, 2016, vol. 37, p. 385 - 388. (2.528 - IF2015). (2016 - Current Contents). ISSN 0741-3106.
- ADCA45 TSINDLEKHT, M.I. - GENKIN, V.M. - FELNER, I. - ZEIDES, F. - KATZ, N. - GAŽI, Štefan - CHROMIK, Štefan - DOBROVOLSKIY, O.V. - SACHSER, R. - HUTH, M. dc and ac magnetic properties of thin-walled Nb cylinders with and without a row of antidots. In Journal of Physics: Condensed Matter, 2016, vol. 28, 215701. (2.209 - IF2015). (2016 - Current Contents). ISSN 0953-8984.
- ADCA46 TSINDLEKHT, M.I. - GENKIN, V.M. - FELNER, I. - ZEIDES, F. - KATZ, N. - GAŽI, Štefan - CHROMIK, Štefan. Giant flux jumps through a thin superconducting nb film in a vortex free region. In Physica C. Superconductivity and its applications, 2016, vol. 529, p. 1-7. (0.835 - IF2015). (2016 - Current Contents, WOS). ISSN 0921-4534.
- ADCA47 VÉGSO, Karol - JERGEL, Matej - ŠIFFALOVIČ, Peter - MAJKOVÁ, Eva - KORYTÁR, Dušan - ZÁPRAŽNÝ, Zdenko - MIKULÍK, P. - VAGOVIČ, Patrik. Towards high-flux X-ray beam compressing channel-cut monochromators. In Journal of Applied Crystallography, 2016, vol. 49, p. 1885-1892. (2.570 - IF2015). (2016 - Current Contents). ISSN 0021-8898.
- ADCA48 VOJENČIAK, Michal - DUTOIT, B. - ŠOUC, Ján - GÖMÖRY, Fedor. Can resistive-type fault current limiter operate in cryogen-free environment? In IEEE Transactions on Applied Superconductivity, 2016, vol. 26, 5602504. (1.092 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.

- ADCA49 ZANI, L. - BAYER, C.M. - BIANCOLINI, M.E. - BRUZZONE, P.L. - BRUTTI, C. - CIAZYNSKI, D. - COLEMAN, Michael - DURAN, I. - EISTERER, M. - FIETZ, W.H. - GADE, P.V. - GAIO, E. - GIORGETTI, F. - GOLDACKER, W. - GÖMÖRY, Fedor - GRANADOS, X. - HELLER, R. - HERTOUT, P. - HOA, C. - KARIO, A. - LACROIX, B. - LEWANDOWSKA, Marta - MAISTRELLO, A. - MUZZI, L. - NIJHUIS, A. - NUNIO, F. - PANIN, A. - PETRISOR, T. - PONCET, J.-M. - PROKOPEC, R. - SANMARTI CARDONA, M. - SAVOLDI, L. - SCHLACHTER, S. - SEDLAK, K. - STEPANOV, B. - TISEANU, I. - TORRE, A. - TURTÚ, S. - VALLCORBA, R. - VOJENČIAK, Michal - WEISS, K.-P. - WESCHE, R. - YAGOTINTSEV, K. - ZANINO, R. Overview of progress on the EU DEMO reactor magnet system design. In IEEE Transactions on Applied Superconductivity, 2016, vol. 26, 4204505. (1.092 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.
- ADCA50 ZASONŠKA, B.A. - LÍŠKOVÁ, Aurélia - KURICOVÁ, M. - TULINSKÁ, J. - POP-GEORGIEVSKI, O. - ČIAMPOR, Fedor - VÁVRA, Ivo - DUŠINSKÁ, M. - ILAVSKÁ, S. - HORVÁTHOVÁ, M. - HORÁK, Daniel. Functionalized porous silica&maghemite core-shell nanoparticles for applications in medicine: design, synthesis, and immunotoxicity. In Croatian medical journal, 2016, vol. 57, p. 165-178. (1.483 - IF2015). (2016 - Current Contents). ISSN 0353-9504.
- ADCA51 ZAŤKO, Bohumír - ŠAGÁTOVÁ, A. - BOHÁČEK, Pavol - SEDLÁČKOVÁ, Katarína - SEKÁČOVÁ, Mária - ARBET, Juraj - NEČAS, V. The influence of high-energy electrons irradiation on the electrical properties of Schottky barrier detectors based on semi-insulating GaAs. In Journal of Instrumentation, 2016, vol. 11, c01076. (1.310 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1748-0221.
- ADCA52 ZAŤKO, Bohumír - ŠAGÁTOVÁ, A. - SEDLÁČKOVÁ, K. - BOHÁČEK, Pavol - SEKÁČOVÁ, Mária - KOHOUT, Z. - GRANJA, C. - NEČAS, V. Radiation detector based on 4H-SiC used for thermal neutron detection. In Journal of Instrumentation, 2016, vol. 11, c11022. (1.310 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1748-0221.
- ADCA53 ZEHETNER, J. - KRAUS, S. - LUCKI, M. - VANKO, Gabriel - DZUBA, Jaroslav - LALINSKÝ, Tibor. Manufacturing of membranes by laser ablation in SiC, sapphire, glass and ceramic for GaN/ferroelectric thin film MEMS and pressure sensors. In Microsystem Technologies-micro-and nanosystems-onformation storage and processing systems, 2016, vol. 22, p. 1883-1892. (0.974 - IF2015). (2016 - Current Contents). ISSN 0946-7076.

ADEA Vedecké práce v ostatných zahraničných časopisoch – impaktovaných

- ADEA01 PINČÍK, Emil - KOBAYASHI, H. - BRUNNER, Róbert - IMAMURA, K. - MIKULA, M. - KUČERA, Michal - VOJTEK, P. - ZÁBUDLÁ, Z. - ŠVEC, Peter - GREGUŠ, J. - ŠVEC, Peter Jr. Physical properties and light-related applications of black silicon structures. In Journal of Materials Science and Engineering B, 2016, vol. 6, no. 5-6, p. 144-152. (2.331 - IF2015). (2016 - Current Contents). ISSN 0921-5107.

ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

- ADEB01 BRUNNER, Róbert - PINČÍK, Emil - KUČERA, Michal - MIKULA, M. Photoluminescence investigation of thin film a-Si:H-based structures passivated in cyanide solution. In Journal of the Chinese Advanced Materials Society, 2016, vol. 4, no. 1, p. 62-69. ISSN 2224-3682.

- ADEB02 SEDLÁČKOVÁ, K. - ŠAGÁTOVÁ, A. - ZAŤKO, Bohumír - NEČAS, V. - SOLAR, M. - GRANJA, C. MCNPX simulations of the silicon carbide semiconductor detector response to fast neutrons from D-T nuclear reaction. In International Journal of Modern Physics: Conference Series : proceedings of the 2015 International Conference on Applications of Nuclear Techniques (CRETE15) Crete, Greece, 14-20 June 2015, 2016, vol. 44, 1660226. ISSN 2010-1945.
- ADEB03 ŠAGÁTOVÁ, A. - ZAŤKO, Bohumír - SEDLÁČKOVÁ, K. - PAVLOVIČ, M. - NEČAS, V. - FULOP, M. - SOLAR, M. - GRANJA, C. Semi-insulating GaAs detectors with HDPE layer for detection of fast neutrons from D-T nuclear reaction. In International Journal of Modern Physics: Conference Series : proceedings of the 2015 International Conference on Applications of Nuclear Techniques (CRETE15) Crete, Greece, 14-20 June 2015, 2016, vol. 44, 1660233. ISSN 2010-1945.
- ADEB04 ZAŤKO, Bohumír - ŠAGÁTOVÁ, A. - SEDLÁČKOVÁ, K. - NEČAS, V. - DUBECKÝ, František - SOLAR, M. - GRANJA, C. Detection of fast neutrons from D-T nuclear reaction using 4H-SiC radiation detector. In International Journal of Modern Physics: Conference Series : proceedings of the 2015 International Conference on Applications of Nuclear Techniques (CRETE15) Crete, Greece, 14-20 June 2015, 2016, vol. 44, 1660235. ISSN 2010-1945.

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

- ADMA01 BALALYKIN, N.I. - MINASHKIN, V.Ph. - NOZDRIN, M.A. - TRUBNIKOV, G.V. - SHIRKOV, G.D. - GACHEVA, E.I. - KATIN, E.V. - KHAZANOV, E.A. - LUCHININ, G.A. - POTEOMKIN, A.K. - ZELENOGORSKII, V.V. - HURAN, Jozef. JINR LHEP photoinjector prototype. In Physics of Particles and Nuclei Letters, 2016, vol. 13, p. 897-900. (0.420 - IF2015). (2016 - SCOPUS). ISSN 1547-4771.
- ADMA02 BURKATOVSKAYA, Yu.B. - BYSTRITSKY, V.M. - DUDKIN, G.N. - KRYLOV, A.R. - LYSAKOV, A.S. - GAŽI, Štefan - HURAN, Jozef - NECHAEV, B.A. - PADALKO, V.N. - SADOVSKY, A.B. - TULEUSHEV, Yu.Zh. - FILIPOWICZ, M. - PHILIPPOV, A.V. Investigation of the reaction $D(4\text{He}, \gamma)6\text{Li}$ at ultralow energies. In Physics of Particles and Nuclei Letters, 2016, vol. 13, p. 190-197. (0.420 - IF2015). (2016 - SCOPUS). ISSN 1547-4771.
- ADMA03 BYSTRITSKY, V.M. - DUDKIN, G.N. - FILIPOWICZ, M. - HURAN, Jozef - KRYLOV, A.R. - NECHAEV, B.A. - PADALKO, V.N. - PENKOV, F.M. - PHILIPPOV, A.V. - TULEUSHEV, Yu.Zh. Effect of pd and dd reactions enhancement in deuterides TiD_2 , ZrD_2 and Ta_2D in the astrophysical energy range. In Physics of Particles and Nuclei Letters, 2016, vol. 13, p. 79-97. (0.420 - IF2015). (2016 - SCOPUS). ISSN 1547-4771.

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

- ADMB01 BALALYKIN, N.I. - HURAN, Jozef - NOZDRIN, M.A. - FESHCHENKO, A.A. - KOBZEV, A.P. - ARBET, Juraj. Transmission photocathodes based on stainless steel mesh and quartz glass coated with n doped DLC thin films prepared by reactive magnetron sputtering. In Journal of Physics: Conference Series, 2016, vol. 700, 012050. (2016 - SCOPUS, WOS). ISSN 1742-6588.
- ADMB02 BRUNNER, Boris - REISSNER, M. - KOVÁČ, Pavol - YAO, C. - ZHANG, X. - MA, Y. Magnetic investigation of silver sheathed $\text{Sr}_0.6\text{K}_0.4\text{Fe}_2\text{As}_2$ superconductor. In Physics Procedia, 2015, vol. 75, p. 34-40. (2015 - SCOPUS). ISSN 1875-3892.

- ADMB03 IŽÁK, T. - BABCHENKO, Oleg - JIRÁSEK, V. - VANKO, Gabriel - VOJS, M. - KROMKA, A. Influence of diamond CVD growth conditions and interlayer material on diamond/GaN interface. In Materials Science Forum, 2015, vol. 821-823, p. 982-985. (2015 - SCOPUS, WOS). ISSN 0255-5476.
- ADMB04 KRATOŠOVÁ, G. - NATŠINOVÁ, M. - HOLIŠOVÁ, V. - OBALOVÁ, L. - CHROMČÁKOVÁ, Ž. - VÁVRA, Ivo. Transmission electron microscopy observation of bionanogold used for preliminary N₂O decomposition testing. In Advanced Science Letters : a Special Issue: Selected Peer-Reviewed Articles from NanoOstrava 2015, Czech Republic, 18-21 May, 2015, 2016, vol. 22, p. 631-636. (2016 - WOS, SCOPUS). ISSN 1936-6612.
- ADMB05 KRATOŠOVÁ, G. - KONVIČKOVÁ, Z. - VÁVRA, Ivo - ZAPOMĚLOVÁ, Eliška - MAHENDRA, R. - SCHRÖFEL, A. Noble metal nanoparticles synthesis mediated by the genus dolichospermum: perspective of green approach in the nanoparticles preparation. In Advanced Science Letters : a Special Issue: Selected Peer-Reviewed Articles from NanoOstrava 2015, Czech Republic, 18-21 May, 2015, 2016, vol. 22, p. 637-641. (2016 - WOS, SCOPUS). ISSN 1936-6612.
- ADMB06 MIKULA, P. - VRANA, M. - KORYTÁR, Dušan. Edge refraction contrast imaging on a conventional neutron diffractometer employing dispersive double-crystal monochromator. In Physics Procedia, 2015, vol. 69, p. 320-326. (2015 - SCOPUS). ISSN 1875-3892.
- ADMB07 NURGALIEV, T. - BLAGOEV, B. - ŠTRBÍK, Vladimír - CHROMIK, Štefan - SOJKOVÁ, Michaela. Investigation of resistive properties of HTS/manganite bilayers. In Journal of Physics: Conference Series, 2016, vol. 700, 012020. (2016 - SCOPUS, WOS). ISSN 1742-6588.
- ADMB08 SOJKOVÁ, Michaela - ŠTRBÍK, Vladimír - NURGALIEV, T. - CHROMIK, Štefan - DOBROČKA, Edmund - ŠPANKOVÁ, Marianna - BLAGOEV, B. - GÁL, Norbert. Fabrication of hybrid thin film structures from HTS and CMR materials. In Journal of Physics: Conference Series, 2016, vol. 700, 012022. (2016 - SCOPUS, WOS). ISSN 1742-6588.
- ADMB09 ŠTRBÍK, Vladimír - BEŇAČKA, Štefan - GAŽI, Štefan - ŠPANKOVÁ, Marianna - ŠMATKO, Vasilij - CHROMIK, Štefan - GÁL, Norbert - KNOŠKA, Juraj - SOJKOVÁ, Michaela - PISARČÍK, M.. Transport properties of YBa₂Cu₃O_x/La_{0.67}Sr_{0.33}MnO₃ nanostripes and YBa₂Cu₃O_x/La_{0.67}Sr_{0.33}MnO₃/YBa₂Cu₃O_x nanojunctions. In Journal of Physics: Conference Series, 2016, vol. 700, 012021. (2016 - SCOPUS, WOS). ISSN 1742-6588.
- ADMB10 VLČEK, J. - OTIPKA, P. - LESŇÁK, M. - VÁVRA, Ivo. Effective medium approximation of anisotropic materials with radiative correction. In Proceedings of the SPIE, 2015, vol. 9502, 950217. (2015 - SCOPUS, WOS). ISSN 0277-786X.
- ADMB11 ZÁPRAŽNÝ, Zdenko - KORYTÁR, Dušan - JERGEL, Matej - ŠIFFALOVÍČ, Peter - HALAHOVETS, Yuriy - KECKES, J. - MAŤKO, Igor - FERRARI, C. - VAGOVIČ, Patrik - MIKLOŠKA, M. Nano-machining for advanced x-ray crystal optics. In AIP Conference Proceedings, 2016, vol. 1764, 020005. ISSN 0094-243X.
- ADMB12 ZEMANOVÁ, Matilda - DRUGA, J. - SZÚNYOGH, J. - DOBROČKA, Edmund. Ni-W alloys for hydrogen evolution. In Materials Science Forum, 2016, vol. 844, p. 167-171. ISSN 0255-5476.

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

- ADNA01 HARMATHA, L. - MIKOLÁŠEK, M. - STUHLÍKOVÁ, Ľ. - KÓSA, A. - ŽIŠKA, Milan - HRUBČÍN, Ladislav - SKURATOV, V.A. Electrically active defects in solar cells based on amorphous silicon/crystalline silicon heterojunction after

irradiation by heavy Xe ions. In Journal of Electrical Engineering, 2015, vol. 66, p. 323-328. (0.378 - IF2014). (2015 - INSPEC, SCOPUS, WOS). ISSN 1335-3632.

AECA Vedecké práce v zahraničných recenzovaných zborníkoch a kratšie kapitoly/state v zahraničných vedeckých monografiách alebo VŠ učebniciach

- AECA01 BABCHENKO, Oleg - VANKO, Gabriel - DZUBA, Jaroslav - IŽÁK, T. - VOJS, M. - LALINSKÝ, Tibor - KROMKA, A. Schottky contact metallization stability on AlGaIn/GaN heterostructure during the diamond deposition process. In ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems. - IEEE, 2016, p. 157-160. ISBN 978-1-5090-3081-1.
- AECA02 BENKO, P. - MIKOLÁŠEK, M. - HARMATHA, L. - FRÖHLICH, Karol. The influence of ozone pre-treatment in Hf₂-based resistive switching memory structures. In ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems. - IEEE, 2016, p. 243-246. ISBN 978-1-5090-3081-1.
- AECA03 BLAHO, Michal - GREGUŠOVÁ, Dagmar - HAŠČÍK, Štefan - SEIFERTO VÁ, Alena - ŤAPAJNA, Milan - ŠOLTÝS, Ján - ŠATKA, A. - NAGY, L. - CHVÁLA, A. - MAREK, J. - PRIESOL, J. - KUZMÍK, Ján. Post-deposition annealing and thermal stability of integrated self-aligned E/D-mode n⁺⁺GaN/InAlN/AlN/GaN MOS HEMTs. In ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems. - IEEE, 2016, p. 177-180. ISBN 978-1-5090-3081-1.
- AECA04 DUBECKÝ, František - VANKO, Gabriel - KINDL, D. - HUBÍK, P. - GOMBIA, E. - BOHÁČEK, Pavol - SEKÁČOVÁ, Mária - ZATKO, Bohumír. Investigation of metal contacts on semi-insulating GaAs: physics, technology and applications. In ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems. - IEEE, 2016, p. 219-222. ISBN 978-1-5090-3081-1.
- AECA05 DZUBA, Jaroslav - VANKO, Gabriel - BABCHENKO, Oleg - LALINSKÝ, Tibor - HORVAT, František - SZARVAS, M. - KOVÁČ, Tomáš - HUČKO, B. Strain induced response of AlGaIn/GaN high electron mobility transistor located on cantilever and membrane. In ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems. - IEEE, 2016, p. 227-230. ISBN 978-1-5090-3081-1.
- AECA06 FLOROVÍČ, M. - ŠKRINIAROVÁ, J. - GREGUŠOVÁ, Dagmar - KOVÁČ, Jaroslav - KORDOŠ, Peter. Trap analysis in GaN-based heterostructures using current transients measurements. In ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems. - IEEE, 2016, p. 185-188. ISBN 978-1-5090-3081-1.
- AECA07 GRUSZECKI, P. - RYCHŁY, J. - MRUCZKIEWICZ, Michal - KRAWCZYK, M. Nonreciprocal properties of GHz frequency surface spin waves in nanopatterned ferromagnetic films. In MIKON 2016 : 2016 21st International Conference on Microwave, Radar and Wireless Communications, Krakow May 9-11, 2016, Poland. - IEEE, 2016. ISBN 978-1-5090-2214-4.
- AECA08 GUCMANN, Filip - GREGUŠOVÁ, Dagmar - VÁLIK, Lukáš - ŤAPAJNA, Milan - HAŠČÍK, Štefan - HUŠEKOVÁ, Kristína - FRÖHLICH, Karol - POHORELEC, Ondrej - KUZMÍK, Ján. DC and pulsed IV characterisation of AlGaIn/GaN MOS-HEMT with Al₂O₃ gate dielectric prepared by various techniques. In ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems. - IEEE, 2016, p. 9-12. ISBN 978-1-5090-3081-1.
- AECA09 HOTOVÝ, I. - HAŠČÍK, Štefan - PREDANOCY, M. - MIKOLÁŠEK, M. - REHACEK, V. - KOSTIČ, Ivan - NEMEC, Pavol - BENČUROVÁ, Anna -

- ROSSBERG, D. - SPIESS, L. The effect of process parameters and annealing on the properties of Ti/Pt films for miniature temperature sensors. In ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems. - IEEE, 2016, p. 85-88. ISBN 978-1-5090-3081-1.
- AECA10 HURAN, Jozef - BOHÁČEK, Pavol - SASINKOVÁ, Vlasta - KLEINOVÁ, Angela - MIKOLÁŠEK, M. - KOBZEV, A.P. - HRUBČÍN, Ladislav - ARBET, Juraj - SEKÁČOVÁ, Mária. Silicon carbide thin films deposited by PECVD technology for applications in photoelectrochemical water splitting devices. In ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems. - IEEE, 2016, p. 215-218. ISBN 978-1-5090-3081-1.
- AECA11 MIKOLÁŠEK, M. - KOVÁČ, Jaroslav - HURAN, Jozef - PERNÝ, M. - ŠÁLY, V. - HARMATHA, L. Analysis of low temperature current-voltage measurements under illumination of silicon heterojunction solar cells. In 31th European Photovoltaic Solar Energy Conference and Exhibition : proceedings of the International Conference held in Hamburg, Germany, 14 - 18 September 2015. - Munchen : WIP, 2015, P. 817-820. ISBN 3-936338-39-6.
- AECA12 MIKOLÁŠEK, M. - RACKO, J. - REHACEK, V. - HARMATHA, L. - ŤAPAJNA, Milan - FRÖHLICH, Karol. Silicon based metal-insulator-semiconductor structures for photoelectrochemical solar fuel generation. In ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems. - IEEE, 2016, p. 45-48. ISBN 978-1-5090-3081-1.
- AECA13 OSVALD, Jozef. Electrical properties of back-to-back metal/insulator/semiconductor diodes based on AlGaIn/GaN heterostructure. In ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems. - IEEE, 2016, p. 231-234. ISBN 978-1-5090-3081-1.
- AECA14 PACKA, J. - PERNÝ, M. - VÁRY, M. - MIKOLÁŠEK, M. - ŠÁLY, V. - HURAN, Jozef. Accelerated ageing of a-SiC:H/c-Si photovoltaic heterostructures. In Proceedings of the 17th International Scientific Conference on Electric Power Engineering : Prague May 2016. - IEEE, 2016, p. 1-5. ISBN 978-1-5090-0907-7.
- AECA15 PERNÝ, M. - VÁRY, M. - ŠÁLY, V. - MIKOLÁŠEK, M. - HURAN, Jozef. The influence of neutrons and Xe-ions flux on c-Si – a-SiC photovoltaic device. In 32th European Photovoltaic Solar Energy Conference and Exhibition : proceedings of the International Conference held in Munich, Germany, 20 - 24 June 2016. - Munchen : WIP, 2016, p. 260-262. ISBN 3-936338-41-8. ISSN 2196-0992.
- AECA16 PERNÝ, M. - ŠÁLY, V. - HURAN, Jozef - MIKOLÁŠEK, M. - VÁRY, M. Heterojunction a-SiC:H/c-Si solar cells structures and their electrical characterization. In 31th European Photovoltaic Solar Energy Conference and Exhibition : proceedings of the International Conference held in Hamburg, Germany, 14 - 18 September 2015. - Munchen : WIP, 2015, p. 683-687. ISBN 3-936338-39-6.
- AECA17 STOKLAS, Roman - GREGUŠOVÁ, Dagmar - FRÖHLICH, Karol - KUZMÍK, Ján. Temperature-dependent of sub-threshold slope of AlGaIn/GaN MOSFETs with HfO₂ gate oxide prepared by ALD. In ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems. - IEEE, 2016, p. 189-192. ISBN 978-1-5090-3081-1.
- AECA18 ŠAGÁTOVÁ, A. - ZATKO, Bohumír - SEDLAČKOVÁ, K. - NEČAS, V. - BOHÁČEK, Pavol. Optimization of SI GaAs detector for thermal neutron detection. In ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems. - IEEE, 2016, p. 23-26. ISBN 978-1-5090-3081-1.
- AECA19 ŤAPAJNA, Milan - HUŠEKOVÁ, Kristína - POHORELEC, Ondrej - VÁLIK, Lukáš - HAŠČÍK, Štefan - GUCMANN, Filip - FRÖHLICH, Karol - GREGUŠOVÁ, Dagmar - KUZMÍK, Ján. Effect of HCl pretreatment on the oxide/semiconductor interface state density in AlGaIn/GaN MOS-HEMT structures

- with MOCVD grown Al₂O₃ gate dielectric. In ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems. - IEEE, 2016, p. 207-210. ISBN 978-1-5090-3081-1.
- AECA20 ŤAPAJNA, Milan - VÁLIK, Lukáš - GREGUŠOVÁ, Dagmar - FRÖHLICH, Karol - GUCMANN, Filip - HASHIZUME, T. - KUZMÍK, Ján. Threshold voltage instabilities in AlGa_N/Ga_N MOS-HEMTs with ALD-grown Al₂O₃ gate dielectrics: relation to distribution of oxide/semiconductor interface state density. In ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems. - IEEE, 2016, p. 1-4. ISBN 978-1-5090-3081-1.
- AECA21 VANKO, Gabriel - DZUBA, Jaroslav - RÝGER, Ivan - VALLO, Martin - LALINSKÝ, Tibor. MEMS pressure sensor with an AlGa_N/Ga_N based high electron mobility transistor. In NSTI: Advanced Materials - TechConnect Briefs 2015 : 10th Annual TechConnect World Innovation Conference and Expo, Held Jointly with the 18th Annual Nanotech Conference and Expo, and the 2015 National SBIR/STTR Conference; Washington; United States; 14 June 2015. 4.Vol. - Taylor and Francis Inc., 2015, p. 290-293. ISBN 978-149874730-1.
- AECA22 ZAŤKO, Bohumír - HRUBČÍN, Ladislav - ŠAGÁTOVÁ, A. - BOHÁČEK, Pavol - DUBECKÝ, František - SEDLAČKOVÁ, K. - SEKÁČOVÁ, Mária - ARBET, Juraj - NEČAS, V. - SKURATOV, V.A. Particle detectors based on 4H-SiC epitaxial layer and their properties. In ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems. - IEEE, 2016, p. 141-144. ISBN 978-1-5090-3081-1.
- AECA23 ZEHETNER, J. - VANKO, Gabriel - DZUBA, Jaroslav - LALINSKÝ, Tibor. Nanostructuring of bulk Si and SiC substrates by femtosecond laser ablation for membrane fabrication and surface functionalization. In ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems. - IEEE, 2016, p. 223-226. ISBN 978-1-5090-3081-1.

AEDA Vedecké práce v domácich recenzovaných zborníkoch, kratšie kapitoly/state v domácich monografiách alebo VŠ učebniciach

- AEDA01 DUBECKÝ, František - HUBÍK, P. - KINDL, D. - GOMBIA, E. - BOHÁČEK, Pavol - SEKÁČOVÁ, Mária - NEČAS, V. Unexpected current lowering of Mg contact on Si-GaAs. In APCOM 2016 : Proceedings of the 22nd international conference on applied physics of condensed matter, June 22-24, 2016, Štrbské Pleso, Slovak Republic. - Bratislava : Slovenská technická univerzita v Bratislave, 2016, p. 188-192. ISBN 978-80-227-4572-7.(APCOM 2016. International Conference on Applied Physics of Condensed Matter).
- AEDA02 HURAN, Jozef - BALALYKIN, N.I. - HAŠČÍK, Štefan - FESHCHENKO, A.A. - KOBZEV, A.P. - SASINKOVÁ, Vlasta - KLEINOVÁ, Angela - ARBET, Juraj. Dry etching of phosphorus doped SiC thin films prepared by PECVD technology for transmission photocathode. In ADEPT 2016 : Proceedings of the 4th International Conference on Advances in Electronic and Photonic Technologies, held in Tatranská Lomnica, High Tatras, Slovakia, June 20-23, 2016. - Žilina : University of Žilina, 2016, p. 35-38. ISBN 978-80-554-1226-9.
- AEDA03 HURAN, Jozef - PERNÝ, M. - HRUBČÍN, Ladislav - SKURATOV, V.A. - ŠÁLY, V. - MIKOLÁŠEK, M. - KOBZEV, A.P. - ARBET, Juraj. Xe ion irradiation of heterojunction solar cell structures with ITO antireflection film. In ADEPT 2016 : Proceedings of the 4th International Conference on Advances in Electronic and Photonic Technologies, held in Tatranská Lomnica, High Tatras, Slovakia, June 20-23, 2016. - Žilina : University of Žilina, 2016, p. 151-154. ISBN 978-80-554-1226-9.

- AEDA04 KOVÁČ, Tomáš - HORVAT, František - ČEKAN, M. - HUČKO, B. - SZARVAS, M. - DZUBA, Jaroslav - VANKO, Gabriel. Numerical solution of aluminum gallium nitride membrane in finite element analysis. In APLIMAT 2016 : 15th Conference on Applied Mathematics 2016, Bratislava; Slovakia; 2 February 2016. - Bratislava : STU, 2016, p. 700-710. ISBN 978-802274531-4.
- AEDA05 LAURENČÍKOVÁ, Agáta - LETTRICHOVÁ, I. - PUDIŠ, D. - HASENÖHRL, Stanislav - ŠUŠLIK, Ľ. - HAŠČÍK, Štefan - DÉRER, Ján - NOVÁK, Jozef. Integration of fresnel structure on AlGaAs/GaAs led devices. In ADEPT 2016 : Proceedings of the 4th International Conference on Advances in Electronic and Photonic Technologies, held in Tatranská Lomnica, High Tatras, Slovakia, June 20-23, 2016. - Žilina : University of Žilina, 2016, p. 179-182. ISBN 978-80-554-1226-9.
- AEDA06 LETTRICHOVÁ, I. - PUDIŠ, D. - LAURENČÍKOVÁ, Agáta - GAŠO, P. - ŠUŠLIK, Ľ. - JANDURA, D. - ĎURIŠOVÁ, J. - NOVÁK, Jozef. LED with 1D and 2D Fresnel structure in the surface. In 19. Škola vákuovej techniky : zborník príspevkov, 9. - 12. november 2016, Štrbské Pleso, Hotel Trigan. - Bratislava : SVS, 2016, p. 87-90. ISBN 978-80-971179-7-9.
- AEDA07 MIKOLÁŠEK, M. - HARMATHA, L. - PERNÝ, M. - ŠÁLY, V. - HURAN, Jozef. Development of silicon heterojunction solar cells with IZO and ITO antireflection coatings. In Renewable Energy Sources 2016 : proceedings of the 6th International Scientific Conference OZE 2016, Tatranské Matliare, Slovakia, May 31 - June 2, 2016. - Bratislava : FEI STU, 2016, p. 104-109. ISBN 978-80-89402-82-3.
- AEDA08 NOVÁK, Jozef - LAURENČÍKOVÁ, Agáta - HASENÖHRL, Stanislav - NOVOTNÝ, I. Young modulus and microhardness of ZnO nanolayers prepared by RF sputtering. In 19. Škola vákuovej techniky : zborník príspevkov, 9. - 12. november 2016, Štrbské Pleso, Hotel Trigan. - Bratislava : SVS, 2016, p. 34-38. ISBN 978-80-971179-7-9.
- AEDA09 OSVALD, Jozef. Properties of AlGaN/GaN varactor with two dimensional electron gas. In ADEPT 2016 : Proceedings of the 4th International Conference on Advances in Electronic and Photonic Technologies, held in Tatranská Lomnica, High Tatras, Slovakia, June 20-23, 2016. - Žilina : University of Žilina, 2016, p. 245-248. ISBN 978-80-554-1226-9.
- AEDA10 PERNÝ, M. - ŠÁLY, V. - MIKOLÁŠEK, M. - VÁRY, M. - PACKA, J. - HURAN, Jozef. The influence of Xe-Ions irradiation on c-Si/a-SiC photovoltaic device. In Proceedings of International Conference DEMISEE 2016: Diagnostic of Electrical Machines and Insulating Systems in Electrical Engineering : Papradno; Slovakia; 20 June 2016 through 22 June 2016. - IEEE, 2016, p. 11-15. ISBN 978-1-5090-1249-7.
- AEDA11 PERNÝ, M. - ŠÁLY, V. - MIKOLÁŠEK, M. - KUJAN, V. - VÁRY, M. - HURAN, Jozef. Electrical properties of solar heterojunction a-SiC/c-Si irradiated by neutrons. In Renewable Energy Sources 2016 : proceedings of the 6th International Scientific Conference OZE 2016, Tatranské Matliare, Slovakia, May 31 - June 2, 2016. - Bratislava : FEI STU, 2016, p. 151-154. ISBN 978-80-89402-82-3.
- AEDA12 PINČÍK, Emil - KOBAYASHI, H. - BRUNNER, Róbert - IMAMURA, K. - MIKULA, M. - KUČERA, Michal - VOJTEK, P. - ZÁBUDLÁ, Z. - GREGUŠ, J. - BAČOVÁ, Silvia - ZITTO, Peter. Photoluminescence of black and porous silicon and solar cell application. In Alternatívne zdroje energie (ALER 2016) : 12. ročník Vedecko-odbornej konferencie. - Liptovský Mikuláš : Slovenská elektrotechnická spoločnosť, 2016, p. 108-111. ISBN 978-80-89456-26-0.
- AEDA13 SEČIANSKA, Katarína - ŠOLTÝS, Ján - TRUCHLY, M. - DÉRER, Ján - CAMBEL, Vladimír. Fabrication of double cantilever sensor for study of magnetic microstructures. In APCOM 2016 : Proceedings of the 22nd international conference on applied physics of condensed matter, June 22-24, 2016, Štrbské Pleso, Slovak

- Republic. - Bratislava : Slovenská technická univerzita v Bratislave, 2016, p. 61-64. ISBN 978-80-227-4572-7.(APCOM 2016. International Conference on Applied Physics of Condensed Matter).
- AEDA14 SEDLAČKOVÁ, K. - ZAŤKO, Bohumír - ŠAGÁTOVÁ, A. - NEČAS, V. Simulation of the thermal neutron semiconductor detector response using MCNPX code. In APCOM 2016 : Proceedings of the 22nd international conference on applied physics of condensed matter, June 22-24, 2016, Štrbské Pleso, Slovak Republic. - Bratislava : Slovenská technická univerzita v Bratislave, 2016, p. 126-130. ISBN 978-80-227-4572-7.(APCOM 2016. International Conference on Applied Physics of Condensed Matter).
- AEDA15 SZUNDIOVÁ, B. - ZAŤKO, Bohumír - BOHÁČEK, Pavol - SEKÁČOVÁ, Mária - NEČAS, V. Electrical and detection properties of bulk semi-insulating GaAs detectors. In APCOM 2016 : Proceedings of the 22nd international conference on applied physics of condensed matter, June 22-24, 2016, Štrbské Pleso, Slovak Republic. - Bratislava : Slovenská technická univerzita v Bratislave, 2016, p. 275-278. ISBN 978-80-227-4572-7.(APCOM 2016. International Conference on Applied Physics of Condensed Matter).
- AEDA16 ŠAGÁTOVÁ, A. - ZAŤKO, Bohumír - SEDLAČKOVÁ, K. - NEČAS, V. - DARÁŤOVÁ, Ľ. Gallium arsenide detectors with 6LiF layer for thermal neutron detection. In APCOM 2016 : Proceedings of the 22nd international conference on applied physics of condensed matter, June 22-24, 2016, Štrbské Pleso, Slovak Republic. - Bratislava : Slovenská technická univerzita v Bratislave, 2016, p. 45-49. ISBN 978-80-227-4572-7.(APCOM 2016. International Conference on Applied Physics of Condensed Matter).
- AEDA17 ZAŤKO, Bohumír - ŠAGÁTOVÁ, A. - BOHÁČEK, Pavol - SEKÁČOVÁ, Mária - ARBET, Juraj - NEČAS, V. The thermal neutron detection using 4H-SiC detectors with 6LiF conversion layer. In APCOM 2016 : Proceedings of the 22nd international conference on applied physics of condensed matter, June 22-24, 2016, Štrbské Pleso, Slovak Republic. - Bratislava : Slovenská technická univerzita v Bratislave, 2016, p. 37-41. ISBN 978-80-227-4572-7.(APCOM 2016. International Conference on Applied Physics of Condensed Matter).
- AEDA18 ZEHETNER, J. - VANKO, Gabriel - DZUBA, Jaroslav - LALINSKÝ, Tibor - LUCKI, M. - KRAUS, S. Micro structuring of bulk SiC substrates by femtosecond laser ablation. In APCOM 2016 : Proceedings of the 22nd international conference on applied physics of condensed matter, June 22-24, 2016, Štrbské Pleso, Slovak Republic. - Bratislava : Slovenská technická univerzita v Bratislave, 2016, p. 302-305. ISBN 978-80-227-4572-7.(APCOM 2016. International Conference on Applied Physics of Condensed Matter).

AFC Publikované príspevky na zahraničných vedeckých konferenciách

- AFC01 MICHNIAK, P. - MARTON, M. - BEHÚ, M. - REDHAMMER, R. - VANKO, Gabriel. Analysis of carbon nanowalls prepared by hot filament chemical vapour deposition. In NANOCON 2015 : 7th International Conference on Nanomaterials - Research and Application; Brno October 2015. - TANGER Ltd., 2015, p. 143-148. ISBN 978-808729463-5.
- AFC02 VANKO, Gabriel - IŽÁK, T. - BABCHENKO, Oleg - KROMKA, A. Diamond coated AlGaIn/GaN high electron mobility transistors - effect of deposition process on gate electrode. In NANOCON 2015 : 7th International Conference on Nanomaterials - Research and Application; Brno October 2015. - TANGER Ltd., 2015, p. 168-173. ISBN 978-808729463-5.

AFD Publikované príspevky na domácich vedeckých konferenciách

- AFD01 DRGA, Jozef - KORYTÁR, Dušan - ZÁPRAŽNÝ, Zdenko - JERGEL, Matej - HALAHOVETS, Yuriy. Influence of tool rake angle used for nanomachining of germanium. In Transfer 2016 : 17th International Scientific Conference, 11. - 13. 10. 2016, Trenčianske Teplice, SR. - Trenčín : FŠT TnU AD v Trenčíne, 2016. ISBN 978-80-8075-756-4.

FAI Zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy, slovníky, zborníky, atlasy ...)

- FAI01 ASDAM 2016 : the 11th International Conference on Advanced Semiconductor Devices and Microsystems. Eds. Š. Haščík, J. Dzuba, G. Vanko. IEEE, 2016. 249 s. ISBN 978-1-5090-3081-1.
- FAI02 Journal of Electrical Engineering. Bratislava : Slovak Centre of IEE : SUT, Faculty of Electrical Engineering and Information Technology : SAS, Institute of Electrical Engineering, 1994. V rokoch 1959-1994 vychádzal pod hlavným názvom Elektrotechnický časopis. Bimonthly. ISSN 1335-3632.

Ohlasy (citácie):

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

- ABC01 GÖMÖRY, Fedor - TAKÁCS, Silvester - HOLUBAR, T. - HILSCHER, G. Irreversibility line as line of constant shielding current density. In Advances in cryogenic engineering materials. - New York : Plenum Press, 1997, p. 587. ISBN 978-1-4757-9061-0.
Citácie:
1. [1.1] NIKOLO, M. - SHI, X. - CHOI, E.S. - JIANG, J. - WEISS, J.D. - HELLSTROM, E.E. In JOURNAL OF LOW TEMPERATURE PHYSICS. FEB 2015, vol. 178, no. 3-4, p. 188-199., WOS
2. [1.1] NIKOLO, M. - SHI, X. - CHOI, E.S. - JIANG, J. - WEISS, J.D. - HELLSTROM, E.E. In JOURNAL OF LOW TEMPERATURE PHYSICS. MAR 2015, vol. 178, no. 5-6, p. 345-354., WOS
- ABC02 ŠTRBÍK, Vladimír - ADAM, Roman - BEŇAČKA, Štefan - CHROMIK, Štefan. Transport critical current limitation in the oriented and nonoriented Y1Ba2Cu3O7-x thin films. In Progress in high temperature superconductors. 30.Vol. - Singapore : World Sci, 1992, p. 366.
Citácie:
1. [1.1] AKDURAN, Nurcan. In JOURNAL OF LOW TEMPERATURE PHYSICS. DEC 2015, vol. 181, no. 5-6, p. 183-196., WOS

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

- ADCA01 AARIK, J. - HUDEC, Boris - HUŠEKOVÁ, Kristína - RAMMULA, R. - KASIKOV, A. - ARROVAL, T. - UUSTARE, T. - FRÖHLICH, Karol. Atomic layer deposition of high-permittivity TiO2 dielectrics with leakage current on RuO2 in TiCl4-based processes. In Semiconductor Science and Technology, 2012, vol. 27, 074007. (1.723 - IF2011). (2012 - Current Contents). ISSN 0268-1242.
Citácie:
1. [1.1] BARYSHNIKOVA, M. - FILATOV, L. - MISHIN, M. - UVAROV, A. - KONDRATEVA, A. - ALEXANDROV, S. In PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE. JUL 2015, vol. 212, no. 7, p. 1533-1538., WOS
- ADCA02 AARIK, L. - ARROVAL, T. - RAMMULA, R. - MÄNDAR, H. - SAMMELSELG, V. - HUDEC, Boris - HUŠEKOVÁ, Kristína - FRÖHLICH, Karol - AARIK, J. Atomic layer deposition of high-quality Al2O3 and Al-doped TiO2 thin films from hydrogen-free precursors. In Thin Solid Films, 2014, vol. 565, p. 19-24. (1.867 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0040-6090.
Citácie:
1. [1.1] KUKLI, K. - KEMELL, M. - KOYKKA, J. - MIZOHATA, K. - VEHKAMAKI, M. - RITALA, M. - LESKELA, M. In THIN SOLID FILMS. AUG 31 2015, vol. 589, p. 597-604., WOS
2. [1.1] SIMON, D.K. - JORDAN, P.M. - KNAUT, M. - CHOCHAN, T. - MIKOLAJICK, T. - DIRNSTORFER, I. In 2015 IEEE 42ND PHOTOVOLTAIC SPECIALIST CONFERENCE (PVSC). 2015., WOS
3. [1.1] WINZER, A. - SZABO, N. - WACHOWIAK, A. - JORDAN, P.M. - HEITMANN, J. - MIKOLAJICK, T. In JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B. JAN 2015, vol. 33, no. 1., WOS
- ADCA03 ABERMANN, S. - POZZOVIVO, G. - KUZMÍK, Ján - OSTERMAIER, C. - HENKEL, C. - BETHGE, O. - STRASSER, G. - POGANY, D. - CARLIN, J.-F. - GRANDJEAN, N. - BERTAGNOLLI, E. Current collapse reduction in InAlN/GaN MOS HEMTs by in situ surface pre-treatment and atomic layer deposition of ZrO2 high-k gate dielectrics. In Electronics Letters, 2009, vol. 45, p. 570-572. (1.140 - IF2008). (2009 - Current Contents). ISSN 0013-5194.
Citácie:
1. [1.1] YE, G. - WANG, H. - NG, S.L.G. - JI, R. - ARULKUMARAN, S. - NG, G.I. - LI, Y. - LIU, Z.H. - ANG, K.S. In APPLIED PHYSICS LETTERS. MAR 2 2015, vol. 106, no. 9., WOS
2. [1.1] YE, G. - WANG, H. - NG, S.L.G. - JI, R. - ARULKUMARAN, S. - NG, G.I. - LI, Y. - LIU, Z.H. - ANG, K.S. In JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A. SEP 2015, vol. 33, no. 5., WOS
- ADCA04 ABERMANN, S. - POZZOVIVO, G. - KUZMÍK, Ján - STRASSER, G. - POGANY, D. - CARLIN, J.-F. - GRANDJEAN, N. - BERTAGNOLLI, E. MOCVD of HfO2 and ZrO2 high-k gate dielectrics for InAlN/AlN/GaN MOS-HEMTs. In Semiconductor Science and Technology, 2007, vol. 22, p. 1272-1275. (1.590 - IF2006). (2007 - Current Contents). ISSN 0268-1242.
Citácie:
1. [1.1] ADAK, S. - SWAIN, S.K. - PARDESHI, H. - RAHMAN, H. - SARKAR, C.K. In IST

- INTERNATIONAL CONFERENCE ON COMPUTING COMMUNICATION CONTROL AND AUTOMATION ICCUBEA 2015. 2015, p. 902-905., WOS*
2. [1.1] CHOU, B.Y. - HSU, W.C. - LIU, H.Y. - LEE, C.S. - WU, Y.S. - SUN, W.C. - WEI, S.Y. - YU, S.M. - CHIANG, M.H. In *SEMICONDUCTOR SCIENCE AND TECHNOLOGY. JAN 2015, vol. 30, no. 1., WOS*
3. [1.1] KAYA, S. - YILMAZ, E. - KARACALI, H. - CETINKAYA, A.O. - AKTAG, A. In *MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. MAY 2015, vol. 33, p. 42-48., WOS*
4. [1.1] KAYA, S. - YILMAZ, E. In *IEEE TRANSACTIONS ON ELECTRON DEVICES. MAR 2015, vol. 62, no. 3, p. 980-987., WOS*
5. [1.1] LEE, Y.C. - KAO, T.T. - SHEN, S.C. In *SEMICONDUCTOR SCIENCE AND TECHNOLOGY. APR 2015, vol. 30, no. 4., WOS*
6. [1.1] PARDESHI, H. In *SUPERLATTICES AND MICROSTRUCTURES. DEC 2015, vol. 88, p. 508-517., WOS*
- ADCA05 ABRAHAMSEN, A.B. - JENSEN, B.B. - SEILER, Eugen - MIJATOVIC, N. - RODRIGUEZ-ZERMENO, V.M. - ANDERSEN, N.H. - OSTERGARD, J. Feasibility study of 5 MW superconducting wind turbine generator. In *Physica C. Superconductivity and its applications, 2011, vol. 471, p. 1464-1469. (1.415 - IF2010). (2011 - Current Contents). ISSN 0921-4534.*
Citácie:
1. [1.1] BERG, F. - PALMER, J. - MILLER, P. - HUSBAND, M. - DODDS, G. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS*
2. [1.1] KHALIL, M.E. In *2ND INTERNATIONAL CONFERENCE ON ELECTRICAL ENGINEERING AND INFORMATION COMMUNICATION TECHNOLOGY (ICEEICT 2015). 2015., WOS*
3. [1.1] MIURA, S. - YOSHIDA, Y. - ICHINO, Y. - TSURUTA, A. - MATSUMOTO, K. - ICHINOSE, A. - AWAJI, S. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS*
4. [1.2] Kim, A.-R., Kim, K.-M., Park, H., Kim, G.-H., Park, T.-J., Park, M., Kim, S., Lee, S., Ha, H., Yoon, S., Lee, H. 2015 *IEEE Transactions on Applied Superconductivity, SCOPUS*
5. [1.2] Song, S., Lee, J., Lee, W.S., Jin, H., Lee, J., Hwang, Y.J., Ko, T.K. 2015 *IEEE Transactions on Applied Superconductivity 25 (3), 6928408, SCOPUS*
- ADCA06 ARISTOV, V.J. - LELAY, G. - SOUKIASSIAN, P. - HRICOVÍNI, K. - BONNET, J.E. - OSVALD, Jozef - OLSSON, O. Alkali-metal-induced highest Fermi-level pinning position above semiconductor conduction band minimum. In *Europhysics Letters, 1994, vol. 26, p. 359.*
Citácie:
1. [1.1] ZHANG, X.T. - FU, M.Q. - LI, X. - SHI, T.W. - NING, Z.Y. - WANG, X.Y. - YANG, T. - CHEN, Q. In *SENSORS AND ACTUATORS B-CHEMICAL. MAR 31 2015, vol. 209, p. 456-461., WOS*
- ADCA07 ATTOLINI, G. - BOCCHI, C. - GERMINI, F. - PELOSI, A. - TARRICONE, L. - KÚDELA, Róbert - HASENÖHRL, Stanislav. Effects of inhomogeneities and ordering in InGaP/GaAs system grown by MOVPE. In *Materials Chemistry and Physics, 2000, vol. 66, no. 2-3, p. 246-252. ISSN 0254-0584.*
Citácie:
1. [1.1] TSAI, J.H. In *APPLIED PHYSICS LETTERS. FEB 9 2015, vol. 106, no. 6., WOS*
- ADCA08 BALÁŽ, Peter - DUTKOVÁ, Erika - KRIL'OVÁ, Lenka - LOBOTKA, Peter - GOCK, Eberhard. Preparation of nanocrystalline materials by high-energy milling. In *Materials Science and Engineering. A. Structural Materials, 2004, vol. 386, p. 442-446. (1.363 - IF2003). (2004 - Current Contents, WOS, SCOPUS). ISSN 0921-5093.*
Citácie:
1. [1.1] ZHU, Y.D. - EDWARDS, G.A. - MARTIN, D.J. Reduction of aspect ratio of fluoromica using high-energy milling. In *Applied Clay Science, Vol. 114 (2015), 315-320, WOS*
- ADCA09 BALOG, Miroslav - ŠAJGALÍK, Pavol - HOFER, F. - WARBICHLER, P. - FRÖHLICH, Karol - VÁVRA, Ondrej - JANEK, Jozef - HUANG, J.-L. Electrically conductive SiC-(Nb, Ti)ss-(Nb, Ti)C_{ss} cermet. In *Journal of the European Ceramic Society. - Essex : Elsevier Science Publishers, 2006, vol. 26, p. 1259-1266. (2006 - Current Contents, WOS, SCOPUS). ISSN 0955-2219.*
Citácie:
1. [1.1] KIM, K.J. - KIM, M.H. - KIM, Y.W. In *JOURNAL OF THE AMERICAN CERAMIC SOCIETY. DEC 2015, vol. 98, no. 12, p. 3663-3665., WOS*
2. [1.1] SEIFERT, M. - SHEN, Z.J. - KRENKEL, W. - MOTZ, G. In *JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. OCT 2015, vol. 35, no. 12, SI, p. 3319-3327., WOS*
- ADCA10 BARDOŠOVÁ, Mária - HODGE, P. - PACH, Ladislav - PEMBLE, M.E. - ŠMATKO, Vasilij - TREDGOLD, R.H. - WHITEHEAD, D. Synthetic opals made by the Langmuir-Blodgett method. In *Thin Solid Films, 2003, vol. 437, p. 276-279. ISSN 0040-6090.*
Citácie:

1. [1.1] ARMSTRONG, Eileen - O'DWYER, Colm. Artificial opal photonic crystals and inverse opal structures fundamentals and applications from optics to energy storage. In JOURNAL OF MATERIALS CHEMISTRY C. ISSN 2050-7526, 2015, vol. 3, no. 24, pp. 6109-6143., WOS
2. [1.1] BENOIT, F. - DIEUDONNE, E. - BERTUSSI, B. - VALLE, K. - BELLEVILLE, P. - MALLEJAC, N. - ENOCH, S. - SANCHEZ, C. Development of 3D photonic crystals using sol-gel process for high power laser applications. In NANOENGINEERING: FABRICATION, PROPERTIES, OPTICS, AND DEVICES XII. ISSN 0277-786X, 2015, vol. 9556, no., pp., WOS
3. [1.1] ZHAI, Feng - YU, Bing - YUAN, Hua - CONG, Hai-Lin - PENG, Qiao-Hong - YANG, Rui-Xia - XIE, Run-Li. Preparation of Sodium Alginate Porous Materials Using Colloidal Crystals as Templates. In INTEGRATED FERROELECTRICS. ISSN 1058-4587, 2015, vol. 161, no. 1, pp. 92-97., WOS
- ADCA11 BAUMANN, P.K. - DOPPELT, P. - FRÖHLICH, Karol - GUEROUDJI, L. - CAMEL, Vladimír - MACHAJDÍK, Daniel - SCHUMACHER, M. - LINDNER, J. - SCHIENLE, F. - BURGESS, D. - STRAUCH, G. - JUERGENSEN, H. - GUILLON, H. - JIMENEZ, C. Platinum, ruthenium and ruthenium dioxide electrodes deposited by metal organic chemical vapour deposition for oxide applications. In Integrated Ferroelectrics, 2002, vol. 44, p. 135-139. (2002 - Current Contents).
Citácie:
1. [1.2] Prakash, J., Tripathi, B.M., Ghosh, S.K.: In Intelligent Coatings for Corrosion Control Eds. Tiwari, A., Rawlins, J.W., Hihara, L.H. ISBN: 978-012411534-7 Elsevier Inc. 2015 P. 93-134, SCOPUS
- ADCA12 BELOGOLOVSKII, M. - GRAJCAR, M. - KÚŠ, P. - BEŇAČKA, Štefan - SEIDEL, P. - PLECENIK, Andrej. Phase-coherent charge transport in superconducting heterocontacts. In Physical Review B, 1999, vol. 59, p. 9617-9626. (2.842 - IF1998). (1999 - Current Contents).
Citácie:
1. [1.2] Boylo, I.V. Metallofizika i Noveishie Tekhnologii 37 (2015), pp. 723-730, SCOPUS
- ADCA13 BERNÁT, J. - GREGUŠOVÁ, Dagmar - HEIDELBERG, G. - FOX, A. - MARSO, M. - LUTH, H. - KORDOŠ, Peter. SiO₂/AlGaIn/GaN MOSHFET with 0.7 μm gate-length and f_{max}/fT of 40/24 GHz. In Electronics Letters, 2005, vol. 41, p. 667-668. ISSN 0013-5194.
Citácie:
1. [1.1] LI, Y.R. - LIU, X.Z. - ZHU, J. - ZHANG, J.H. - QIAN, L.X. - ZHANG, W.L. In RARE METALS. JUN 2015, vol. 34, no. 6, p. 371-380., WOS
- ADCA14 BETKO, Július - MORVIC, Marian. Indication of mixed conductivity in III-V semiconductors using conductivity, Hall effect and magnetoresistance measurements. In Physica Status Solidi A, 2000, vol. 181, p. 169-175. (1.010 - IF1999). (2000 - Current Contents, SCOPUS). ISSN 0031-8965.
Citácie:
1. [4.1] Boháček, P., Zai'ko, B., Šagátová, A., Hybler, P., and Sekáčová, M.: 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
- ADCA15 BETKO, Július - MORVIC, Marian - NOVÁK, Jozef - FÖRSTER, A. - KORDOŠ, Peter. Hall mobility analysis in low-temperature-grown molecular beam epitaxial GaAs. In Applied Physics Letters, 1996, vol. 69, no., p. 2563. (1996 - Current Contents, SCOPUS). ISSN 0003-6951.
Citácie:
1. [1.1] FEKECS, A. - CHICOINE, M. - ILAHI, B. - SPRINGTHORPE, A.J. - SCHIETTEKATTE, F. - MORRIS, D. - CHARETTE, P.G. - ARES, R. In NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS. SEP 15 2015, vol. 359, p. 99-106., WOS
2. [1.1] JUUL, L. - MIKULICS, M. - MARSO, M. - PEREIRA, M.F. In TERAHERTZ EMITTERS, RECEIVERS, AND APPLICATIONS VI. 2015, vol. 9585., WOS
- ADCA16 BLAHO, Michal - GREGUŠOVÁ, Dagmar - JURKOVIČ, Michal - HAŠČÍK, Štefan - FEDOR, Ján - KORDOŠ, Peter - FRÖHLICH, Karol - BRUNNER, F. - CHO, E.-M. - HILT, O. - WÜRFL, H.-J. - KUZMÍK, Ján. Ni/Au-Al₂O₃ gate stack prepared by low-temperature ALD and lift-off for MOSHEMTs. In Microelectronic Engineering, 2013, vol. 112, p. 204-207. (1.224 - IF2012). (2013 - Current Contents). ISSN 0167-9317.
Citácie:
1. [1.1] ZHANG, Z.L. - YU, G.H. - ZHANG, X.D. - TAN, S.X. - WU, D.D. - FU, K. - HUANG, W. - CAI, Y. - ZHANG, B.S. In ELECTRONICS LETTERS. JUL 23 2015, vol. 51, no. 15, p. 1201-1202., WOS
- ADCA17 BLAHO, Michal - GREGUŠOVÁ, Dagmar - HAŠČÍK, Štefan - JURKOVIČ, Michal - ĽAPAJNA, 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.
Citácie:

1. [1.1] *YEH, P.C. - LIN, Y.W. - HUANG, Y.L. - HUNG, J.H. - LIN, B.R. - YANG, L. - WU, C.H. - WU, T.K. - WU, C.H. - PENG, L.H. In APPLIED PHYSICS EXPRESS. AUG 2015, vol. 8, no. 8, WOS*
- ADCA18 BRAILOVSKII, E.J. - MATVEEVA, L.A. - MELNIKOV, G.D. - MIKHAILOV, J.F. - SEMENOVA, S.N. - TKHORIK, J.A. - KHAZAN, L.S. - LAICHTER, V. - ČERVENÁK, Ján. SixGe1-xGaAs heterojunction impatt-diodes. In Crystal Research and Technology, 1986, vol. 21, p. 413-421. ISSN 0232-1300.
Citácie:
1. [1.1] *DEYASI, A. - BHATTACHARYYA, S. In COMPUTATIONAL ADVANCEMENT IN COMMUNICATION CIRCUITS AND SYSTEMS, ICCACCS 2014. 2015, vol. 335, p. 313-319., WOS*
- ADCA19 BRUNNER, Boris - KOVÁČ, Pavol - REISSNER, M. - HUŠEK, Imrich - MELIŠEK, Tibor - PARDO, Enric. Critical current density and pinning behaviour of mono-core MgB2 wires prepared by internal magnesium diffusion and in-situ powder-in-tube method. In Physica C. Superconductivity and its applications, 2014, vol. 505, p. 39-43. (1.110 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.
Citácie:
1. [1.1] *YE, S.J. - TAKIGAWA, H. - MATSUMOTO, A. - KUMAKURA, H. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. OCT 2015, vol. 25, no. 5., WOS*
- ADCA20 BYSTRITSKY, V.M. - KOBZEV, A.P. - KRYLOV, A.R. - PARZHITSKII, S.S. - PHILIPPOV, A.V. - DUDKIN, G.N. - NECHAEV, B.A. - PADALCO, V.N. - PENKOV, F.M. - TULEUSHEV, Yu.Zh. - FILIPOWICZ, M. - BYSTRITSKY, Vit. M. - GAŽI, Štefan - HURAN, Jozef. Study of the d(p, γ)³He reaction at ultralow energies using a zirconium deuteride target. In Nuclear Instruments and Methods in Physics Research A. Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, vol. 737, p. 248-252. (1.316 - IF2013). (2014 - Current Contents). ISSN 0168-9002.
Citácie:
1. [1.1] *PURCELL, J.E. - SHEU, C.G. In NUCLEAR DATA SHEETS. DEC 2015, vol. 130, p. 1-20., WOS*
- ADCA21 BYSTRITSKY, V.M. - BYSTRITSKII, Vit.M. - DUDKIN, G.N. - FILIPOWICZ, M. - GAŽI, Štefan - HURAN, Jozef - KOBZEV, A.P. - MESYATS, G.A. - NECHAEV, B.A. - PADALCO, V.N. - PARZHITSKII, S.S. - PENKOV, F.M. - PHILIPPOV, A.V. - KAMINSKII, V.L. - TULEUSHEV, Yu.Zh. - WOZNIAK, J. Measurement of astrophysical S factors and electron screening potentials for d(d,n)³He reaction in ZrD₂, TiD₂, and TaD_{0.5} targets in the ultralow energy region using plasma accelerators. In Nuclear Physics A, 2012, vol. 889, p. 93-104. (1.540 - IF2011). (2012 - Current Contents). ISSN 0375-9474.
Citácie:
1. [1.1] *COC, A. - PETITJEAN, P. - UZAN, J.P. - VANGIONI, E. - DESCOUVEMONT, P. - ILIADIS, C. - LONGLAND, R. In PHYSICAL REVIEW D. DEC 22 2015, vol. 92, no. 12., WOS*
2. [1.1] *TSYGANOV, E.N. - BAVIZHEV, M.D. - BURYAKOV, M.G. - DABAGOV, S.B. - GOLOVATYUK, V.M. - LOBASTOV, S.P. In NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS. JUL 15 2015, vol. 355, p. 333-339., WOS*
- ADCA22 BYSTRITSKY, V.M. - BYSTRITSKII, Vit.M. - DUDKIN, G.N. - FILIPOWICZ, M. - GAŽI, Štefan - HURAN, Jozef - KOBZEV, A.P. - MESYATS, G.A. - NECHAEV, B.A. - PADALCO, V.N. - PARZHITSKII, S.S. - PENKOV, F.M. - PHILIPPOV, A.V. - KAMINSKII, V.L. - TULEUSHEV, Yu.Zh. - WOZNIAK, J. Measurement of astrophysical S factors and electron screening potentials for d(d,n)³He reaction in ZrD₂, TiD₂, D₂D, and CD₂ targets in the ultralow energy region using plasma accelerators. In Physics of Atomic Nuclei, 2012, vol. 75, p. 53-62. (0.568 - IF2011). (2012 - Current Contents). ISSN 1063-7788.
Citácie:
1. [1.1] *TSYGANOV, E.N. - BAVIZHEV, M.D. - BURYAKOV, M.G. - DABAGOV, S.B. - GOLOVATYUK, V.M. - LOBASTOV, S.P. In NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS. JUL 15 2015, vol. 355, p. 333-339., WOS*
- ADCA23 CAMBEL, Vladimír - ŠOLTÝS, Ján. The role of surface-layer conductivity in local anodic oxidation by AFM tip. In Journal of Applied Physics, 2007, vol. 102, art. no. 074315. (2.316 - IF2006). (2007 - Current Contents, SCOPUS). ISSN 0021-8979.
Citácie:
1. [1.1] *FAUCETT, A.C. - MATIVETSKY, J.M. In CARBON. DEC 2015, vol. 95, p. 1069-1075., WOS*
2. [1.1] *HAN, C. - GWANGMIN, K. - AHN, S.J. - LEE, H. - CHUNG, C.C. In BULLETIN OF THE KOREAN CHEMICAL SOCIETY. MAR 2015, vol. 36, no. 3, p. 1024-1031., WOS*
- ADCA24 CAMBEL, Vladimír - KARAPETROV, Goran. Control of vortex chirality and polarity in magnetic

nanodots with broken rotational symmetry. In *Physical Review B*, 2011, vol. 84, 014424. (3.774 - IF2010). (2011 - Current Contents, WOS, SCOPUS). ISSN 1550-235X.

Citácie:

1. [1.1] PRAMANIK, Tanmoy - ROY, Urmimala - REGISTER, Leonard F. - BANERJEE, Sanjay K. In *IEEE TRANSACTIONS ON NANOTECHNOLOGY*. SEP 2015, vol. 14, no. 5, p. 883-888., WOS

2. [1.1] STEBLIY, Maxim E. - KOLESNIKOV, Alexander G. - OGNEV, Alexey V. - SAMARDAK, Alexander S. - CHEBOTKEVICH, Ludmila A. In *BEILSTEIN JOURNAL OF NANOTECHNOLOGY*. MAR 10 2015, vol. 6, p. 697-703., WOS

3. [1.1] STEBLIY, Maxim E. - OGNEV, Alexey V. - SAMARDAK, Alexander S. - KOLESNIKOV, Alexander G. - CHEBOTKEVICH, Ludmila A. - HAN, Xiufeng. In *JOURNAL OF APPLIED PHYSICS*. MAY 7 2015, vol. 117, no. 17., WOS

4. [1.1] XU, Zhan - XU, Feng. In *IEEE TRANSACTIONS ON MAGNETICS*. NOV 2015, vol. 51, no. 11., WOS

ADCA25 CAMBEL, Vladimír - MARTAUS, Jozef - ŠOLTÝS, Ján - KÚDELA, Róbert - GREGUŠOVÁ, Dagmar. AFM nanooxidation process – technology perspective for mesoscopic structures. In *Surface Science*, 2007, vol. 601, p. 2717-2723.

Citácie:

1. [1.1] HAN, C. - GWANGMIN, K. - AHN, S.J. - LEE, H. - CHUNG, C.C. In *BULLETIN OF THE KOREAN CHEMICAL SOCIETY*. MAR 2015, vol. 36, no. 3, p. 1024-1031., WOS

ADCA26 CESNAK, Ladislav - MELIŠEK, Tibor - KOVÁČ, Pavol - HUŠEK, Imrich. Magnetic field hysteresis of critical currents in Bi(2223)/Ag tapes and the way to overcome it. In *Cryogenics*, 1997, vol. 37, p. 823. (0.486 - IF1996). (1997 - Current Contents, WOS, SCOPUS). ISSN 0011-2275.

Citácie:

1. [1.2] Wesche, R.: *Physical Properties of High-Temperature Superconductors*. Wiley & Sons, Ltd: 2015. ISBN: 978-9971-5-0683-4., SCOPUS

ADCA27 CESNAK, Ladislav - KOKAVEC, Ján. Magnetic field stability of superconducting magnets. In *Cryogenics*, 1977, vol. 17, p. 107. ISSN 0011-2275.

Citácie:

1. [1.1] RONG, C.C. - BARNES, P.N. - LEVIN, G.A. - MILLER, J.D. - SANTOSUSSO, D.J. - FITZPATRICK, B.K. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. JUN 2015, vol. 25, no. 3., WOS

ADCA28 ČIČEK, Özlem - GÖMÖRY, Fedor - GENCER, A. Transport AC loss measurements and simulations in Bi-2223/Ag tape with Ni cover at the edges. In *Journal of Superconductivity and Novel Magnetism*, 2011, vol. 24, p. 391-394. (1.014 - IF2010). (2011 - Current Contents). ISSN 1557-1939.

Citácie:

1. [1.1] TA, W.R. - LI, Y.X. - GAO, Y.W. In *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM*. SEP 2015, vol. 28, no. 9, p. 2683-2695., WOS

ADCA29 ČIČO, Karol - HUŠEKOVÁ, Kristína - ĽAPAJNA, Milan - GREGUŠOVÁ, Dagmar - STOKLAS, Roman - KUZMÍK, Ján - CARLIN, J.-F. - GRANDJEAN, N. - POGANY, D. - FRÖHLICH, Karol. Electrical properties of InAlN/GaN high electron mobility transistor with Al₂O₃, ZrO₂, and GdScO₃ gate dielectrics. In *Journal of Vacuum Science and Technology B*, 2011, vol. 29, 01A808. (1.268 - IF2010). (2011 - Current Contents). ISSN 1071-1023.

Citácie:

1. [1.1] FEIJOO, P.C. - PAMPILLON, M.A. - ANDRES, E.S. - FIERRO, J.L.G. In *THIN SOLID FILMS*. OCT 30 2015, vol. 593, p. 62-66., WOS

2. [1.1] FREEDSMAN, J.J. - WATANABE, A. - URAYAMA, Y. - EGAWA, T. In *APPLIED PHYSICS LETTERS*. SEP 7 2015, vol. 107, no. 10., WOS

ADCA30 ČIČO, Karol - GREGUŠOVÁ, Dagmar - KUZMÍK, Ján - JURKOVIČ, Michal - ALEXEWICZ, A. - DI FORTE POISSON, M.A. - POGANY, D. - STRASSER, G. - DELAGE, S. - FRÖHLICH, Karol. Influence of processing and annealing steps on electrical properties of InAlN/GaN high electron mobility transistor with Al₂O₃ gate insulation and passivation. In *Solid-State Electronics*, 2012, vol. 67, p. 74-78. (1.397 - IF2011). (2012 - Current Contents). ISSN 0038-1101.

Citácie:

1. [1.1] SINGH, S.P. - LIU, Y. - NGOO, Y.J. - KYAW, L.M. - BERA, M.K. - DOLMANAN, S.B. - TRIPATHY, S. - CHOR, E.F. In *JOURNAL OF PHYSICS D-APPLIED PHYSICS*. SEP 16 2015, vol. 48, no. 36., WOS

ADCA31 DANILEWSKY, A. - WITTGE, J. - CRÖLL, A. - ALLEN, David - MCNALLY, P. - VAGOVIČ, Patrik - DOS SANTOS ROLO, T. - LI, Z.J. - BAUMBACH, T. - GOROSTEGUI-COLINAS, E. - GARAGORRI, J. - ELIZELDE, M.R. - FOSSATI, M.C. - BOWEN, D.K. - TANNER, B.K. Dislocation dynamics and slip band formation in silicon: In-situ study by X-ray diffraction imaging. In *Journal of Crystal Growth*, 2011, vol. 318, p. 1157-1163. (1.746 - IF2010). (2011 - Current Contents, WOS, SCOPUS). ISSN 0022-0248.

Citácie:

1. [1.1] REIMANN, C. - FRIEDRICH, J. - MEISSNER, E. - ORIWOL, D. - SYLLA, L. In *ACTA MATERIALIA. JUL 2015, vol. 93, p. 129-137., WOS*
- ADCA32 DANILEWSKY, A. - WITTGE, J. - HESS, A. - CRÖLL, A. - ALLEN, David - MCNALLY, P. - VAGOVIČ, Patrik - CECILIA, A. - LI, Z.J. - GOROSTEGUI-COLINAS, E. - ELIZELDE, M.R. Dislocation generation related to micro-cracks in Si wafers: High temperature in situ study with white beam X-ray topography. In *Nuclear Instruments and Methods in Physical Research B*, 2010, vol. 268, p. 399-402. (1.156 - IF2009). (2010 - Current Contents). ISSN 0168-583X.
Citácie:
1. [1.1] REIMANN, C. - FRIEDRICH, J. - MEISSNER, E. - ORIWOL, D. - SYLLA, L. In *ACTA MATERIALIA. JUL 2015, vol. 93, p. 129-137., WOS*
- ADCA33 DEMENČÍK, Eduard - UŠÁK, Pavol - POLÁK, Milan. Hall probe based system for study of AC transport current distribution in YBCO coated conductors at frequencies up to 700Hz. In *IEEE Transactions on Applied Superconductivity*, 2007, vol. 17, p. 3175-3178. (0.717 - IF2006). (2007 - Current Contents, WOS, SCOPUS).
Citácie:
1. [1.1] XU, C.D. - CHENG, K.W.E. - YE, Y.M. In *JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS. DEC 2015, vol. 24, no. 10., WOS*
- ADCA34 DERIAN, René - GENDIAR, Andrej - NISHINO, T. Modulation of local magnetization in two-dimensional axial-next-nearest-neighbor model. In *Journal of Physical Society of Japan*, 2006, vol. 75, p. 114001, also condmat 0605411.
Citácie:
1. [1.1] LANGARI, A. - MOHAMMAD-AGHAEI, A. - HAGHSHEENAS, R. In *PHYSICAL REVIEW B. JAN 15 2015, vol. 91, no. 2., WOS*
- ADCA35 DHALLÉ, M. - VAN WEEREN, H. - WESSEL, S. - DEN OUDEN, A. - TEN KATE, H.H. - HUŠEK, Imrich - KOVÁČ, Pavol - SCHLACHTER, S. - GOLDACKER, W. Scaling the reversible strain response of MgB₂ conductors. In *Superconductor Science and Technology*, 2005, vol. 18, p. S253-S260. (1.556 - IF2004). (2005 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
Citácie:
1. [1.1] PASQUET, R. - BERRIAUD, C. - FOREST, F. - HILAIRE, C. - JUSTER, F.P. - PORHIEL, A. - SCHILD, T. - SCOLA, L. - TALEB, A. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS*
- ADCA36 DOBROČKA, Edmund - OSVALD, Jozef. Influence of barrier height distribution on the parameters of Schottky diodes. In *Applied Physics Letters*, 1994, vol. 65, p. 575.
Citácie:
1. [1.1] GUZELDIR, B. - SAGLAM, M. - ATES, A. - TURUT, A. In *JOURNAL OF ALLOYS AND COMPOUNDS. APR 5 2015, vol. 627, p. 200-205., WOS*
2. [1.1] HIROSE, S. - OKUSHI, H. - UEDA, S. - YOSHIKAWA, H. - ADACHI, Y. - ANDO, A. - OHSAWA, T. - HANEDA, H. - OHASHI, N. In *APPLIED PHYSICS LETTERS. MAY 11 2015, vol. 106, no. 19., WOS*
3. [1.1] KAVASOGLU, N. - KAVASOGLU, A.S. - METIN, B. In *MATERIALS RESEARCH BULLETIN. OCT 2015, vol. 70, p. 804-808., WOS*
4. [1.1] LATRECHE, A. - OUENNOUGH, Z. In *INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS. MAR-APR 2015, vol. 28, no. 2, p. 231-238., WOS*
5. [1.1] OCAYA, R.O. - DERE, A. - TUNCER, H. - AL-GHAMDI, A.A. - SARI, D.C. - YAKUPHANOGLU, F. In *SYNTHETIC METALS. NOV 2015, vol. 209, p. 164-172., WOS*
- ADCA37 DONOVAL, D. - CHVÁLA, A. - ŠRAMATÝ, R. - KOVÁČ, Jaroslav - CARLIN, J.-F. - GRANDJEAN, N. - POZZOVIVO, G. - KUZMÍK, Ján - POGANY, D. - STRASSER, G. - KORDOŠ, Peter. Current transport and barrier height evaluation in Ni/InAlN/GaN Schottky diodes. In *Applied Physics Letters*, 2010, vol. 96, 223501. (3.554 - IF2009). (2010 - Current Contents, SCOPUS). ISSN 0003-6951.
Citácie:
1. [1.1] GEUM, D.M. - SHIN, S.H. - HONG, S.M. - JANG, J.H. In *IEEE ELECTRON DEVICE LETTERS. APR 2015, vol. 36, no. 4, p. 306-308., WOS*
2. [1.1] MAHALA, P. - BEHURA, S.K. - DHANAVANTRI, C. - RAY, A. - JANI, O. In *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING. MAR 2015, vol. 118, no. 4, p. 1459-1468., WOS*
3. [1.1] REN, J. - YAN, D.W. - YANG, G.F. - WANG, F.X. - XIAO, S.Q. - GU, X.F. In *JOURNAL OF APPLIED PHYSICS. APR 21 2015, vol. 117, no. 15., WOS*
- ADCA38 DONOVAL, D. - FLOROVIČ, M. - GREGUŠOVÁ, Dagmar - KOVÁČ, Jaroslav - KORDOŠ, Peter. High temperature performance of AlGaIn/GaN HFETs and MOSHFETs. In *Microelectronics reliability*, 2008, vol. 48, p. 1669-1672. (1.010 - IF2007). (2008 - Current Contents). ISSN 0026-2714.

- Citácie:
 1. [1.1] LEE, C.S. - HSU, W.C. - CHOU, B.Y. - LIU, H.Y. - YANG, C.L. - SUN, W.C. - WEI, S.Y. - YU, S.M. - WU, C.L. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. MAY 2015, vol. 62, no. 5, p. 1460-1466., WOS
- ADCA39 DUBORDIEU, C. - ROSINA, Milan - AUDIER, M. - WEISS, F. - SENATEUR, J.P. - DOORYHEE, E. - HODEAU, J.L. Application of pulsed-liquid MOCVD to the growth of ultrathin epitaxial oxides for magnetic heterostructures. In *Thin Solid Films*, 2001, vol. 400, p. 81-85.
 Citácie:
 1. [1.1] CATALANO, M.R. - CUCINOTTA, G. - SCHILIRO, E. - MANNINI, M. - CANESCHI, A. - LO NIGRO, R. - SMECCA, E. - CONDORELLI, G.G. - MALANDRINO, G. In *CHEMISTRYOPEN*. AUG 2015, vol. 4, no. 4, p. 523-532., WOS
- ADCA40 ELIÁŠ, Peter - KOSTIČ, Ivan - ŠOLTÝS, Ján - HASENÖHRL, Stanislav. Wet-etch bulk micromachining of (100) InP substrates. In *Journal of Micromechanics and Microengineering*, 2004, vol. 14, p. 1205–1214. ISSN 0960-1317.
 Citácie:
 1. [1.1] KIM, Seung Hyun - MOHSENI, Parsian K. - SONG, Yi - ISHIHARA, Tatsumi - LI, Xiuling. Inverse Metal-Assisted Chemical Etching Produces Smooth High Aspect Ratio InP Nanostructures. In *NANO LETTERS*. ISSN 1530-6984, 2015, vol. 15, no. 1, pp. 641-648., WOS
 2. [3.2] SARAILOU, E. True Linearized Intensity Modulation for photonic analog to digital conversion using an injection-locked mode-locked laser. PhD Thesis, University of Central Florida Orlando. 2015, 139 p., Google Scholar
 3. [9] KIM, S.H. Inverse metal-assisted chemical etching of indium phosphide with sub-20 nm scalability. Master's Thesis, University of Illinois at Urbana-Champaign. 2014, 34 p., Google Scholar
- ADCA41 ELIÁŠ, Peter - ŠTRICHOVANEC, Pavol - KOSTIČ, Ivan - NOVÁK, Jozef. Conformal, planarizing and bridging AZ5214-E layers deposited by a 'draping' technique on non-planar III-V substrates. In *Journal of Micromechanics and Microengineering*, 2006, vol. 16, p. 2608–2617. ISSN 0960-1317.
 Citácie:
 1. [1.1] SKRINIAROVA, J. - ANDOK, R. - PUDIS, D. - BENCUROVA, A. - NEMEC, P. - SUSLIK, L. Standard AZ 5214E photoresist in laser interference and EBDW lithographies. In *VACUUM*. ISSN 0042-207X, 2015, vol. 111, no., pp. 5., WOS
- ADCA42 ELIÁŠ, Peter - GREGUŠOVÁ, Dagmar - MARTAUŠ, Jozef - KOSTIČ, Ivan. Conformal AZ5214-E resist deposition on patterned (1 0 0) InP substrates. In *Journal of Micromechanics and Microengineering*, 2006, vol. 16, p. 191–197. ISSN 0960-1317.
 Citácie:
 1. [1.1] SKRINIAROVA, J. - ANDOK, R. - PUDIS, D. - BENCUROVA, A. - NEMEC, P. - SUSLIK, L. Standard AZ 5214E photoresist in laser interference and EBDW lithographies. In *VACUUM*. ISSN 0042-207X, 2015, vol. 111, no., pp. 5-8., WOS
 2. [4.1] SEČIANSKA, K. - ŠOLTÝS, J. - TÓBIK, J. - DÉRER, J. - CAMBEL, V. Cantilever sensor for study of magnetic microstructures. 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. 189
- ADCA43 FABBRICATORE, P. - FARINON, S. - GÖMÖRY, Fedor - INNOCENTI, S. Ac losses in multifilamentary high-Tc tapes due to a perpendicular ac magnetic field. In *Superconductor Science and Technology*, 2000, vol. 13, p. 1327-1337. (1.728 - IF1999). (2000 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
 Citácie:
 1. [1.1] MAIEVSKYI, E. - CISZEK, M. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. JUN 2015, vol. 25, no. 3., WOS
- ADCA44 FARINON, S. - FABBRICATORE, P. - GÖMÖRY, Fedor - GRECO, M. - SEILER, Eugen. Modeling of current density distribution in critical state by commercial FE codes. In *IEEE Transactions on Applied Superconductivity*, vol. 15, 2005, p. 2867-2870.
 Citácie:
 1. [1.2] Cicek, A., Inanir, F. *Progress in Exergy, Energy, and the Environment* Eds. Ibrahim Dincer, Adnan Midilli, Haydar Kucuk. Springer 2014. ISBN: 978-3-319-04680-8. P. 453-458, SCOPUS
- ADCA45 FARINON, S. - FABBRICATORE, P. - GÖMÖRY, Fedor. Critical state and magnetization loss in multifilamentary superconducting wire solved through the commercial finite element code ANSYS. In *Superconductor Science and Technology*, 2010, vol. 23, 115004. (2.694 - IF2009). (2010 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
 Citácie:
 1. [1.1] OHARA, H. - SUN, J. - HAMABE, M. - KAWAHARA, T. - YAMAGUCHI, S. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. JUN 2015, vol. 25, no. 3., WOS

2. [1.2] Freda, R., Chiarelli, S., Corato, V., Della Corte, A., De Marzi, G., Di Zenobio, A., Formichetti, A., Muzzi, L., Rufoloni, A., Viola, R. *IEEE Transactions on Applied Superconductivity* 25 (2015), 6936901, SCOPUS
3. [1.2] Krüger, P. *Optimisation of Hysteretic Losses in High-Temperature Superconducting Wires. PhD Thesis Karlsruhe: KIT Scientific Publishing, 2014. ISBN 978 3 73150 185 5 pp. 1-218, SCOPUS*
- ADCA46 FENDRYCH, F. - KRAUS, L. - CHAYKA, O. - LOBOTKA, Peter - VÁVRA, Ivo - TOUS, J. - STUDNICKA, V. - FRAIT, Z. Preparation of nanostructured magnetic films by the plasma jet techniques. In Monatshefte für Chemie. - Wien : Springer, 2002, vol. 133, p. 773-784. ISSN 0026-9247.
Citácie:
1. [1.1] GAWANDE, Manoj B. - MONGA, Yukti - ZBORIL, Radek - SHARMA, R. K. In *COORDINATION CHEMISTRY REVIEWS. APR 1 2015*, vol. 288, p. 118-143., WOS
2. [1.1] SHARMA, Navneet - OJHA, Himanshu - BHARADWAJ, Ambika - PATHAK, Dharam Pal - SHARMA, Rakesh Kumar. In *RSC ADVANCES. 2015*, vol. 5, no. 66, p. 53381-53403., WOS
- ADCA47 FERRARI, C. - BUFFAGNI, E. - BONNINI, E. - KORYTÁR, Dušan. High diffraction efficiency in crystal curved by surface damage. In *Journal of Applied Crystallography*, 2013, vol. 46, p. 1576-1581. (3.343 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0021-8898.
Citácie:
1. [1.1] BELLUCCI, V. - CAMATTARI, R. - GUIDI, V. - MAZZOLARI, A. - PATERNO, G. - MATTEI, G. - SCIAN, C. - LANZONI, L. In *APPLIED PHYSICS LETTERS. AUG 10 2015*, vol. 107, no. 6., WOS
2. [1.1] CAMATTARI, R. - GUIDI, V. - BELLUCCI, V. - MAZZOLARI, A. In *JOURNAL OF APPLIED CRYSTALLOGRAPHY. AUG 2015*, vol. 48, 4, p. 977-989., WOS
3. [1.1] CAMATTARI, R. - LANZONI, L. - BELLUCCI, V. - GUIDI, V. In *JOURNAL OF APPLIED CRYSTALLOGRAPHY. JUN 2015*, vol. 48, 3, p. 943-949., WOS
4. [1.1] MAZZOLARI, A. - CAMATTARI, R. - BELLUCCI, V. - PATERNO, G. - SCIAN, C. - MATTEI, G. - GUIDI, V. In *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS. JUL 15 2015*, vol. 355, p. 297-300., WOS
5. [1.1] PATERNO, G. - BELLUCCI, V. - CAMATTARI, R. - GUIDI, V. In *JOURNAL OF APPLIED CRYSTALLOGRAPHY. FEB 2015*, vol. 48, 1, p. 125-137., WOS
- ADCA48 FILO, J. - MIŠIČÁK - 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.
Citácie:
1. [1.1] JABALLAH, N. - CHEMLI, M. - FAVE, J.L. - MAJDOUB, M. In *OPTICAL MATERIALS. DEC 2015*, vol. 50, B, p. 144-153., WOS
2. [1.1] ZHAO, Y.G. - SNIECKUS, V. In *ORGANIC LETTERS. OCT 2 2015*, vol. 17, no. 19, p. 4674-4677., WOS
- ADCA49 FRÖHLICH, Karol. TiO₂-based structures for nanoscale memory applications : invited review. In *Materials science in semiconductor processing*, 2013, vol. 16, p. 1186-1195. (1.338 - IF2012). (2013 - Current Contents). ISSN 1369-8001.
Citácie:
1. [1.1] KNEBEL, S. - PESIC, M. - CHO, K. - CHANG, J. - LIM, H. - KOLOMIETS, N. - AFANAS'EV, V.V. - MUEHLE, U. - SCHROEDER, U. - MIKOLAJICK, T. In *JOURNAL OF APPLIED PHYSICS. JUN 14 2015*, vol. 117, no. 22., WOS
2. [1.1] PATIL, M.K. - SHAIKH, S. - GANESH, I. In *CURRENT NANOSCIENCE. 2015*, vol. 11, no. 3, p. 271-285., WOS
3. [1.1] ROGALA, M. - BIHLMAYER, G. - SPEIER, W. - KLUSEK, Z. - RODENBUCHER, C. - SZOT, K. In *ADVANCED FUNCTIONAL MATERIALS. OCT 2015*, vol. 25, no. 40, SI, p. 6382-6389., WOS
- ADCA50 FRÖHLICH, Karol - ĽAPAJNA, Milan - ROSOVÁ, Alica - DOBROČKA, Edmund - HUŠEKOVÁ, Kristína - AARIK, J. - AIDLA, A. Growth of high-dielectric-constant TiO₂ films in capacitors with RuO₂ electrodes. In *Electrochemical and Solid State Letters*, 2008, vol. 11, p. G19-G21. (2.271 - IF2007). ISSN 1099-0062.
Citácie:
1. [1.1] HAHN, H. - PECS, B. - KOVACS, A. - HEUKEN, M. - KALISCH, H. - VESCAN, A. In *JOURNAL OF APPLIED PHYSICS. JUN 7 2015*, vol. 117, no. 21., WOS
2. [1.1] HERNANDEZ-TORRES, M.E. - OJEDA-CARRERA, M.T. - SANCHEZ-CANTU, M. - SILVA-GONZALEZ, N.R. - GRACIA-JIMENEZ, J.M. In *CHEMICAL PAPERS. SEP 2014*, vol. 68,

- no. 9, p. 1257-1264., WOS
- ADCA51 FRÖHLICH, Karol - ŠOUC, Ján - MACHAJDÍK, Daniel - JERGEL, Matej - SNAUWAERT, J. - HELLEMANS, L. Surface quality of epitaxial CeO₂ thin films grown on sapphire by aerosol metal organic chemical vapour deposition. In Chemical Vapour Deposition, 1998, vol. 4, p. 216-220. (1.360 - IF1997). (1998 - Current Contents).
- Citácie:
1. [1.2] *Develos-Bagarinao, K.: In Oxide Thin Films, Multilayers, and Nanocomposites. Eds: P. Mele et al. Springer 2015 ISBN: 978-3-319-14477-1. P. 213-235, SCOPUS*
- ADCA52 FRÖHLICH, Karol - HUŠEKOVÁ, Kristína - MACHAJDÍK, Daniel - LUPTÁK, Roman - ĎAPAJNA, Milan - HOOKE, J.C. - ROOZEBOOM, F. - KOBZEV, A.P. - WIEMER, C. - FERRARI, C. - FANCIULLI, M. - ROSSEL, C. - CABRAL, C., Jr. Preparation of SrRuO₃ films for advanced CMOS metal gates. In Materials science in semiconductor processing, 2004, vol. 7, p. 265-269.
- Citácie:
1. [1.1] *PARK, J.Y. - YEO, S. - CHEON, T. - KIM, S.H. - KIM, M.K. - KIM, H. - HONG, T.E. - LEE, D.J. In JOURNAL OF ALLOYS AND COMPOUNDS. OCT 15 2014, vol. 610, p. 529-539., WOS*
- ADCA53 FRÖHLICH, Karol - LUPTÁK, Roman - DOBROČKA, Edmund - HUŠEKOVÁ, Kristína - ČIČO, Karol - ROSOVÁ, Alica - LUKOCIUS, M. - ABRUTIS, A. - PÍSEČNÝ, Pavol - ESPINOS, J.P. Characterization of rare earth oxides based MOSFET gate stacks prepared by metal-organic chemical vapour deposition. In Materials science in semiconductor processing, 2006, vol. 9, p.1065-1072. (2006 - Current Contents). ISSN 1369-8001.
- Citácie:
1. [1.1] *FAN, Xiaojiao - LIU, Hongxia - FEI, Chenxi. Effect of post-deposition annealing on the interfacial chemical bonding states and band alignment of atomic layer deposited neodymium oxide on silicon. In MATERIALS RESEARCH EXPRESS. ISSN 2053-1591, 2014, vol. 1, no. 4, pp., WOS*
2. [3.2] *DAR, G.N. Metal oxide nanostructures and their applications. PhD Thesis, University of Patras Greece. 2015, 154 p., Google Scholar*
3. [9] *CAPELLINO, E. Study and characterization of lanthanum oxide thin films grown by pulsed laser deposition. Master's Thesis, University of Illinois at Chicago. 2014, 113 p., Google Scholar*
- ADCA54 GENDIAR, Andrej - KRČMÁR, Roman - NISHINO, T. Spherical deformation for one-dimensional quantum systems. In Progress Theoretical Physics, 2009, vol. 122, p. 953-967. (1.661 - IF2008).
- Citácie:
1. [1.1] *OKUNISHI, K. - KATSURA, H. In JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL. NOV 6 2015, vol. 48, no. 44., WOS*
2. [1.1] *TADA, T. In MODERN PHYSICS LETTERS A. JUN 21 2015, vol. 30, no. 19., WOS*
- ADCA55 GENDIAR, Andrej - MAESHIMA, N. - NISHINO, T. Stable optimization of tensor product variational state. In Progress Theoretical Physics, 2003, vol. 110, p. 691-699.
- Citácie:
1. [1.1] *CHANGLANI, H.J. - ZHENG, H.H. - WAGNER, L.K. In JOURNAL OF CHEMICAL PHYSICS. SEP 14 2015, vol. 143, no. 10., WOS*
2. [1.1] *PHIEN, H.N. - BENGUA, J.A. - TUAN, H.D. - CORBOZ, P. - ORUS, R. In PHYSICAL REVIEW B. JUL 24 2015, vol. 92, no. 3., WOS*
3. [1.1] *PHIEN, H.N. - MCCULLOCH, I.P. - VIDAL, G. In PHYSICAL REVIEW B. MAR 25 2015, vol. 91, no. 11., WOS*
4. [1.1] *WARE, B. - KIMCHI, I. - PARAMESWARAN, S.A. - BAUER, B. In PHYSICAL REVIEW B. NOV 4 2015, vol. 92, no. 19., WOS*
- ADCA56 GENDIAR, Andrej - KRČMÁR, Roman - NISHINO, T. Spherical deformation for one-dimensional quantum systems (vol 122, pg 953, 2009) : errata. In Progress Theoretical Physics, 2010, vol. 123, p. 393.
- Citácie:
1. [1.1] *TADA, T. In MODERN PHYSICS LETTERS A. JUN 21 2015, vol. 30, no. 19., WOS*
2. [1.1] *YONAGA, K. - SHIBATA, N. In JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN. SEP 15 2015, vol. 84, no. 9., WOS*
- ADCA57 GENDIAR, Andrej - DANIŠKA, Michal - LEE, Y. - NISHINO, T. Suppression of finite-size effects in one-dimensional correlated systems. In Physical Review A, 2011, vol. 83, no. 5, 052118. (2.861 - IF2010). (2011 - Current Contents). ISSN 1050-2947.
- Citácie:
1. [1.1] *TADA, Tsukasa. Sine-square deformation and its relevance to string theory. In MODERN PHYSICS LETTERS A. ISSN 0217-7323, 2015, vol. 30, no. 19, 1550092., WOS*
2. [1.1] *YONAGA, Kouki - SHIBATA, Naokazu. Ground State Phase Diagram of Twisted Three-Leg Spin Tube in Magnetic Field. In JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN.*

- ISSN 0031-9015, 2015, vol. 84, no. 9, 094706., WOS*
- ADCA58 GENDIAR, Andrej - NISHINO, T. Phase diagram of the 3D Axial-Next-Nearest-Neighbor Ising model. In *Physical Review B*. - New York : APS Publishing, 2005, vol. 71, p. 024404-10. (3.075 - IF2004). (2005 - Current Contents). ISSN 1550-235X.
Citácie:
1. [1.1] *GARCIA-SAEZ, A. - WEI, T.C. In PHYSICAL REVIEW B. SEP 17 2015, vol. 92, no. 12., WOS*
- ADCA59 GILABERT, A. - PLECENIK, Andrej - FRÖHLICH, Karol - GAŽI, Štefan - PRIPKO, Mojmir - MOZOLOVÁ, Želmíra - MACHAJDÍK, Daniel - BENÁČKA, Štefan - MEDICI, M.G. - GRAJCAR, M. - KUŠ, P. Photoinduced insulator-metal transition in La_{0.81}MnO₃/Al₂O₃/Nb tunnel junctions. In *Applied Physics Letters*, 2001, vol. 78, p. 1712-1714. (3.906 - IF2000). ISSN 0003-6951.
Citácie:
1. [1.2] *Hu, L., Sun, Y.P. In Manganite-Based Thin Films and Heterojunctions. Eds. Sheng, Z., Hu, L., Sun, Y. Nova Science Publishers, Inc. 2015. ISBN: 978-163482475-0. P. 105-151., SCOPUS*
- ADCA60 GLOWACKI, B.A. - MAJOROŠ, Milan - VICKERS, M. - EVETTS, J.E. - SHI, Y. - MCDUGALL, I. Superconductivity of powder-in-tube MgB₂ wires. In *Superconductor Science and Technology*, 2001, vol. 14, p. 193-199. (1.250 - IF2000). (2001 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
Citácie:
1. [1.1] *MAEDA, M. - UCHIYAMA, D. - AL HOSSAIN, M.S. - MA, Z.Q. - SHAHABUDDIN, M. - KIM, J.H. In JOURNAL OF ALLOYS AND COMPOUNDS. JUL 5 2015, vol. 636, p. 29-33., WOS*
2. [1.1] *PATEL, D. - AL HOSSAIN, M.S. - SEE, K.W. - XU, X. - BARUA, S. - MA, Z.Q. - CHOI, S. - TOMSIC, M. - KIM, J.H. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. JUN 2015, vol. 28, no. 6., WOS*
3. [1.1] *SHIMADA, Y. - HATA, S. - IKEDA, K. - NAKASHIMA, H. - MATSUMURA, S. - TANAKA, H. - YAMAMOTO, A. - SHIMOYAMA, J. - KISHIO, K. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS*
4. [1.1] *YANG, Y. - LI, G. - SUSNER, M. - SUMPTION, M.D. - RINDFLEISCH, M. - TOMSIC, M. - COLLINGS, E.W. In PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS. DEC 15 2015, vol. 519, p. 118-123., WOS*
- ADCA61 GLOWACKI, B.A. - MAJOROŠ, Milan - RUTTER, N.A. - CAMPBELL, A.M. Superconducting-magnetic heterostructures as a new method of decreasing transport AC losses in multifilamentary and coated superconductors. In *Cryogenics*, 2001, vol. 41, no. 2, p. 103-109. (0.554 - IF2000). ISSN 0011-2275.
Citácie:
1. [1.1] *TAKACS, S. In CRYOGENICS. JAN 2015, vol. 65, p. 1-4., WOS*
- ADCA62 GOLDBACKER, W. - GRILLI, F. - PARDO, Enric - KARIO, A. - SCHLACHTER, S. - VOJENČIAK, Michal. Roebel cables from REBCO coated conductors: a one-century-old concept for the superconductivity of the future. In *Superconductor Science and Technology*, 2014, vol. 27, 093001. (2.796 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
Citácie:
1. [1.1] *HOPKINS, S.C. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. SEP 2015, vol. 28, no. 9., WOS*
2. [1.1] *VAN DER LAAN, D.C. - GOODRICH, L.F. - NOYES, P. - TROCIEWITZ, U.P. - GODEKE, A. - ABRAIMOV, D. - FRANCIS, A. - LARBALESTIER, D.C. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. DEC 2015, vol. 28, no. 12., WOS*
3. [1.1] *WULFF, A.C. - SOLOVYOV, M. - GOMORY, F. - ABRAHAMSEN, A.B. - MISHIN, O.V. - USOSKIN, A. - RUTT, A. - LUNDEMAN, J.H. - THYDEN, K. - HANSEN, J.B. - GRIVEL, J.C. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. JUL 2015, vol. 28, no. 7., WOS*
4. [1.2] *Bayer, C.M., Gade, P.V., Barth, C., Preuß, A., Jung, A., Weiß, K.P. Superconductor Science and Technology Volume 29, Issue 2, 16 December 2015, Article number 025007, SCOPUS*
5. [1.2] *Haro, E., Stenvall, A., Van Nugteren, J., Kirby, G. IEEE Transactions on Applied Superconductivity 25 (2015), 4701505, SCOPUS*
6. [1.2] *Jaroszyński, L., Janowski, T. Przegląd Elektrotechniczny 91 (2015), pp. 284-287, SCOPUS*
7. [1.2] *Pamidi, S., Kim, C.H., Graber, L. In: Rey, C.M. In Superconductors in the Power Grid: Materials and Applications 978-178242037-8 Elsevier 2015 pp. 225-260, SCOPUS*
- ADCA63 GÖMÖRY, Fedor - KLINČOK, Boris. Self-field critical current of a conductor with an elliptical cross-section. In *Superconductor Science and Technology*, 2006, vol. 19, p. 732-737. (1.896 - IF2005). (2006 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
Citácie:
1. [1.1] *BELGUERRAS, L. - MEZANI, S. - LUBIN, T. - LEVEQUE, J. - REZZOUG, A. In*

- SUPERCONDUCTOR SCIENCE & TECHNOLOGY. SEP 2015, vol. 28, no. 9., WOS*
 2. [1.1] XU, Z.H. - GRILLI, F. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. OCT 2015, vol. 28, no. 10., WOS*
 3. [1.1] ZERMENO, V. - SIROIS, F. - TAKAYASU, M. - VOJENČIAK, M. - KARIO, A. - GRILLI, F. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. AUG 2015, vol. 28, no. 8., WOS*
 4. [1.2] Krüger, P. *Optimisation of Hysteretic Losses in High-Temperature Superconducting Wires. PhD Thesis Karlsruhe: KIT Scientific Publishing, 2014. ISBN 978 3 73150 185 5 pp. 1-218, SCOPUS*
- ADCA64 GÖMÖRY, Fedor - ŠOUC, Ján - VOJENČIAK, Michal - SEILER, Eugen - KLINČOK, Boris - CEBALLOS, J.M. - PARDO, Enric - SANCHEZ, A. - NAVAU, C. - FARINON, S. - FABBRICATORE, P. Predicting AC loss in practical superconductors. In *Superconductor Science and Technology*, 2006, vol. 19, p. S60-S66. (1.896 - IF2005). (2006 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
 Citácie:
 1. [1.1] ZHANG, M. - YUAN, W.J. - KVIKOVIC, J. - PAMIDI, S. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. NOV 2015, vol. 28, no. 11., WOS*
 2. [1.1] ZHILICHEV, Y. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. AUG 2015, vol. 25, no. 4., WOS*
- ADCA65 GÖMÖRY, Fedor - ŠOUC, Ján - VOJENČIAK, Michal - ALAMGIR, A.K. - HAN, Z. - GU, Ch. Reduction of ac transport and magnetization loss of a high-Tc superconducting tape by placing soft ferromagnetic materials at the edges. In *Applied Physics Letters*, 2007, vol. 90, p. 092506. (3.977 - IF2006). (2007 - Current Contents, SCOPUS). ISSN 0003-6951.
 Citácie:
 1. [1.2] Krüger, P. *Optimisation of Hysteretic Losses in High-Temperature Superconducting Wires. PhD Thesis Karlsruhe: KIT Scientific Publishing, 2014. ISBN 978 3 73150 185 5 pp. 1-218, SCOPUS*
- ADCA66 GÖMÖRY, Fedor - VOJENČIAK, Michal - PARDO, Enric - ŠOUC, Ján. Magnetic flux penetration and AC loss in a composite superconducting wire with ferromagnetic parts. In *Superconductor Science and Technology*, 2009, vol. 22, 034017. (1.847 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
 Citácie:
 1. [1.1] AINSLIE, M.D. - FUJISHIRO, H. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. MAY 2015, vol. 28, no. 5., WOS*
 2. [1.1] LAI, L.F. - GU, C. - QU, T.M. - ZHANG, M. - LI, Y.Q. - LIU, R. - COOMBS, T. - HAN, Z.H. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS*
 3. [1.1] YILDIZ, S. - INANIR, F. - CICEK, A. In *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM. NOV 2015, vol. 28, no. 11, p. 3205-3209., WOS*
- ADCA67 GÖMÖRY, Fedor - ŠOUC, Ján - SEILER, Eugen - KLINČOK, Boris - VOJENČIAK, Michal - ALAMGIR, A.K. - HAN, Z. - GU, Ch. Performance improvement of superconducting tapes due to ferromagnetic cover on edges. In *IEEE Transactions on Applied Superconductivity*, 2007, vol. 17, p. 3083-3086. (0.717 - IF2006). (2007 - Current Contents, WOS, SCOPUS).
 Citácie:
 1. [1.1] OHARA, H. - SUN, J. - HAMABE, M. - KAWAHARA, T. - YAMAGUCHI, S. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS*
 2. [1.1] YILDIZ, S. - INANIR, F. - CICEK, A. In *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM. NOV 2015, vol. 28, no. 11, p. 3205-3209., WOS*
- ADCA68 GÖMÖRY, Fedor - LOBOTKA, Peter. Determination of shielding current density in bulk cylindrical samples of high Tc superconductors from AC susceptibility measurement. In *Solid State Communications*, 1988, vol. 66, p. 645-649.
 Citácie:
 1. [1.1] ARLINA, A. - HALIM, S.A. - KECHIK, M.M.A. - CHEN, S.K. In *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM. JUL 2015, vol. 28, no. 7, p. 1953-1958., WOS*
- ADCA69 GÖMÖRY, Fedor. Low frequency magnetic measurements on high-Tc superconducting materials. In *Thermochimica Acta*, 1991, vol. 174, p. 299-320.
 Citácie:
 1. [1.1] MANCUSI, D. - POLICHETTI, M. - CIMBERLE, M.R. - PACE, S. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. SEP 2015, vol. 28, no. 9., WOS*
- ADCA70 GÖMÖRY, Fedor - TAKÁCS, Silvester - HOLUBAR, T. - HILSCHER, G. Magnetic irreversibility in superconductors characterised by shielding current density. In *Physica C*, 1994, vol. 235-240, p. 2753.
 Citácie:

1. [1.1] NIKOLO, M. - SHI, X. - CHOI, E.S. - JIANG, J. - WEISS, J.D. - HELLSTROM, E.E. In *JOURNAL OF LOW TEMPERATURE PHYSICS*. FEB 2015, vol. 178, no. 3-4, p. 188-199., WOS
2. [1.1] NIKOLO, M. - SHI, X. - CHOI, E.S. - JIANG, J. - WEISS, J.D. - HELLSTROM, E.E. In *JOURNAL OF LOW TEMPERATURE PHYSICS*. MAR 2015, vol. 178, no. 5-6, p. 345-354., WOS
3. [1.2] Nikolo, M., Shi, X., Choi, E.S., Jiang, J., Weiss, J.D., Hellstrom, E.E. *Physics Procedia Vol. 67, 2015, pp 939-944, SCOPUS*
- ADCA71 GÖMÖRY, Fedor - GHERARDI, L. Transport AC losses in round superconducting wire consisting of two concentric shells with different critical current density. In *Physica C*, 1997, vol. 280, p. 151. (1.723 - IF1996). (1997 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.
Citácie:
1. [1.1] LIU, Q.F. - LIU, L.L. - FENG, W.J. In *ACTA MECHANICA SOLIDA SINICA*. FEB 2015, vol. 28, no. 1, p. 23-32., WOS
- ADCA72 GÖMÖRY, Fedor. Characterization of high-temperature superconductors by AC susceptibility measurement : Topical Review. In *Superconductor Science and Technology*, 1997, vol. 10, p. 523-542. (1.447 - IF1996). (1997 - Current Contents, SCOPUS). ISSN 0953-2048.
Citácie:
1. [1.1] BUCHKOV, K. - POLICHETTI, M. - NENKOV, K. - NAZAROVA, E. - MANCUSI, D. - BALCHEV, N. - KOVACHEVA, D. - ZAHARIEV, A. - PACE, S. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. MAR 2015, vol. 28, no. 3., WOS
2. [1.1] JABBAR, A. - MUMTAZ, M. - NADEEM, K. In *EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS*. MAR 2015, vol. 69, no. 3., WOS
3. [1.1] JABBAR, A. - QASIM, I. - KHAN, K.M. - AU, Z. - NADEEM, K. - MUMTAZ, M. In *JOURNAL OF ALLOYS AND COMPOUNDS*. JAN 5 2015, vol. 618, p. 110-114., WOS
4. [1.1] MANCUSI, D. - POLICHETTI, M. - CIMBERLE, M.R. - PACE, S. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. SEP 2015, vol. 28, no. 9., WOS
5. [1.1] MIU, L. - MELE, P. - IVAN, I. - IONESCU, A.M. - CRISAN, A. - BADICA, P. - MIU, D. In *SIZE EFFECTS IN NANOSTRUCTURES: BASICS AND APPLICATIONS*. 2014, vol. 205, p. 293-317., WOS
6. [1.1] MIU, L. - MELE, P. - IVAN, I. - IONESCU, A.M. - MIU, D. In *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM*. FEB 2015, vol. 28, no. 2, p. 361-365., WOS
7. [1.1] QASIM, I. - WAQEE-UR-REHMAN, M. - MUMTAZ, M. - HUSSAIN, G. - NADEEM, K. - KHAN, N.A. In *JOURNAL OF ALLOYS AND COMPOUNDS*. NOV 15 2015, vol. 649, p. 320-326., WOS
8. [1.1] TANAKA, Y. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. MAR 2015, vol. 28, no. 3., WOS
9. [1.1] VIA, G. - DEL-VALLE, N. - SANCHEZ, A. - NAVAU, C. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. JAN 2015, vol. 28, no. 1., WOS
10. [1.1] ZHU, J.F. - JIANG, W. - LIU, Y.C. - YIN, G. - YUAN, J. - HE, S.L. - MA, Y.G. In *NATURE COMMUNICATIONS*. NOV 2015, vol. 6., WOS
- ADCA73 GÖMÖRY, Fedor - ŠOUČ, Ján - VOJENČIAK, Michal. AC transport loss of coated conductors in anti-parallel arrangement. In *IEEE Transactions on Applied Superconductivity*, 2011, vol. 21, p. 3307-3310. (1.035 - IF2010). (2011 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.
Citácie:
1. [1.1] TIXADOR, P. - BADEL, A. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. NOV 15 2015, vol. 518, p. 130-133., WOS
- ADCA74 GÖMÖRY, Fedor - SOLOVYOV, Mykola - ŠOUČ, Ján - NAVAU, C. - CAMPS, J.P. - SANCHEZ, A. Experimental realization of a magnetic cloak. In *Science*, 2012, vol. 335, p. 1466-1468. (31.201 - IF2011). (2012 - Current Contents). ISSN 0036-8075.
Citácie:
1. [1.1] BAI, G.D. - ZHANG, Z. - YANG, F. - MEI, Z.L. In *JOURNAL OF PHYSICS D-APPLIED PHYSICS*. AUG 19 2015, vol. 48, no. 32., WOS
2. [1.1] CHEN, T.H. - YANG, F. - MEI, Z.L. In *PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE*. AUG 2015, vol. 212, no. 8, p. 1746-1750., WOS
3. [1.1] CHENG, Q. - TANG, W.X. - MA, H.F. - JIANG, W.X. - BAO, D. In *2014 8TH EUROPEAN CONFERENCE ON ANTENNAS AND PROPAGATION (EUCAP)*. 2014, p. 276-277., WOS
4. [1.1] CHENG, Q.L. - WU, K.D. - SHI, Y.L. - WANG, H. - WANG, G.P. In *SCIENTIFIC REPORTS*. FEB 26 2015, vol. 5., WOS
5. [1.1] GENENKO, Y.A. - RAUH, H. - KURDI, S. In *JOURNAL OF APPLIED PHYSICS*. JUN 28 2015, vol. 117, no. 24., WOS
6. [1.1] GUENNEAU, S. - PETITEAU, D. - ZERRAD, M. - AMRA, C. - PUVIRAJESINGHE, T. In *AIP ADVANCES*. MAY 2015, vol. 5, no. 5., WOS
7. [1.1] HOGAN, K. - FAGNARD, J.F. - WERA, L. - VANDERHEYDEN, B. - VANDERBEMDEN,

- P. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. MAR 2015, vol. 28, no. 3., WOS
8. [1.1] JIANG, W.X. - LUO, C.Y. - GE, S. - QIU, C.W. - CUI, T.J. In *ADVANCED MATERIALS*. AUG 19 2015, vol. 27, no. 31, p. 4628-4633., WOS
9. [1.1] KADIC, M. - BUCKMANN, T. - SCHITTNY, R. - WEGENER, M. In *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES*. AUG 28 2015, vol. 373, no. 2049., WOS
10. [1.1] KROON, L. In *9TH INTERNATIONAL CONGRESS ON ADVANCED ELECTROMAGNETIC MATERIALS IN MICROWAVES AND OPTICS (METAMATERIALS 2015)*. 2015, p. 157-159., WOS
11. [1.1] KUMAR, N.D. - CLOSSET, R. - WERA, L. - CLOOTS, R. - VANDERBEMDEN, P. - VERTRUYEN, B. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. JAN 2015, vol. 28, no. 1., WOS
12. [1.1] LAN, C.W. - LI, B. - ZHOU, J. In *OPTICS EXPRESS*. SEP 21 2015, vol. 23, no. 19, p. 24475-24483., WOS
13. [1.1] LAN, C.W. - YANG, Y.P. - GENG, Z.X. - LI, B. - ZHOU, J. In *SCIENTIFIC REPORTS*. NOV 10 2015, vol. 5., WOS
14. [1.1] LEE, D.A. - VEDRAL, L.J. - SMITH, D.A. - MUSSELMAN, R.L. - PINCHUK, A.O. In *AIP ADVANCES*. APR 2015, vol. 5, no. 4., WOS
15. [1.1] MINE, A. - TSUCHIYA, Y. - MIYANO, S. - PYON, S. - TAMEGAI, T. - NAGASAWA, S. - HIDAKA, M. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. NOV 15 2015, vol. 518, p. 81-84., WOS
16. [1.1] NGUYEN, D.M. - XU, H.Y. - ZHANG, Y.M. - ZHANG, B.L. In *APPLIED PHYSICS LETTERS*. SEP 21 2015, vol. 107, no. 12., WOS
17. [1.1] RAZA, M. - LIU, Y.C. - MA, Y.G. In *JOURNAL OF APPLIED PHYSICS*. JAN 14 2015, vol. 117, no. 2., WOS
18. [1.1] SAVO, S. - ZHOU, Y. - CASTALDI, G. - MOCCIA, M. - GALDI, V. - RAMANATHAN, S. - SATO, Y. In *PHYSICAL REVIEW B*. APR 16 2015, vol. 91, no. 13., WOS
19. [1.1] SCHITTNY, R. - NIEMEYER, A. - KADIC, M. - BUCKMANN, T. - NABER, A. - WEGENER, M. In *OPTICS LETTERS*. SEP 15 2015, vol. 40, no. 18, p. 4202-4205., WOS
20. [1.1] SHCHELOKOVA, A.V. - MELCHAKOVA, I.V. - SLOBOZHANYUK, A.P. - YANKOVSKAYA, E.A. - SIMOVSKI, C.R. - BELOV, P.A. In *PHYSICS-USPEKHI*. 2015, vol. 58, no. 2, p. 167-190., WOS
21. [1.1] SUN, F. - HE, S.L. In *AIP ADVANCES*. SEP 2015, vol. 5, no. 9., WOS
22. [1.1] VALAGIANNOPOULOS, C.A. - ASKARPOUR, A.N. - ALU, A. In *PHYSICAL REVIEW B*. DEC 10 2015, vol. 92, no. 22., WOS
23. [1.1] WANG, X.H. - LIU, Y.W. - FENG, Y.C. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. JUN 15 2015, vol. 513, p. 13-17., WOS
24. [1.1] YANG, T.Z. - BAI, X. - GAO, D.L. - WU, L.Z. - LI, B.W. - THONG, J.T.L. - QIU, C.W. In *ADVANCED MATERIALS*. DEC 16 2015, vol. 27, no. 47, p. 7752-7758., WOS
25. [1.1] ZHANG, Y.M. - XU, H.Y. - ZHANG, B.L. In *AIP ADVANCES*. MAY 2015, vol. 5, no. 5., WOS
26. [1.1] ZHU, J.F. - JIANG, W. - LIU, Y.C. - YIN, G. - YUAN, J. - HE, S.L. - MA, Y.G. In *NATURE COMMUNICATIONS*. NOV 2015, vol. 6., WOS

ADCA75

GÖMÖRY, Fedor - ŠOUC, Ján - PARDO, Enric - SEILER, Eugen - SOLOVYOV, Mykola - FROLEK, Lubomír - SKARBA, M. - KONOPKA, P. - PEKARČIKOVÁ, M. - JANOVEC, J. AC loss in pancake coil made from 12mm wide ReBCO tape. In *IEEE Transactions on Applied Superconductivity*, 2013, vol. 23, 5900406. (1.199 - IF2012). (2013 - Current Contents, SCOPUS). ISSN 1051-8223.

Citácie:

1. [1.1] HU, D. - AINSLIE, M.D. - RUSH, J.P. - DURRELL, J.H. - ZOU, J. - RAINE, M.J. - HAMPSHIRE, D.P. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. JUN 2015, vol. 28, no. 6., WOS
2. [1.1] KRUGER, P.A.C. - ZERMENO, V.M.R. - TAKAYASU, M. - GRILLI, F. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. JUN 2015, vol. 25, no. 3., WOS
3. [1.1] ZERMENO, V. - SIROIS, F. - TAKAYASU, M. - VOJENCIAK, M. - KARIO, A. - GRILLI, F. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. AUG 2015, vol. 28, no. 8., WOS
4. [1.1] ZHANG, Y. - SONG, Y.T. - WANG, L. - LIU, X.F. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. AUG 2015, vol. 28, no. 8., WOS
5. [1.2] Ainslie, M.D., Hu, D., Zou, J., Cardwell, D.A. *IEEE Transactions on Applied Superconductivity* 25 (2015), 6965596, SCOPUS
6. [1.2] Awaji, S., Kajikawa, K., Watanabe, K., Oguro, H., Mitose, T., Fujita, S., Daibo, M., Iijima, Y., Miyazaki, H., Takahashi, M., Ioka, S. *IEEE Transactions on Applied Superconductivity* 25 (2015), 6945815, SCOPUS

7. [1.2] Hu, D., Ainslie, M.D., Zou, J., Cardwell, D.A. *IEEE Transactions on Applied Superconductivity* 25 (2015), 6983573, SCOPUS
- ADCA76 GÖMÖRY, Fedor - FROLEK, Lubomír - ŠOUC, Ján. Non-uniform current distribution as the cause of false voltage signals in the ac loss measurement on a superconducting cable. In *Superconductor Science and Technology*, 2005, vol. 18, p. 780-790. (1.556 - IF2004). (2005 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
Citácie:
1. [1.2] Elschner, S., Demencik, E., Douine, B., Grilli, F., Kudymow, A., Stemmler, M., Strauss, S., Zermeno, V., Goldacker, W. *IEEE Transactions on Applied Superconductivity* 25 (2015) 5900105, SCOPUS
- ADCA77 GÖMÖRY, Fedor - ŠOUC, Ján - VOJENČIAK, Michal - KLINČOK, Boris. Phenomenological description of flux pinning in non-uniform high-temperature superconductors in magnetic fields lower than self-field. In *Superconductor Science and Technology*, 2007, vol. 20, p. S271-S277. (1.440 - IF2006). (2007 - Current Contents, SCOPUS). ISSN 0953-2048.
Citácie:
1. [1.2] Deng, X., Tang, Y., Zhang, Y., Ren, L., Liu, H., Gong, Y., Li, J. *IEEE Transactions on Applied Superconductivity* 25 (2015), 4603005, SCOPUS
- ADCA78 GÖMÖRY, Fedor - VOJENČIAK, Michal - PARDO, Enric - SOLOVYOV, Mykola - ŠOUC, Ján. AC losses in coated conductors. In *Superconductor Science and Technology*, 2010, vol. 23, 034012. (2.694 - IF2009). (2010 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
Citácie:
1. [1.1] AINSLIE, M.D. - FUJISHIRO, H. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. MAY 2015*, vol. 28, no. 5., WOS
2. [1.1] GENENKO, Y.A. - RAUH, H. - KURDI, S. In *JOURNAL OF APPLIED PHYSICS. JUN 28 2015*, vol. 117, no. 24., WOS
3. [1.1] LAI, L.F. - GU, C. - QU, T.M. - ZHANG, M. - LI, Y.Q. - LIU, R. - COOMBS, T. - HAN, Z.H. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015*, vol. 25, no. 3., WOS
4. [1.1] LI, S. - CHEN, D.X. - FANG, J. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. DEC 2015*, vol. 28, no. 12., WOS
5. [1.1] LIU, Y. - ZHANG, X.Y. - LIU, W. - ZHOU, J. - ZHOU, Y.H. In *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM. SEP 2015*, vol. 28, no. 9, p. 2703-2709., WOS
6. [1.1] PHILIPPE, M.P. - AINSLIE, M.D. - WERA, L. - FAGNARD, J.F. - DENNIS, A.R. - SHI, Y.H. - CARDWELL, D.A. - VANDERHEYDEN, B. - VANDERBEMDEN, P. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. SEP 2015*, vol. 28, no. 9., WOS
7. [1.1] TAKAO, T. - USAMI, T. - YASUKAWA, S. - HORIE, T. - TAKAHASHI, M. - KAMIJO, H. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015*, vol. 25, no. 3., WOS
8. [1.1] WAN, X.X. - HUANG, C.G. - YONG, H.D. - ZHOU, Y.H. In *AIP ADVANCES. NOV 2015*, vol. 5, no. 11., WOS
9. [1.1] YILDIZ, S. - INANIR, F. - CICEK, A. In *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM. NOV 2015*, vol. 28, no. 11, p. 3205-3209., WOS
10. [1.1] ZHANG, M. - YUAN, W.J. - KVITKOVIC, J. - PAMIDI, S. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. NOV 2015*, vol. 28, no. 11., WOS
11. [1.2] Hu, D., Ainslie, M.D., Zou, J., Cardwell, D.A. *IEEE Transactions on Applied Superconductivity* 25 (2015), 6983573, SCOPUS
- ADCA79 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.
Citácie:
1. [1.1] MA, G.L. - WANG, Y.S. - ZHU, J.H. - LI, Z.M. - LIU, W. - QIU, M. In *2015 IEEE International Conference on Applied Superconductivity and Electromagnetic Devices (ASEMD). 2015*, p. 492-493., WOS
- ADCA80 GRAJCAR, M. - PLECENIK, Andrej - DARULA, Marian - BEŇAČKA, Štefan. Surface degradation of YBa₂Cu₃O_{7-?} observed by means of contact resistance measurement. In *Solid State Communications : an international journal*, 1992, vol. 81, p. 191-194. (1.370 - IF1991). (1992 - Current Contents). ISSN 0038-1098.
Citácie:
1. [1.2] Waśkiewicz, J., Gołębiowski, J. *Przegląd Elektrotechniczny* 91 (2015), pp. 313-317, SCOPUS
- ADCA81 GRAJCAR, M. - PLECENIK, Andrej - SEIDEL, P. - PFUCH, A. Influence of inelastic effects on

differential conductance of a high-Tc superconductor/metal junction. In *Physical Review B*, 1995, vol. 51, p. 16185-16189.

Citácie:

1. [1.1] RAZAVI, F.S. - ROHANIZADEGAN, Y. - HAJIALAMDARI, M. - REEDYK, M. - KREMER, R.K. - MITROVIC, B. In *CANADIAN JOURNAL OF PHYSICS*. DEC 2015, vol. 93, no. 12, p. 1646-1650., WOS

ADCA82 GREGUŠOVÁ, Dagmar - STOKLAS, Roman - MIZUE, Ch. - HORI, Y. - NOVÁK, Jozef - HASHIZUME, T. - KORDOŠ, Peter. Trap states in AlGaIn/GaN metal-oxide-semiconductor structures with Al₂O₃ prepared by atomic layer deposition. In *Journal of Applied Physics*, 2010, vol. 107, 106104. (2.072 - IF2009). (2010 - Current Contents, WOS, SCOPUS). ISSN 0021-8979.

Citácie:

1. [1.1] CHOI, S. - KANG, Y. - KIM, J. - KIM, J. - CHOI, S.J. - KIM, D.M. - CHA, H.Y. - KIM, H. - KIM, D.H. In *JOURNAL OF SEMICONDUCTOR TECHNOLOGY AND SCIENCE*. OCT 2015, vol. 15, no. 5, p. 497-503., WOS

2. [1.1] FANG, Y.L. - FENG, Z.H. - LI, C.M. - YIN, J.Y. - ZHANG, Z.R. - DUN, S.B. - LV, Y.J. - GUO, J.C. - CAI, S.J. In *SUPERLATTICES AND MICROSTRUCTURES*. JUN 2015, vol. 82, p. 201-206., WOS

3. [1.1] LEE, J.Y. - PARK, B.R. - LEE, J.G. - LIM, J. - CHA, H.Y. In *JOURNAL OF SEMICONDUCTOR TECHNOLOGY AND SCIENCE*. FEB 2015, vol. 15, no. 1, p. 16-21., WOS

4. [1.1] SCHILIRO, E. - GRECO, G. - FIORENZA, P. - TUDISCO, C. - CONDORELLI, G.G. - DI FRANCO, S. - ROCCAFORTE, F. - LO NIGRO, R. In *PHYSICA STATUS SOLIDI C: CURRENT TOPICS IN SOLID STATE PHYSICS, VOL 12, NO 7. 2015*, vol. 12, no. 7, p. 980-984., WOS

5. [1.1] ZHANG, P. - ZHAO, S.L. - XUE, J.S. - ZHU, J.J. - MA, X.H. - ZHANG, J.C. - HAO, Y. In *CHINESE PHYSICS B*. DEC 2015, vol. 24, no. 12., WOS

ADCA83 GREGUŠOVÁ, Dagmar - MARTAUŠ, Jozef - FEDOR, Ján - KÚDELA, Róbert - KOSTIČ, Ivan - CAMBEL, Vladimír. On-tip sub-micrometer Hall probes for magnetic microscopy prepared by AFM lithography. In *Ultramicroscopy*, 2009, vol. 109, p. 1080-1084. (2.629 - IF2008). (2009 - Current Contents).

Citácie:

1. [3.2] KOELMANS, W.W. - ENGELEN, J.B.C. - ABELMANN, L. *Probe-based data storage. Research report RZ 3891. In arXiv:1511.08755v1 [physics.ins-det] 25 Nov 2015, 32 p.*

<http://arxiv.org/pdf/1511.08755v1.pdf>, Google Scholar

ADCA84 GREGUŠOVÁ, Dagmar - JURKOVIČ, Michal - HAŠČÍK, Štefan - BLAHO, Michal - SEIFERTOVIÁ, Alena - FEDOR, Ján - ĎAPAJNA, Milan - FRÖHLICH, Karol - VOGRINČIČ, P. - LIDAY, J. - DERLUYN, J. - GERMAIN, M. - KUZMÍK, Ján. Adjustment of threshold voltage in AlN/AlGaIn/GaN high-electron mobility transistors by plasma oxidation and Al₂O₃ atomic layer deposition overgrowth. In *Applied Physics Letters*, 2014, vol. 104, 013506. (3.515 - IF2013). (2014 - Current Contents). ISSN 0003-6951.

Citácie:

1. [1.1] HAHN, H. - BENKHELIFA, F. - AMBACHER, O. - BRUNNER, F. - NOCULAK, A. - KALISCH, H. - VESCAN, A. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. FEB 2015, vol. 62, no. 2, p. 538-545., WOS

2. [1.1] HAHN, H. - PECS, B. - KOVACS, A. - HEUKEN, M. - KALISCH, H. - VESCAN, A. In *JOURNAL OF APPLIED PHYSICS*. JUN 7 2015, vol. 117, no. 21., WOS

3. [1.1] QIN, X.Y. - WALLACE, R.M. In *APPLIED PHYSICS LETTERS*. AUG 24 2015, vol. 107, no. 8., WOS

ADCA85 GREGUŠOVÁ, Dagmar - HUŠEKOVÁ, Kristína - STOKLAS, Roman - BLAHO, Michal - JURKOVIČ, Michal - CARLIN, J.-F. - GRANDJEAN, N. - KORDOŠ, Peter. Zr₂/InAlN/GaN metal-oxide-semiconductor heterostructure field-effect transistors with InAlN barrier of different compositions. In *Japanese Journal of Applied Physics*, 2013, vol. 52, 08JN07. (1.067 - IF2012). (2013 - Current Contents). ISSN 0021-4922.

Citácie:

1. [1.1] FREEDSMAN, J.J. - WATANABE, A. - URAYAMA, Y. - EGAWA, T. In *APPLIED PHYSICS LETTERS*. SEP 7 2015, vol. 107, no. 10., WOS

ADCA86 GREGUŠOVÁ, Dagmar - STOKLAS, Roman - ČIČO, Karol - LALINSKÝ, Tibor - KORDOŠ, Peter. AlGaIn/GaN metal-oxide-semiconductor heterostructure field-effect transistors with 4nm thick Al₂O₃ gate oxide. In *Semiconductor Science and Technology*, 2007, vol. 22, p. 947-951. (1.590 - IF2006). (2007 - Current Contents). ISSN 0268-1242.

Citácie:

1. [1.1] ASUBAR, J.T. - KOBAYASHI, Y. - YOSHITSUGU, K. - YATABE, Z. - TOKUDA, H. - HORITA, M. - URAOKA, Y. - HASHIZUME, T. - KUZUHARA, M. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. AUG 2015, vol. 62, no. 8, p. 2423-2428., WOS

2. [1.1] CHOU, B.Y. - HSU, W.C. - LIU, H.Y. - LEE, C.S. - WU, Y.S. - SUN, W.C. - WEI, S.Y. -

- YU, S.M. - CHIANG, M.H. In SEMICONDUCTOR SCIENCE AND TECHNOLOGY. JAN 2015, vol. 30, no. 1., WOS*
3. [1.1] *KIM, J.J. - PARK, Y.R. - JANG, H.G. - NA, J.H. - LEE, H.S. - KO, S.C. - JUNG, D.Y. - LEE, H.S. - MUN, J.K. - LIM, J.H. - YANG, J.W. In JAPANESE JOURNAL OF APPLIED PHYSICS. MAR 2015, vol. 54, no. 3., WOS*
- ADCA87 GREGUŠOVÁ, Dagmar - CAMBEL, Vladimír - FEDOR, Ján - KÚDELA, Róbert - ŠOLTÝS, Ján - LALINSKÝ, Tibor - KOSTIČ, Ivan - BENDING, S.J. Fabrication of a vector Hall sensor for magnetic microscopy. In Applied Physics Letters, 2003, vol. 82, p. 3704-3706. (2003 - Current Contents, SCOPUS). ISSN 0003-6951.
- Citácie:
1. [1.1] *CHANG, Jui-Hang - CHANG, Ching-Ray. Tunable three-axis magnetoresistance sensor with a spin-polarised current. In JOURNAL OF PHYSICS D-APPLIED PHYSICS. ISSN 0022-3727, 2015, vol. 48, no. 40, pp., WOS*
- ADCA88 GRILLI, F. - SIROIS, F. - ZERMONO, V. - VOJENČIAK, Michal. Self-consistent modeling of the I_c of HTS devices: how accurate do models really need to be? In IEEE Transactions on Applied Superconductivity, 2014, vol. 24, 8000508. (1.324 - IF2013). (2014 - Current Contents). ISSN 1051-8223.
- Citácie:
1. [1.1] *GHABELI, A. - YAZDANI-ASRAMI, M. - BESMI, M.R. - GHOLAMIAN, S.A. In JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM. DEC 2015, vol. 28, no. 12, p. 3463-3479., WOS*
- ADCA89 GRILLI, F. - ZERMONO, V. - VOJENČIAK, Michal - PARDO, Enric - KARIO, A. - GOLDACKER, W. AC losses of pancake coils made of Roebel cable. In IEEE Transactions on Applied Superconductivity, 2013, vol. 23, 5900205. (1.199 - IF2012). (2013 - Current Contents, SCOPUS). ISSN 1051-8223.
- Citácie:
1. [1.1] *XIA, J. - BAI, H.Y. - LU, J. - GAVRILIN, A.V. - ZHOU, Y.H. - WEIJERS, H.W. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. DEC 2015, vol. 28, no. 12., WOS*
2. [1.2] *Jaroszyński, L., Janowski, T. Przegląd Elektrotechniczny 91 (2015), pp. 284-287, SCOPUS*
3. [1.2] *Tsukamoto, T., Mifune, T., Sogabe, Y., Jiang, Z., Nakamura, T., Amemiya, N. IEEE Transactions on Applied Superconductivity 25 (2015), 6954476, SCOPUS*
- ADCA90 GRILLI, F. - PARDO, Enric - STENVALL, A. - NGUYEN, D.N. - YUAN, W. - GÖMÖRY, Fedor. Computation of losses in HTS under the action of varying magnetic fields and currents. In IEEE Transactions on Applied Superconductivity, 2014, vol. 24, p. 8200433. (1.324 - IF2013). (2014 - Current Contents). ISSN 1051-8223.
- Citácie:
1. [1.1] *AINSLIE, M.D. - FUJISHIRO, H. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. MAY 2015, vol. 28, no. 5., WOS*
2. [1.1] *CHEN, D.X. - LI, S. - FANG, J. In PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS. DEC 15 2015, vol. 519, p. 89-94., WOS*
3. [1.1] *DE BRUYN, B.J.H. - JANSEN, J.W. - LOMONOVA, E.A. In ARCHIVES OF ELECTRICAL ENGINEERING. DEC 2015, vol. 64, no. 4, p. 559-570., WOS*
4. [1.1] *ESCAMEZ, G. - BADEL, A. - TIXADOR, P. - RAMDANE, B. - MEUNIER, G. - ALLAIS, A. - BRUZEK, C.E. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS*
5. [1.1] *GENENKO, Y.A. - RAUH, H. - KURDI, S. In JOURNAL OF APPLIED PHYSICS. JUN 28 2015, vol. 117, no. 24., WOS*
6. [1.1] *JIA, C.X. - CHEN, D.X. - LI, S. - FANG, J. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. OCT 2015, vol. 28, no. 10., WOS*
7. [1.1] *JIN, J.X. - CHEN, X.Y. - QU, R.H. - XIN, Y. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS*
8. [1.1] *LI, S. - CHEN, D.X. - FAN, Y. - FANG, J. In PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS. JAN 15 2015, vol. 508, p. 12-16., WOS*
9. [1.1] *LI, S. - CHEN, D.X. - FANG, J. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. DEC 2015, vol. 28, no. 12., WOS*
10. [1.1] *MORANDI, A. - FABBRI, M. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. FEB 2015, vol. 28, no. 2., WOS*
11. [1.1] *PRATAP, S. - HEARN, C.S. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. OCT 2015, vol. 25, no. 5., WOS*
12. [1.1] *WANG, L. - LIU, J.H. - WANG, H. - GOU, C.C. - ZHOU, J.B. In 2015 IEEE International Conference on Applied Superconductivity and Electromagnetic Devices (ASEMD). 2015, p. 486-487., WOS*

13. [1.1] XIA, J. - BAI, H.Y. - LU, J. - GAVRILIN, A.V. - ZHOU, Y.H. - WEIJERS, H.W. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. DEC 2015, vol. 28, no. 12., WOS*
14. [1.1] XIA, J. - ZHOU, Y.H. In *CRYOGENICS. JUL 2015, vol. 69, p. 1-9., WOS*
15. [1.1] ZHANG, M. - YUAN, W.J. - KVITKOVIC, J. - PAMIDI, S. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. NOV 2015, vol. 28, no. 11., WOS*
16. [1.2] Kowalski, T., Teigelkötter, J., Stock, A., Reis, T. *IEEE Transactions on Applied Superconductivity 25 (2015), 6963276, SCOPUS*
17. [1.2] Lu, J., Bai, H., Gavrillin, A.V., Zhang, G., Markiewicz, W.D., Weijers, H.W. *IEEE Transactions on Applied Superconductivity 25 (2015), 4701005, SCOPUS*
- ADCA91 GRILLI, F. - PARDO, Enric. Simulation of ac loss in Roebel coated conductor cables. In *Superconductor Science and Technology, 2010, vol. 23, 115018. (2.694 - IF2009). (2010 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.*
Citácie:
1. [1.2] Tsukamoto, T., Mifune, T., Sogabe, Y., Jiang, Z., Nakamura, T., Amemiya, N. *IEEE Transactions on Applied Superconductivity, SCOPUS*
- ADCA92 GRILLI, F. - RODRIGUEZ-ZERMENO, V.M. - PARDO, Enric - VOJENČIAK, Michal - BRAND, J. - KARIO, A. - GOLDACKER, W. Self-field effects and AC losses in pancake coils assembled from coated conductor Roebel cables. In *IEEE Transactions on Applied Superconductivity, 2014, vol. 24, p. 4801005. (1.324 - IF2013). (2014 - Current Contents). ISSN 1051-8223.*
Citácie:
1. [1.1] AMEMIYA, N. - TSUKAMOTO, T. - NII, M. - KOMEDA, T. - NAKAMURA, T. - JIANG, Z.N. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. MAR 2014, vol. 27, no. 3., WOS*
2. [1.1] SOLOVYOV, M. - SOUC, J. - GOMORY, F. In *11TH EUROPEAN CONFERENCE ON APPLIED SUPERCONDUCTIVITY (EUCAS2013), PTS 1-4. 2014, vol. 507., WOS*
3. [1.1] WANG, L. - WANG, Q.L. - WANG, H. - HU, X.N. - YAN, L.G. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS*
4. [1.1] XIA, J. - BAI, H.Y. - LU, J. - GAVRILIN, A.V. - ZHOU, Y.H. - WEIJERS, H.W. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. DEC 2015, vol. 28, no. 12., WOS*
5. [1.2] Ainslie, M.D., Hu, D., Zou, J., Cardwell, D.A. *IEEE Transactions on Applied Superconductivity 25 (2015), 6965596, SCOPUS*
6. [1.2] Tsukamoto, T., Mifune, T., Sogabe, Y., Jiang, Z., Nakamura, T., Amemiya, N. *IEEE Transactions on Applied Superconductivity 25 (2015), 6954476, SCOPUS*
- ADCA93 GROVENOR, C.R.M. - GOODSIR, L. - SALTER, C.J. - KOVÁČ, Pavol - HUŠEK, Imrich. Interfacial reactions and oxygen distribution in MgB₂ wires in Fe, stainless steel and Nb sheaths. In *Superconductor Science and Technology, 2004, vol. 17, p. 479-484. (2.247 - IF2003). (2004 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.*
Citácie:
1. [1.1] SOBRERO, C.E. - MALACHEVSKY, M.T. - SERQUIS, A. In *ADVANCES IN CONDENSED MATTER PHYSICS. 2015., WOS*
- ADCA94 GUCMANN, Filip - GREGUŠOVÁ, Dagmar - STOKLAS, Roman - DÉRER, Ján - KÚDELA, Róbert - FRÖHLICH, Karol - KORDOŠ, Peter. InGaAs/GaAs metal-oxide-semiconductor heterostructure field-effect transistors with oxygen-plasma oxide and Al₂O₃ double-layer insulator. In *Applied Physics Letters, 2014, vol. 105, 183504. (3.515 - IF2013). (2014 - Current Contents). ISSN 0003-6951.*
Citácie:
1. [1.1] KIM, S.H. - KIM, G.S. - KIM, J.K. - PARK, J.H. - SHIN, C. - CHOI, C. - YU, H.Y. In *IEEE ELECTRON DEVICE LETTERS. SEP 2015, vol. 36, no. 9, p. 884-886., WOS*
- ADCA95 HARTMANOVÁ, Mária - THURZO, Ilja - JERSEL, Matej - BARTOŠ, J. - KADLEC, K. - ŽELEZNÝ, V. - TUNEGA, Daniel - KUNDRACIK, F. - CHROMIK, Štefan - BRUNEL, M. Characterization of yttria-stabilized zirconia thin films deposited by electron beam evaporation on silicon substrates. In *Journal of Materials Science, 1998, vol. 33, p. 969-975. (0.670 - IF1997).*
Citácie:
1. [1.1] CHOPADEV, S.S. - NAYAK, C. - BHATTACHARYYA, D. - JHA, S.N. - TOKAS, R.B. - SAHOO, N.K. - DEO, M.N. - BISWAS, A. - RAI, S. - RAMAN, K.H.T. - RAO, G.M. - KUMAR, N. - PATIL, D.S. In *APPLIED SURFACE SCIENCE. NOV 15 2015, vol. 355, p. 82-92., WOS*
- ADCA96 HASENÖHRL, Stanislav - ELIÁŠ, Peter - ŠOLTÝS, Ján - STOKLAS, Roman - LAURENČÍKOVÁ, Agáta - NOVÁK, Jozef. Zinc-doped gallium phosphide nanowires for photovoltaic structures. In *Applied Surface Science, 2013, vol. 269, p. 72-76. (2.112 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0169-4332.*
Citácie:
1. [1.1] CHANDIRAMOULI, R. In *MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS. APR 2015, vol. 194, p. 55-61., WOS*
- ADCA97 HASENÖHRL, Stanislav - NOVÁK, Jozef - KÚDELA, Róbert - BETKO, Július - MORVIC, Marian

- FEDOR, Ján. Anisotropy in transport properties of ordered strained InGaP. In Journal of Crystal Growth, 2003, vol. 248, p. 369-374. ISSN 0022-0248.
- Citácie:
1. [1.1] HUANG, R.R. - ZHANG, S.Y. - CUI, M.Y. - JUN, X. - HE, Z.Z. In *CHINESE JOURNAL OF STRUCTURAL CHEMISTRY*. 2015, vol. 34, no. 4, p. 594-598., WOS
- ADCA98 HEIDELBERG, G. - BERNÁT, J. - FOX, A. - MARSO, M. - LÜTH, Hans - GREGUŠOVÁ, Dagmar - KORDOŠ, Peter. Comparative study on unpassivated and passivated AlGaIn/GaN HFETs and MOSHEFTs. In Physica Status Solidi A.Applied Research, 2006, vol. 203, p. 1876-1881. ISSN 0031-8965.
- Citácie:
1. [1.1] DONMEZER, N. - ISLAM, M. - YODER, P.D. - GRAHAM, S. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. AUG 2015, vol. 62, no. 8, p. 2437-2444., WOS
- ADCA99 HLÁSNÍK, Ivan - KOKAVEC, Ján. Hall generator in homogeneous field and the dipole notion of the Hall effect. In Solid-State Electronics, 1966, vol. 9, p. 585. ISSN 0038-1101.
- Citácie:
1. [1.1] KOON, D.W. - HERMANOVA, M. - NAHLIK, J. In *MEASUREMENT SCIENCE AND TECHNOLOGY*. NOV 2015, vol. 26, no. 11., WOS
- ADCA100 HLINKA, Jozef - GREGORA, I. - POKORNÝ, Jaromír - PLECENIK, Andrej - KÚŠ, P. - SATRAPINSKY, L. - BEŇAČKA, Štefan. Phonons in MgB₂ by polarized Raman scattering on single crystals. In Physical Review B, 2001, vol. 64, p. 140503-1-140503-4. (3.065 - IF2000). (2001 - Current Contents, WOS, SCOPUS). ISSN 1550-235X.
- Citácie:
1. [1.1] DAS, S.K. - BEDAR, A. - KANNAN, A. - JASUJA, K. In *SCIENTIFIC REPORTS*. JUN 4 2015, vol. 5., WOS
- ADCA101 HOLLÝ, V. - KUBĚNA, J. - VAN DEN HOOGENHOF, W.W. - VÁVRA, Ivo. Effect of interfacial roughness replication on the diffuse x-ray reflection from periodical multilayers. In Applied Physics A, 1995, vol. 60, p. 93-96.
- Citácie:
1. [1.1] KIM, C.K. - PARK, Y.S. - HAN, S.J. - CHAE, J.Y. - NA, B.K. In *KOREAN JOURNAL OF CHEMICAL ENGINEERING*. OCT 2015, vol. 32, no. 10, p. 2124-2132., WOS
- ADCA102 HOLÚBEK, Tomáš - KOVÁČ, Pavol - TAKÁCS, Silvester - HUŠEK, Imrich - MELIŠEK, Tibor. Current sharing and the stability of composite MgB₂ superconductors. In Superconductor Science and Technology, 2008, vol. 21, art. no. 065013. (2.547 - IF2007). (2008 - Current Contents, SCOPUS). ISSN 0953-2048.
- Citácie:
1. [1.1] BADICA, P. - TISEANU, I. - ALDICA, G. - CRACIUNESCU, T. - SANDU, V. - JAKOB, G. - RINDFLEISCH, M. In *JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS*. NOV-DEC 2015, vol. 17, no. 11-12, p. 1636-1649., WOS
- ADCA103 HOLÚBEK, Tomáš - DHALLÉ, M. - KOVÁČ, Pavol. Current transfer in MgB₂ wires with different sheath materials. In Superconductor Science and Technology, 2007, vol. 20, p. 123-128. (1.440 - IF2006). (2007 - Current Contents, SCOPUS). ISSN 0953-2048.
- Citácie:
1. [1.1] GAJDA, D. - MORAWSKI, A. - ZALESKI, A. - HOSSAIN, M.S.A. - RINDFLEISCH, M. - CETNER, T. In *JOURNAL OF ALLOYS AND COMPOUNDS*. OCT 25 2015, vol. 647, p. 303-309., WOS
2. [1.1] GAJDA, D. - ZALESKI, A.J. - MORAWSKI, A. - RINDFLEISCH, M. - THONG, C. - TOMSIC, M. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. NOV 2015, vol. 28, no. 11., WOS
- ADCA104 HOLÝ, V. - DARHUBER, A.A. - STANGL, J. - ZERLAUTH, S. - SCHÄFLER, F. - BAUER, G. - DAROWSKI, N. - LUBERT, D. - PIETSCH, U. - VÁVRA, Ivo. Coplanar and grazing incidence x-ray-diffraction investigation of self-organized SiGe quantum dot multilayers. In Physical Review B, 1998, vol. 58, p. 7934-7943. (2.880 - IF1997). (1998 - Current Contents).
- Citácie:
1. [1.1] PUNEGOV, V.I. In *PHYSICS-USPEKHI*. 2015, vol. 58, no. 5, p. 419-445., WOS
- ADCA105 HORVÁTH, B. - ŠUSTEK, M. - VÁVRA, Ivo - MÍČUŠÍK, Matej - GÁL, M. - HRONEC, M.. Gas-phase epoxidation of propylene over iron-containing catalysts: the effect of iron incorporation in the support matrix. In Catalysis Science and Technology, 2014, vol. 4, p. 2664-2673. (4.760 - IF2013). (2014 - Current Contents). ISSN 2044-4753.
- Citácie:
1. [1.1] LI, Y. - ZHOU, X.T. - CHEN, S.Y. - LUO, R.C. - JIANG, J. - LIANG, Z.X. - JI, H.B. In *RSC ADVANCES*. 2015, vol. 5, no. 38, p. 30014-30020., WOS
- ADCA106 HORVÁTH, B. - HRONEC, M. - VÁVRA, Ivo - ŠUSTEK, M. - KRIŽANOVÁ, Zuzana - DÉRER, Ján - DOBROČKA, Edmund. Direct gas-phase epoxidation of propylene over nanostructured

molybdenum oxide film catalysts. In *Catalysis communications*, 2013, vol. 34, p. 16-21. (2.915 - IF2012). (2013 - Current Contents). ISSN 1566-7367.

Citácie:

1. [1.1] AL-KUHAILI, M.F. - AHMAD, S.H.A. - DURRANI, S.M.A. - FAIZ, M.M. - UL-HAMID, A. In *MATERIALS & DESIGN*. MAY 15 2015, vol. 73, p. 15-19., WOS
2. [1.1] KHATIB, S.J. - OYAMA, S.T. In *CATALYSIS REVIEWS-SCIENCE AND ENGINEERING*. JUL 3 2015, vol. 57, no. 3, p. 306-344., WOS
3. [1.1] LEI, Y.J. - CHEN, X.H. - XU, C.Z. - DAI, Z.C. - WEI, K.M. In *JOURNAL OF CATALYSIS*. JAN 2015, vol. 321, p. 100-112., WOS
4. [1.1] STOJADINOVIC, S. - TADIC, N. - SISOVIC, N.M. - VASILIC, R. In *JOURNAL OF APPLIED PHYSICS*. JUN 21 2015, vol. 117, no. 23., WOS

ADCA107 HOSSAIN, M.S.A. - MOTAMAN, A. - BARUA, S. - PATEL, D. - MUSTAPIC, M. - KIM, J. H. - MAEDA, M. - RINDFLEISCH, M. - TOMSIC, M. - ÇIÇEK, Özlem - MELIŠEK, Tibor - KOPERA, Ľubomír - KARIO, A. - RINGSDORF, B. - RUNTSCH, B. - JUNG, A. - DOU, S.X. - GOLDACKER, W. - KOVÁČ, Pavol. The roles of CHPD: superior critical current density and n-value obtained in binary in situ MgB₂ cables. In *Superconductor Science and Technology*, 2014, vol. 27, 095016. (2.796 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] SUGINO, S. - YAMAMOTO, A. - SHIMOYAMA, J. - KISHIO, K. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. MAY 2015, vol. 28, no. 5., WOS

ADCA108 HOTOVÝ, I. - ŘEHÁČEK, V. - MIKA, F. - LALINSKÝ, Tibor - HAŠČÍK, Štefan - VANKO, Gabriel - DRŽÍK, Milan. Gallium arsenide suspended microheater for MEMS sensor arrays. In *Microsystem Technologies*, 2008, vol. 14, p. 629-635. (0.912 - IF2007).

Citácie:

1. [1.1] SAMAEIFAR, F. - HAJGHASSEM, H. - AFIFI, A. - ABDOLLAHI, H. In *SENSOR REVIEW*. 2015, vol. 35, no. 1, p. 116-124., WOS

ADCA109 HOTOVÝ, I. - HURAN, Jozef - SPIESS, L. Characterization of sputtered NiO films using XRD and AFM. In *Journal of Materials Science*. - New York : Springer, 2004, vol. 39, p. 2609-2612. (0.826 - IF2003). (2004 - Current Contents, WOS, SCOPUS). ISSN 0022-2461.

Citácie:

1. [1.1] COMIGNANI, V. - SIEBEN, J.M. - BRIGANTE, M.E. - DUARTE, M.M.E. In *JOURNAL OF POWER SOURCES*. MAR 15 2015, vol. 278, p. 119-127., WOS
2. [1.1] DONG, D.M. - WANG, W.W. - DONG, G.B. - ZHOU, Y.L. - WU, Z.H. - WANG, M. - LIU, F.M. - DIAO, X.G. In *APPLIED SURFACE SCIENCE*. DEC 1 2015, vol. 357, A, p. 799-805., WOS
3. [1.1] KERAUDY, J. - MOLLEJA, J.G. - FERREC, A. - CORRAZE, B. - RICHARD-PLOUET, M. - GOULLET, A. - JOUAN, P.Y. In *APPLIED SURFACE SCIENCE*. DEC 1 2015, vol. 357, A, p. 838-844., WOS
4. [1.1] KUMAR, R. - BARATTO, C. - FAGLIA, G. - SBERVEGLIERI, G. - BONTEMPI, E. - BORGESSE, L. In *THIN SOLID FILMS*. MAY 29 2015, vol. 583, p. 233-238., WOS
5. [1.1] SUN, X.C. - LIU, Y.X. - GAO, H.Y. - GAO, P.X. - LEI, Y. In *FRONTIERS IN CHEMISTRY*. 2014, vol. 2., WOS

ADCA110 HOTOVÝ, I. - HURAN, Jozef - SPIESS, L. - LIDAY, J. - SITTER, H. - HAŠČÍK, Štefan. Influence of process parameters and annealing temperature on the physical properties of sputtered NiO thin films. In *Vacuum*, 2002, vol. 69, p. 237-242.

Citácie:

1. [1.1] MOHAMMED, M.Z. - AL-HILO, A.A. - CHEN, T.P. In *2014 IEEE 40TH PHOTOVOLTAIC SPECIALIST CONFERENCE (PVSC)*. 2014, p. 2998-3003., WOS
2. [1.1] SHEEHAN, Stephen - NAPONIELLO, Gaia - ODOBEL, Fabrice - DOWLING, Denis P. - DI CARLO, Aldo - DINI, Danilo. In *JOURNAL OF SOLID STATE ELECTROCHEMISTRY*. APR 2015, vol. 19, no. 4, p. 975-986., WOS

ADCA111 HOTOVÝ, I. - HURAN, Jozef - SPIESS, L. - HAŠČÍK, Štefan - REHACEK, V. Preparation of nickel oxide thin films for gas sensors applications. In *Sensors and Actuators B : Chemical*, 1999, vol. 57, p. 147-152. (1.130 - IF1998). (1999 - Current Contents).

Citácie:

1. [1.1] AL-HENITI, S.H. In *SCIENCE OF ADVANCED MATERIALS*. NOV 2015, vol. 7, no. 11, p. 2459-2465., WOS
2. [1.1] ANANDAN, K. - RAJENDRAN, V. In *MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS*. SEP 2015, vol. 199, p. 48-56., WOS
3. [1.1] CHAKRABARTY, N. - SIVAPRAKASH, S. - CHAKRABORTY, A.K. In *PROCEEDINGS OF THE 59TH DAE SOLID STATE PHYSICS SYMPOSIUM 2014 (SOLID STATE PHYSICS)*. 2015, vol. 1665., WOS
4. [1.1] CHEN, T.F. - WANG, A.J. - SHANG, B.Y. - WU, Z.L. - LI, Y.L. - WANG, Y.S. In

- JOURNAL OF ALLOYS AND COMPOUNDS. SEP 15 2015, vol. 643, p. 167-173., WOS*
5. [1.1] IWUEKE, D.C. - AMAECHI, C.I. - NWANYA, A.C. - EKWEALOR, A.B.C. - ASOGWA, P.U. - OSUJI, R.U. - MAAZA, M. - EZEMA, F.I. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. APR 2015, vol. 26, no. 4, p. 2236-2242., WOS*
 6. [1.1] KUMAR, R. - BARATTO, C. - FAGLIA, G. - SBERVEGLIERI, G. - BONTEMPI, E. - BORGESSE, L. In *THIN SOLID FILMS. MAY 29 2015, vol. 583, p. 233-238., WOS*
 7. [1.1] MADHUP, M.K. - SHAH, N.K. - WADHWANI, P.M. In *PROGRESS IN ORGANIC COATINGS. MAR 2015, vol. 80, p. 1-10., WOS*
 8. [1.1] PAENG, D. - LEE, D. - YEO, J. - YOO, J.H. - ALLEN, F.I. - KIM, E. - SO, H. - PARK, H.K. - MINOR, A.M. - GRIGOROPOULOS, C.P. In *JOURNAL OF PHYSICAL CHEMISTRY C. MAR 19 2015, vol. 119, no. 11, p. 6363-6372., WOS*
 9. [1.1] PARK, S. - KIM, S. - SUN, G.J. - LEE, C. In *NANOSCIENCE AND NANOTECHNOLOGY LETTERS. SEP 2015, vol. 7, no. 9, p. 713-717., WOS*
 10. [1.1] RAJENDRAN, V. - ANANDAN, K. In *MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. OCT 2015, vol. 38, p. 203-208., WOS*
 11. [1.1] RANJBAR, M. - TAHER, M.A. - SAM, A. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. OCT 2015, vol. 26, no. 10, p. 8029-8034., WOS*
 12. [1.1] SALVADORI, M.R. - ANDO, R.A. - NASCIMENTO, C.A.O. - CORREA, B. In *PLOS ONE. JUN 4 2015, vol. 10, no. 6., WOS*
 13. [1.1] SHEEHAN, S. - NAPONIELLO, G. - ODOBEL, F. - DOWLING, D.P. - DI CARLO, A. - DINI, D. In *JOURNAL OF SOLID STATE ELECTROCHEMISTRY. APR 2015, vol. 19, no. 4, p. 975-986., WOS*
 14. [1.1] VERNARDOU, D. - APOSTOLOPOULOU, M. - LOULOUKAKIS, D. - KATSARAKIS, N. - KOUDOUMAS, E. In *CHEMICAL VAPOR DEPOSITION. DEC 2015, vol. 21, no. 10-12, p. 369-374., WOS*
- ADCA112 HOTOVÝ, I. - BÚC, D. - HAŠČÍK, Štefan - NENNEWITZ, O. Characterization of NiO thin films deposited by reactive sputtering. In *Vacuum, 1998, vol. 50, p. 41-44. (0.480 - IF1997). (1998 - Current Contents).*
Citácie:
1. [1.1] LIU, H. - LERAY, D. - COLIN, S. - PONS, P. *Electrical Contacts In PROCEEDINGS OF THE 2015 SIXTY-FIRST IEEE HOLM CONFERENCE ON ELECTRICAL CONTACTS (HOLM). 2015, p. 266-272., WOS*
2. [1.1] PAVELKOVA, T. - PROCHAZKOVA, L. - CUBA, V. - MUCKA, V. - POSPISIL, M. - JAKUBEC, I. In *JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY. APR 2015, vol. 304, no. 1, p. 245-250., WOS*
- ADCA113 HOTOVÝ, I. - HURAN, Jozef - BÚC, D. - SRNÁNEK, R. Thermal stability of NbN films deposited on GaAs substrates. In *Vacuum, 1998, vol. 50, p. 45-48. (0.480 - IF1997). (1998 - Current Contents).*
Citácie:
1. [1.1] FARHA, A.H. - UFUKTEPE, Y. - MYNENI, G. - ELSAYED-ALI, H.E. In *SCIENCE AND TECHNOLOGY OF INGOT NIOBIUM FOR SUPERCONDUCTING RADIO FREQUENCY APPLICATIONS. 2015, vol. 1687., WOS*
- ADCA114 HOTOVÝ, I. - HURAN, Jozef - JANÍK, J. - KOBZEV, A.P. Deposition and properties of nickel oxide films produced by DC reactive magnetron sputtering. In *Vacuum, 1998, vol. 50, p. 157-160. (0.480 - IF1997). (1998 - Current Contents).*
Citácie:
1. [1.1] BEN AMEUR, S. - BARHOUMI, A. - MIMOUNI, R. - AMLOUK, M. - GUERMAZI, H. *Low-temperature growth and physical investigations of undoped and (In, Co) doped ZnO thin films sprayed on PEI flexible substrate. In SUPERLATTICES AND MICROSTRUCTURES. AUG 2015, vol. 84, p. 99-112., WOS*
2. [1.1] BEN AMOR, M. - BOUKHACHEM, A. - BOUBAKER, K. - AMLOUK, M. In *MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. NOV 2014, vol. 27, p. 994-1006., WOS*
3. [1.1] KANG, Jin Soo - PARK, Min-Ah - KIM, Jae-Yup - PARK, Sun Ha - CHUNG, Dong Young - YU, Seung-Ho - KIM, Jin - PARK, Jongwoo - CHOI, Jung-Woo - LEE, Kyung Jae - JEONG, Juwon - KO, Min Jae - AHN, Kwang-Soon - SUNG, Yung-Eun. *Reactively sputtered nickel nitride as electrocatalytic counter electrode for dye- and quantum dot-sensitized solar cells. In SCIENTIFIC REPORTS. MAY 21 2015, vol. 5., WOS*
4. [1.1] KHATIBANI, A. Bagheri - ROZATI, S. M. *Optical and morphological investigation of aluminium and nickel oxide composite films deposited by spray pyrolysis method as a basis of solar thermal absorber. In BULLETIN OF MATERIALS SCIENCE. APR 2015, vol. 38, no. 2, p. 319-326., WOS*
5. [1.1] WANG, Jian - YANG, Pan - WEI, Xiaowei - ZHOU, Zhihua. *Preparation of NiO two-dimensional grainy films and their high-performance gas sensors for ammonia detection. In NANOSCALE RESEARCH LETTERS. MAR 11 2015, vol. 10., WOS*

6. [1.1] ZHANG, Chao - QIAN, Lihua - ZHANG, Ke - YUAN, Songliu - XIAO, Junwu - WANG, Shuai. Hierarchical porous Ni/NiO core-shells with superior conductivity for electrochemical pseudo-capacitors and glucose sensors. In *JOURNAL OF MATERIALS CHEMISTRY A*. 2015, vol. 3, no. 19, p. 10519-10525., WOS
- ADCA115 HOTOVÝ, I. - HURAN, Jozef - SPIESS, L. - ČAPKOVIČ, R. - HAŠČÍK, Štefan. Preparation and characterization of NiO thin films for gas sensor applications. In *Vacuum*, 2000, vol. 58, p. 300-307. (0.510 - IF1999). (2000 - Current Contents).
Citácie:
1. [1.1] DA SILVA, M.R. - NETO, V.S.L. - LUCILHA, A.C. - SCALVI, L.V.D. - DALL'ANTONIA, L.H. In *IONICS*. MAY 2015, vol. 21, no. 5, p. 1407-1415., WOS
2. [1.2] Thangamani, G., Deshmukh, K., Basheer Ahamed, M., Chidambaram, K., Saranya, K.C., Khadeer Pasha, S. *International Journal of ChemTech Research* 8, (2015) 70-76, SCOPUS
- ADCA116 HOTOVÝ, I. - HURAN, Jozef - SICILIANO, P. - CAPONE, S. - SPIESS, L. - REHACEK, V. Enhancement of H₂ sensing properties of NiO-based thin films with a Pt surface modification. In *Sensors and Actuators B*, 2004, vol. 103, p. 300-311.
Citácie:
1. [1.1] CHOU, P.C. - CHEN, H.I. - LIU, I.P. - CHEN, C.C. - LIOU, J.K. - HSU, K.S. - LIU, W.C. In *IEEE SENSORS JOURNAL*. JUL 2015, vol. 15, no. 7, p. 3711-3715., WOS
2. [1.1] CHOU, P.C. - CHEN, H.I. - LIU, I.P. - CHEN, C.C. - LIOU, J.K. - HSU, K.S. - LIU, W.C. In *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*. JAN 5 2015, vol. 40, no. 1, p. 729-734., WOS
3. [1.1] FOMEKONG, R.L. - TSOBNANG, P.K. - MAGNIN, D. - HERMANS, S. - DELCORTE, A. - NGOLUI, J.L. In *JOURNAL OF SOLID STATE CHEMISTRY*. OCT 2015, vol. 230, p. 381-389., WOS
4. [1.1] JAMAL, R.K. - AADIM, K.A. - AL-ZAIDI, Q.G. - TAABAN, I.N. In *PHOTONIC SENSORS*. SEP 2015, vol. 5, no. 3, p. 235-240., WOS
5. [1.1] LIM, B.W. - LEE, Y.J. - KIM, J.H. - JEONG, H.T. - HA, T.W. - KIM, E.M. - HEO, G.S. - KIM, Y.B. - KIM, H.J. - LEE, H.S. In *JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY*. OCT 2015, vol. 15, no. 10, SI, p. 7522-7525., WOS
6. [1.1] STA, I. - JLIASSI, M. - KANDYLA, M. - HAJJI, M. - KORALLI, P. - ALLAGUI, R. - KOMPITSAS, M. - EZZAOUIA, H. In *JOURNAL OF ALLOYS AND COMPOUNDS*. MAR 25 2015, vol. 626, p. 87-92., WOS
7. [1.1] VARSHNEY, D. - DWIVEDI, S. In *SUPERLATTICES AND MICROSTRUCTURES*. OCT 2015, vol. 86, p. 430-437., WOS
8. [1.1] ZHANG, J. - ZENG, D.W. - ZHU, Q. - WU, J.J. - XU, K. - LIAO, T.G. - ZHANG, G.Z. - XIE, C.S. In *JOURNAL OF PHYSICAL CHEMISTRY C*. AUG 6 2015, vol. 119, no. 31, p. 17930-17939., WOS
- ADCA117 HOTOVÝ, I. - HURAN, Jozef - SPIESS, L. - ROMANUS, H. - BÚC, D. - KOSIBA, R. NiO-based nanostructured thin films with Pt surface modification for gas detection. In *Thin Solid Films*, 2006, vol. 515, p. 658-661. (2006 - Current Contents). ISSN 0040-6090.
Citácie:
1. [1.1] CHOU, P.C. - CHEN, H.I. - LIU, I.P. - CHEN, C.C. - LIOU, J.K. - HSU, K.S. - LIU, W.C. In *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*. JAN 5 2015, vol. 40, no. 1, p. 729-734., WOS
2. [1.1] HORAK, P. - KHUN, J. - VRNATA, M. - BEJŠOVEC, V. - LAVRENTIEV, V. - VACIK, J. In *NANOCON 2014, 6TH INTERNATIONAL CONFERENCE*. 2015, p. 469-474., WOS
3. [1.1] JAMAL, R.K. - AADIM, K.A. - AL-ZAIDI, Q.G. - TAABAN, I.N. In *PHOTONIC SENSORS*. SEP 2015, vol. 5, no. 3, p. 235-240., WOS
4. [1.1] RUSI - MAJID, S.R. In *ELECTROCHIMICA ACTA*. SEP 1 2015, vol. 175, p. 193-201., WOS
5. [1.1] STA, I. - JLIASSI, M. - KANDYLA, M. - HAJJI, M. - KORALLI, P. - ALLAGUI, R. - KOMPITSAS, M. - EZZAOUIA, H. In *JOURNAL OF ALLOYS AND COMPOUNDS*. MAR 25 2015, vol. 626, p. 87-92., WOS
- ADCA118 HOTOVÝ, I. - HURAN, Jozef - SICILIANO, P. - CAPONE, S. - SPIESS, L. - REHACEK, V. The Influence of preparation parameters on NiO thin film properties for gas-sensing application. In *Sensors and Actuators B : Chemical*, 2001, vol. 78, p. 126-132.
Citácie:
1. [1.1] AL-KUHAILI, M.F. - AHMAD, S.H.A. - DURRANI, S.M.A. - FAIZ, M.M. - UL-HAMID, A. In *MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING*. NOV 2015, vol. 39, p. 84-89., WOS
2. [1.1] CHOI, S.W. - JIN, C. In *RSC ADVANCES*. 2015, vol. 5, no. 88, p. 71955-71960., WOS
3. [1.1] GARDUNO-WILCHES, I.A. - RODRIGUEZ-FERNANDEZ, L. - ALONSO, J.C. In *JOURNAL OF ELECTRONIC MATERIALS*. NOV 2015, vol. 44, no. 11, p. 4283-4289., WOS

4. [1.1] KANG, I.K. - REDDY, Y.A.K. - SHIN, Y.B. - LEE, H.C. In *IEEE SENSORS JOURNAL*. DEC 2015, vol. 15, no. 12, p. 7234-7241., WOS
5. [1.1] PRABHU, V.G. - SHAJIRA, P.S. - LAKSHMI, N. - BUSHIRI, M.J. In *JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS*. DEC 2015, vol. 87, p. 238-243., WOS
6. [1.1] SONG, X.W. - DONG, G.B. - GAO, F.Y. - XIAO, Y. - LIU, Q.R. - DIAO, X.G. In *VACUUM*. JAN 2015, vol. 111, p. 48-54., WOS
7. [1.1] THUBSUANG, U. - SUKANAN, D. - SAHASITHIWAT, S. - WONGKASEMJIT, S. - CHAISUWAN, T. In *MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS*. OCT 2015, vol. 200, p. 67-77., WOS
- ADCA119 HRIVNÁK, Ľubomír. Simple calculations of energy levels in quantum wells of lattice-matched semiconductors with nonparabolic bands. In *Journal of Applied Physics*, 1992, vol. 71, p. 4370-4374. (1.731 - IF1991). (1992 - Current Contents, SCOPUS). ISSN 0021-8979.
Citácie:
1. [1.1] ZHANG, L. - SHI, J.J. - LIU, X.L. In *SUPERLATTICES AND MICROSTRUCTURES*. JUL 2015, vol. 83, p. 131-146., WOS
2. [1.1] ZHANG, L. In *INTERNATIONAL JOURNAL OF MODERN PHYSICS B*. FEB 20 2015, vol. 29, no. 5., WOS
- ADCA120 HUDEC, Boris - PASKALEVA, A. - JANČOVIČ, Peter - DÉRER, Ján - FEDOR, Ján - ROSOVÁ, Alica - DOBROČKA, Edmund - FRÖHLICH, Karol. Resistive switching in TiO₂-based metal-insulator-metal structures with Al₂O₃ barrier layer at the metal/dielectric interface. In *Thin Solid Films*, 2014, vol. 563, p. 10-14. (1.867 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0040-6090.
Citácie:
1. [1.1] CASTAN, H. - GARCIA, H. - DUENAS, S. - BAILON, L. - MIRANDA, E. - KUKLI, K. - KEMELL, M. - RITALA, M. - LESKELA, M. In *THIN SOLID FILMS*. SEP 30 2015, vol. 591, A, p. 55-59., WOS
2. [1.1] LIU, P. - LOU, W.Z. - DAI, X.M. - LU, Y.F. In *2015 IEEE 10th International Conference on Nano/Micro Engineered and Molecular Systems (NEMS)*. 2015, p. 585-588., WOS
3. [1.2] Liu, P., Lou, W., Lu, Y., Feng, X. *Key Engineering Materials* 645, (2015) 572-576, SCOPUS
- ADCA121 HUDEC, Boris - HUŠEKOVÁ, Kristína - ROSOVÁ, Alica - ŠOLTÝS, Ján - RAMMULA, R. - KASIKOV, A. - UUSTARE, T. - MICUŠÍK, Matej - OMASTOVÁ, Mária - AARIK, J. - FRÖHLICH, Karol. Impact of plasma treatment on electrical properties of TiO₂/RuO₂ based DRAM capacitor. In *Journal of Physics D: Applied Physics*, 2013, vol. 46, 385304. (2.528 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0022-3727.
Citácie:
1. [1.1] LUO, W.B. - CHOU, S.L. - WANG, J.Z. - KANG, Y.M. - ZHAI, Y.C. - LIU, H.K. In *CHEMICAL COMMUNICATIONS*. 2015, vol. 51, no. 39, p. 8269-8272., WOS
2. [1.1] SEOK, J. - RYU, K.Y. - LEE, J.A. - JEONG, I. - LEE, N.S. - BAIK, J.M. - KIM, J.G. - KO, M.J. - KIM, K. - KIM, M.H. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*. 2015, vol. 17, no. 5, p. 3004-3008., WOS
- ADCA122 HUDEC, Boris - HUŠEKOVÁ, Kristína - DOBROČKA, Edmund - AARIK, J. - RAMMULA, R. - KASIKOV, A. - TARRE, A. - VINCZE, A. - FRÖHLICH, Karol. Atomic layer deposition grown metal-insulator-metal capacitors with RuO₂ electrodes and Al-doped rutile TiO₂ dielectric layer. In *Journal of Vacuum Science and Technology B*, 2011, vol. 29, 01AC09. (1.268 - IF2010). (2011 - Current Contents). ISSN 1071-1023.
Citácie:
1. [1.1] DONG, W. - HU, W.B. - BERLIE, A. - LAU, K. - CHEN, H. - WITHERS, R.L. - LIU, Y. In *ACS APPLIED MATERIALS & INTERFACES*. NOV 18 2015, vol. 7, no. 45, p. 25321-25325., WOS
- ADCA123 HURAN, Jozef - HRUBČÍN, Ladislav - KOBZEV, A.P. - LIDAY, J. Properties of amorphous silicon carbide films prepared by PECVD technology. In *Vacuum*, 1996, vol. 47, p. 1223-1225. (1996 - Current Contents).
Citácie:
1. [1.1] CHENG, C.H. - LIN, G.R. In *2014 CONFERENCE ON LASERS AND ELECTRO-OPTICS (CLEO)*. 2014., WOS
2. [1.1] CHENG, C.H. - LIN, Y.H. - CHEN, T.H. - CHEN, H.Y. - CHI, Y.C. - LEEB, C.K. - WUA, C.I. - LIN, G.R. In *Scientific Reports*. NOV 12 2015, vol. 5., WOS
3. [1.1] CHENG, C.H. - WU, C.L. - LIN, Y.H. - YAN, W.L. - SHIH, M.H. - CHANG, J.H. - WU, C.I. - LEE, C.K. - LIN, G.R. In *JOURNAL OF MATERIALS CHEMISTRY C*. 2015, vol. 3, no. 39, p. 10164-10176., WOS
- ADCA124 HURAN, Jozef - ZAIKO, Bohumír - BOHÁČEK, Pavol - SHVETSOV, V.N. - KOBZEV, A.P. Study of wide band gap nanocrystalline silicon carbide films for radiation imaging detectors. In

- Nuclear Instruments and Methods in Physics Research A. Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, vol. 633, p. S75-S77. (1.142 - IF2010). (2011 - Current Contents, WOS, SCOPUS). ISSN 0168-9002.
- Citácie:
- [1.1] JHA, H.S. - AGARWAL, P. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*. MAR 2015, vol. 26, no. 3, p. 1381-1388., WOS
 - [1.2] Wan, M., Wang, W., Peng, X., Zou, J. *Zhenkong Kexue yu Jishu Xuebao/Journal of Vacuum Science and Technology* 35 (2015), pp. 424-433, SCOPUS
- ADCA125 HURAN, Jozef - VALOVIČ, Albín - BOHÁČEK, Pavol - SHVETSOV, V.N. - KOBZEV, A.P. - BORZAKOV, S.B. - KLEINOVÁ, Angela - SEKÁČOVÁ, Mária - ARBET, Juraj - SASINKOVÁ, Vlasta. The effect of neutron irradiation on the properties of SiC and SiC(N) layer prepared by plasma enhanced chemical vapor deposition. In *Applied Surface Science*, 2013, vol. 269, p. 88-91. (2.112 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0169-4332.
- Citácie:
- [1.1] WANG, B. - EICHFIELD, S.M. - WANG, D. - ROBINSON, J.A. - HAQUE, M.A. In *NANOSCALE*. 2015, vol. 7, no. 34, p. 14489-14495., WOS
- ADCA126 HURAN, Jozef - HOTOVÝ, I. - KOBZEV, A.P. - BALALYKIN, N.I. Further studies of N doped a-SiC:H films deposited by PECVD and annealed by pulse electron beam. In *Thin Solid Films : International Journal on the Science and Technology of Thin and Thick Films*, 2004, vol. 459, p. 149-151. ISSN 0040-6090.
- Citácie:
- [1.1] PERI, B. - BORAH, B. - DASH, R.K. In *BULLETIN OF MATERIALS SCIENCE*. AUG 2015, vol. 38, no. 4, p. 1105-1112., WOS
- ADCA127 HURD, F. - SBORCHIA, C. - SALPIETRO, E. - DUGLUE, D. - KEEFE, C. - BATES, S. - PESENTI, P. - DELLA CORTE, A. - BRUZZONE, P.L. - POLÁK, Milan. Design and manufacture of a full size joint sample (FSJS) for the qualification of the poloidal field (PF) insert coil. In *IEEE Transactions on Applied Superconductivity*, vol. 15, 2005, p. 1379-1382.
- Citácie:
- [1.1] YAO, Y. - SONG, Y.T. - WU, H. - HUANG, X.Y. - SHEN, G. - HU, B. - WANG, L. - ZHENG, X.D. In *JOURNAL OF FUSION ENERGY*. AUG 2015, vol. 34, no. 4, p. 802-807., WOS
- ADCA128 HUŠEK, Imrich - KOVÁČ, Pavol - GROVENOR, C.R.M. - GOODSIR, L. Microhardness as a tool for the filament density and metal sheath analysis in MgB₂/Fe/(Cu) wires. In *Superconductor Science and Technology*, 2004, vol. 17, p. 971-976. (2.247 - IF2003). (2004 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
- [1.1] LIN, H. - YAO, C. - ZHANG, H.T. - ZHANG, X.P. - ZHANG, Q.J. - DONG, C.H. - WANG, D.L. - MA, Y.W. In *SCIENTIFIC REPORTS*. JUN 30 2015, vol. 5., WOS
- ADCA129 HUŠEK, Imrich - KOVÁČ, Pavol - JONES, H. Tensile stress applied to NbTi, Nb₃Sn, Bi-2223 and MgB₂ composite superconductors at room temperature. In *Superconductor Science and Technology*. - Bristol : IOP Publishing, 2004, vol. 17, p. 1411-1414. (2.247 - IF2003). (2004 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
- [1.1] XIN, C.J. - WANG, X.Z. - GUAN, M.Z. - ZHOU, Y.H. In *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM*. FEB 2015, vol. 28, no. 2, p. 437-442., WOS
- ADCA130 HUŠEK, Imrich - KOVÁČ, Pavol - KOPERA, Ľubomír. Study of BSCCO-core density in multicore Ag sheathed tapes by microhardness profiles. In *Superconductor Science and Technology*, 1996, vol. 9, p. 1066. (1.493 - IF1995). (1996 - Current Contents, SCOPUS). ISSN 0953-2048.
- Citácie:
- [1.1] YAO, C. - LIN, H. - ZHANG, Q.J. - ZHANG, X.P. - WANG, D.L. - DONG, C.H. - MA, Y.W. - AWAJI, S. - WATANABE, K. In *JOURNAL OF APPLIED PHYSICS*. NOV 28 2015, vol. 118, no. 20., WOS
- ADCA131 HUŠEK, Imrich - KOVÁČ, Pavol - ROSOVÁ, Alica - MELIŠEK, Tibor - PACHLA, W. - HAIN, Miroslav. Advanced MgB₂ wire made by internal magnesium diffusion process. In *Journal of Alloys and Compounds*, 2014, vol. 588, p. 366-369. (2.726 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0925-8388.
- Citácie:
- [1.1] MAEDA, M. - UCHIYAMA, D. - AL HOSSAIN, M.S. - MA, Z.Q. - SHAHABUDDIN, M. - KIM, J.H. In *JOURNAL OF ALLOYS AND COMPOUNDS*. JUL 5 2015, vol. 636, p. 29-33., WOS
- ADCA132 HUŠEK, Imrich - KOVÁČ, Pavol - MELIŠEK, Tibor - KOPERA, Ľubomír. Thermally stabilized MgB₂ composite wires with different barriers. In *Cryogenics*, 2011, vol. 51, p. 550-554. (1.130 - IF2010). (2011 - Current Contents). ISSN 0011-2275.
- Citácie:

- ADCA133 *1. [1.2] Rodrigues, D., Antunes, L.H.M., Manesco, A.L.R., Moraes, E.M., Da Silva, L.B.S. IEEE Transactions on Applied Superconductivity 25 (2015), 6200705, SCOPUS*
HUŠEKOVÁ, Kristína - HUŠEK, Imrich - KOVÁČ, Pavol - KULICH, Miloslav - DOBROČKA, Edmund - ŠTRBÍK, Vladimír. Properties of MgB₂ superconductor chemically treated by acetic acid. In Physica C, 2010, vol. 470, p. 331-335. (0.723 - IF2009). (2010 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.
 Citácie:
- ADCA134 *1. [1.1] OWOLABI, T.O. - AKANDE, K.O. - OLATUNJI, S.O. In JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM. JAN 2015, vol. 28, no. 1, p. 75-81., WOS*
HUŠEKOVÁ, Kristína - DOBROČKA, Edmund - ROSOVÁ, Alica - ŠOLTÝS, Ján - ŠATKA, A. - FILLOT, F. - FRÖHLICH, Karol. Growth of RuO₂ thin films by liquid injection atomic layer deposition. In Thin Solid Films, 2010, vol. 518, p. 4701-4704. (1.727 - IF2009). (2010 - Current Contents). ISSN 0040-6090.
 Citácie:
- ADCA135 *1. [1.1] GREGORCZYK, K.E. - KOZEN, A.C. - CHEN, X.Y. - SCHROEDER, M.A. - NOKED, M. - CAO, A.Y. - HU, L.B. - RUBLOFF, G.W. In ACS NANO. JAN 2015, vol. 9, no. 1, p. 464-473., WOS*
 CHAND, S. - KAUSHAL, P. - OSVALD, Jozef. Numerical simulation study of current-voltage characteristic of a Schottky diode with inverse doped surface layer. In Materials science in semiconductor processing, 2013, vol. 16, p. 454-460. (1.338 - IF2012). (2013 - Current Contents). ISSN 1369-8001.
 Citácie:
- ADCA136 *1. [1.1] KOSEC, G. - TROBEC, R. In ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS. JAN 2015, vol. 50, p. 69-75., WOS*
2. [1.1] VARMA, T. - SHARMA, S. - PERIASAMY, C. - BOOLCHANDANI, D. In JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS. DEC 2015, vol. 10, no. 6, p. 761-765., WOS
CHROMIK, Štefan - ŠPANKOVÁ, Marianna - VÁVRA, Ivo - LIDAY, J. - VOGRINČIČ, P. - LOBOTKA, Peter. Preparation and structural properties of MgO films on GaAs substrate. In Applied Surface Science, 2008, vol. 254, p. 3635-3637. (1.410 - IF2007). (2008 - Current Contents). ISSN 0169-4332.
 Citácie:
- ADCA137 *1. [1.1] SARKAR, A. - WANG, S.B. - GRAFENEDER, W. - ARNDT, M. - KOCH, R. In NANOTECHNOLOGY. APR 24 2015, vol. 26, no. 16., WOS*
CHROMIK, Štefan - HURAN, Jozef - ŠTRBÍK, Vladimír - ŠPANKOVÁ, Marianna - VÁVRA, Ivo - BOHNE, W. - ROHRICH, J. - STRUB, E. - KOVÁČ, P. - STANČEK, S. Nanogranular MgB₂ thin films on SiC buffered Si substrates prepared by an in situ method. In Superconductor Science and Technology, 2006, vol. 19, p. 577-580. (1.896 - IF2005). (2006 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
 Citácie:
- ADCA138 *1. [1.1] PUTRI, W.B.K. - KANG, B. - DUONG, P.V. - KANG, W.N. In THIN SOLID FILMS. SEP 1 2015, vol. 590, p. 80-83., WOS*
2. [1.2] Ranot, M., Duong, P.V., Bhardwaj, A., Kang, W.N. Progress in Superconductivity and Cryogenics (PSAC) 17 (2015), pp. 1-17, SCOPUS
 IAVARONE, M. - MOORE, S.A. - FEDOR, Ján - CIOCYS, S.T. - KARAPETROV, Goran - PEARSON, J.E. - NOVOSAD, V. - BADER, S.D. Visualizing domain wall and reverse domain superconductivity. In Nature Communications, 2014, vol. 5, p. 4766. (10.742 - IF2013). (2014 - Current Contents). ISSN 2041-1723.
 Citácie:
- ADCA139 *1. [1.1] DEL VALLE, J. - GOMEZ, A. - GONZALEZ, E.M. - OSORIO, M.R. - GRANADOS, D. - VICENT, J.L. In SCIENTIFIC REPORTS. OCT 15 2015, vol. 5., WOS*
2. [1.1] HASSAN, M.U. - WIMBUSH, S.C. In PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE. SEP 2015, vol. 212, no. 9, p. 2037-2043., WOS
3. [1.1] LI, Z.G. - WANG, W.K. - ZHANG, L. - YANG, Z.R. - TIAN, M.L. - ZHANG, Y.H. In SCIENTIFIC REPORTS. DEC 18 2015, vol. 5., WOS
4. [1.1] STAMOPOULOS, D. - ARISTOMENOPOULOU, E. In SCIENTIFIC REPORTS. AUG 26 2015, vol. 5., WOS
 IAVARONE, M. - KARAPETROV, Goran - FEDOR, Ján - ROSENMAN, D. - NISHIZAKI, T. - KOBAYASHI, N. The local effect of magnetic impurities on superconductivity in Co_xNbSe₂ and Mn_xNbSe₂ single crystals. In Journal of Physics: Condensed Matter, 2010, vol. 22, 015501. (1.964 - IF2009). (2010 - Current Contents, SCOPUS). ISSN 0953-8984.
 Citácie:
- 1. [1.1] HOUBEN, K. - MENENDEZ, E. - ROMERO, C.P. - TREKELS, M. - PICOT, T. - VANTOMME, A. - TEMST, K. - VAN BAE, M.J. In JOURNAL OF ALLOYS AND COMPOUNDS.*

- JUL 15 2015, vol. 637, p. 509-516., WOS*
 2. [1.1] XU, J. - LIANG, J.Q. - LI, H.P. - LI, C.S. - LIU, X.J. - MENG, J. In *ACTA PHYSICA SINICA. OCT 20 2015, vol. 64, no. 20., WOS*
 3. [1.1] XU, J. - TANG, H. - SHI, Q. - LI, C. In *CHALCOGENIDE LETTERS. JAN 2015, vol. 12, no. 1, p. 1-10., WOS*
 4. [1.1] ZITKO, R. In *PHYSICAL REVIEW B. APR 9 2015, vol. 91, no. 16., WOS*
- ADCA140 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.*
 Citácie:
 1. [1.1] ARISTOMENOPOULOU, E. - STAMOPOULOS, D. In *JOURNAL OF APPLIED PHYSICS. AUG 14 2015, vol. 118, no. 6., WOS*
- ADCA141 IHARAGI, T. - GENDIAR, Andrej - UEDA, H. - NISHINO, T. Phase transition of the ising model on a hyperbolic lattice. In *Journal of the Physical Society of Japan, 2010, vol. 79, art. no. 104001. (2.572 - IF2009). (2010 - Current Contents). ISSN 0031-9015.*
 Citácie:
 1. [1.1] BENEDETTI, D. In *JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT. JAN 2015., WOS*
- ADCA142 IŽÁK, T. - BABCHENKO, Oleg - JIRÁSEK, V. - VANKO, Gabriel - VALLO, Martin - VOJS, M. - KROMKA, A. Selective area deposition of diamond films on AlGaIn/GaN heterostructures. In *Physica status solidi B, 2014, vol. 251, p. 2574-2580. (1.605 - IF2013). (2014 - Current Contents). ISSN 0370-1972.*
 Citácie:
 1. [1.1] SHAHIN, D.I. - ANDERSON, T.J. - FEYGELSON, T.I. - PATE, B.B. - WHEELER, V.D. - GREENLEE, J.D. - HITE, J.K. - TADJER, M.J. - CHRISTOU, A. - HOBART, K.D. In *DIAMOND AND RELATED MATERIALS. OCT 2015, vol. 59, p. 116-121., WOS*
- ADCA143 JELÍNEK, J. - TIMORANSKÝ, Z. - ŽÍŽEK, F. - PIEL, H. - POLÁK, Milan - CHOVANEC, František - MOZOLA, Pavol - JANŠÁK, Lubomil - KVITKOVIČ, Jozef - UŠÁK, Pavol. Test results of 14 kVA superconducting transformer with Bi-2223/Ag windings. In *IEEE Transactions on Applied Superconductivity, 2003, vol. 13, p. 2310-2313.*
 Citácie:
 1. [1.1] GRZESIK, B. - STEPIEN, M. In *11TH EUROPEAN CONFERENCE ON APPLIED SUPERCONDUCTIVITY (EUCAS2013), PTS 1-4. 2014, vol. 507., WOS*
- ADCA144 JERGEL, Matej - ŠIFFALOVÍČ, Peter - VĚGSO, Karol - MAJKOVÁ, Eva - KORYTÁR, Dušan - ZÁPRAŽNÝ, Zdenko - PERLICH, J. - ZIBERI, B. - CORNEJO, M. - VAGOVIČ, P. Extreme x-ray beam compression for a high-resolution table-top grazing-incidence small-angle x-ray scattering setup. In *Journal of Applied Crystallography, 2013, vol. 46, p. 1544-1550. (3.343 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0021-8898.*
 Citácie:
 1. [1.1] FEWSTER, Paul F. *INSTRUMENTS FOR MEASURING SCATTERING PATTERNS. In X-RAY SCATTERING FROM SEMICONDUCTORS AND OTHER MATERIALS, 3RD EDITION, 2015, pp. 243-320., WOS*
 2. [1.1] ZHENG, Nan - YI, Zhiyong - LI, Zhenzhen - CHEN, Ran - LAI, Yuqing - MEN, Yongfeng. Achieving grazing-incidence ultra-small-angle X-ray scattering in a laboratory setup. In *JOURNAL OF APPLIED CRYSTALLOGRAPHY. APR 2015, vol. 48, 2, p. 608-612., WOS*
- ADCA145 JERGEL, Milan - CONDE-GALLARDO, A. - GUAJARDO, C.F. - ŠTRBÍK, Vladimír. Tl-based superconductors for high-current, high-field applications. In *Superconductor Science and Technology, 1996, vol. 9, p. 427. (1.493 - IF1995). (1996 - Current Contents, SCOPUS). ISSN 0953-2048.*
 Citácie:
 1. [1.1] KHAN, N.A. - ABBAS, S.Q. - KHAN, M.N. In *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM. JUL 2015, vol. 28, no. 7, p. 2009-2015., WOS*
 2. [1.1] SHIPRA, R. - IDROBO, J.C. - SEFAT, A.S. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. NOV 2015, vol. 28, no. 11., WOS*
- ADCA146 JERGEL, Milan - STEVENSON, R. Static heat transfer to liquid helium in open pools and narrow channels. In *International Journal of Heat and Mass Transfer, 1971, vol. 14, p. 2099.*
 Citácie:
 1. [1.2] Kolev, N.I. In *Multiphase Flow Dynamics 5: Nuclear Thermal Hydraulics. ISBN: 978-331915156-4. Springer International Publ. 2015. P. 1-14, SCOPUS*
- ADCA147 JURKOVIČ, Michal - GREGUŠOVÁ, Dagmar - PALANKOVSKI, V. - HAŠČÍK, Štefan - BLAHO, Michal - ČIČO, Karol - FRÖHLICH, Karol - CARLIN, J.-F. - GRANDJEAN, N. - KUZMÍK, Ján. Schottky-barrier normally off GaN/InAlN/AlN/GaN HEMT with selectively etched access region. In

IEEE Electron Device Letters, 2013, vol. 34, p. 432-434. (2.789 - IF2012). (2013 - Current Contents). ISSN 0741-3106.

Citácie:

1. [1.1] CHIU, H.C. - WU, C.H. - CHI, J.F. - CHYI, J.I. - LEE, G.Y. In *MICROELECTRONICS RELIABILITY*. JAN 2015, vol. 55, no. 1, p. 48-51., WOS

2. [1.1] DIMITRIJEV, S. - HAN, J.S. - MOGHADAM, H.A. - AMINBEIDOKHTI, A. In *MRS BULLETIN*. MAY 2015, vol. 40, no. 5, p. 399-405., WOS

3. [1.1] HUANG, H.L. - LIANG, Y.C. In *SOLID-STATE ELECTRONICS*. DEC 2015, vol. 114, p. 148-154., WOS

4. [1.1] JEBALIN, B.K. - REKH, A.S. - PRAJOON, P. - GODWINRAJ, D. - KUMAR, N.M. - NIRMAL, D. In *SUPERLATTICES AND MICROSTRUCTURES*. FEB 2015, vol. 78, p. 210-223., WOS

5. [1.1] LEE, G.Y. - TU, P.T. - CHYI, J.I. In *APPLIED PHYSICS EXPRESS*. JUN 2015, vol. 8, no. 6., WOS

6. [1.1] LEE, K.B. - GUINEY, I. - JIANG, S. - ZAIDI, Z.H. - QIAN, H.T. - WALLIS, D.J. - UREN, M.J. - KUBALL, M. - HUMPHREYS, C.J. - HOUSTON, P.A. In *APPLIED PHYSICS EXPRESS*. MAR 2015, vol. 8, no. 3., WOS

7. [1.1] NAGY, L. - STOPJAKOVA, V. - SATKA, A. In *2014 INTERNATIONAL CONFERENCE ON APPLIED ELECTRONICS (AE)*. 2014, p. 225-228., WOS

8. [1.1] ZAIDI, Z.H. - LEE, K.B. - GUINEY, I. - QIAN, H. - JIANG, S. - WALLIS, D.J. - HUMPHREYS, C.J. - HOUSTON, P.A. In *SEMICONDUCTOR SCIENCE AND TECHNOLOGY*. OCT 2015, vol. 30, no. 10., WOS

9. [1.2] Nagy, L., Stopjaková, V., Šatka, A. *Proceedings - 2015 IEEE 18th International Symposium on Design and Diagnostics of Electronic Circuits and Systems, DDECS 2015* 7195673, pp. 83-86, SCOPUS

ADCA148 KABÁT, Dušan - CESNAK, Ladislav - KOKAVEC, Ján. Optimisation of inner-notch-corrected highly homogeneous superconducting solenoids and their comparison with other coil configuration. In *Journal of Physics E : Scientific Instruments*, 1979, vol. 12, p. 652-657. (1979 - Current Contents). ISSN 0022-3735.

Citácie:

1. [1.1] KRUBER, S. - FARRHER, G.D. - ANOARDO, E. In *JOURNAL OF MAGNETIC RESONANCE*. OCT 2015, vol. 259, p. 216-224., WOS

ADCA149 KAČMARČÍK, Jozef - PRIBULOVÁ, Zuzana - PALUCHOVÁ, Viktória - SZABÓ, Pavol - HUSANÍKOVÁ, Petra - KARAPETROV, Goran - SAMUELY, Peter. Heat capacity of single-crystal Cu_xTiSe_2 superconductors. In *Physical Review B*, 2013, vol. 88, no. 2, art. no. R020507. (3.767 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 1550-235X.

Citácie:

1. [1.1] LUNA, Katherine - WU, Phillip M. - CHEN, Justin S. - MOROSAN, Emilia - BEASLEY, Malcolm R. *Point-contact tunneling spectroscopy measurement of Cu_xTiSe_2 : Disorder-enhanced Coulomb effects*. In *PHYSICAL REVIEW B*. ISSN 1098-0121, 2015, vol. 91, no. 9, art. no. 094509., WOS

ADCA150 KADLEČÍKOVÁ, M. - BREZA, J. - JESENÁK, K. - PASTORKOVÁ, K. - LUPTÁKOVÁ, V. - KOLMAČKA, M. - VOJÁČKOVÁ, A. - MICHÁLKA, M. - VÁVRA, Ivo - KRIŽANOVÁ, Zuzana. The growth of carbon nanotubes on montmorillonite and zeolite (clinoptilolite). In *Applied Surface Science*, 2008, vol. 254, p. 5073-5079. (1.410 - IF2007). (2008 - Current Contents). ISSN 0169-4332.

Citácie:

1. [1.1] ESMIZADEH, E. - YOUSEFI, A.A. - NADERI, G. - MILONE, C. In *APPLIED CLAY SCIENCE*. DEC 2015, vol. 118, p. 248-257., WOS

ADCA151 KALLEL, N. - FRÖHLICH, Karol - PIGNARD, S. - OUMEZZINE, M. - VINCENT, H. Structure, magnetic and magnetoresistive properties of $La_{0.7}Sr_{0.3}Mn_{1-x}Sn_xO_3$ samples ($0 = x = 0.20$). In *Journal of Alloys and Compounds*, 2005, vol. 399, p. 20-26. ISSN 0925-8388.

Citácie:

1. [1.1] DHAHRI, A. - JEMMALI, M. - DHAHRI, E. - HLIL, E.K. In *DALTON TRANSACTIONS*. 2015, vol. 44, no. 12, p. 5620-5627., WOS

2. [1.1] KUMAR, V.P. - DAYAL, V. - HADIMANI, R.L. - BHOWMIK, R.N. - JILES, D.C. In *JOURNAL OF MATERIALS SCIENCE*. MAY 2015, vol. 50, no. 10, p. 3562-3575., WOS

ADCA152 KARAPETROV, Goran - FEDOR, Ján - IAVARONNE, M. - ROSENMANN, D. - KWOK, W.K. Direct observation of geometrical phase transitions in mesoscopic superconductors by scanning tunneling microscopy. In *Physical Review Letters*, 2005, vol. 95, p. 167002. (7.218 - IF2004). (2005 - Current Contents, WOS, SCOPUS). ISSN 0031-9007.

Citácie:

1. [1.1] KUMAR, S. - TOMY, C.V. - BALAKRISHNAN, G. - PAUL, D.M. - GROVER, A.K. In

- JOURNAL OF PHYSICS-CONDENSED MATTER. JUL 29 2015, vol. 27, no. 29., WOS*
 2. [1.1] MEL'NIKOV, A.S. - SAMOKHVALOV, A.V. - VADIMOV, V.L. In *JETP LETTERS. DEC 2015, vol. 102, no. 11, p. 775-783., WOS*
- ADCA153 KARAPETROV, Goran - MILOSEVIC, M.V. - IAVARONE, M. - FEDOR, Ján - BELKIN, A. - NOVOSAD, V. - PEETERS, F.M. Transverse instabilities of multiple vortex chains in magnetically coupled NbSe₂/permalloy superconductor/ferromagnet bilayers. In *Physical Review B*, 2009, vol. 80, art. no. 180506(R. ISSN 1550-235X.
 Citácie:
 1. [1.1] ARISTOMENOPOULOU, E. - STAMOPOULOS, D. In *JOURNAL OF APPLIED PHYSICS. AUG 14 2015, vol. 118, no. 6., WOS*
- ADCA154 KAUSHAL, P. - CHAND, S. - OSVALD, Jozef. Current-voltage characteristics of Schottky diode simulated using semiconductor device equations. In *International Journal of Electronics*, 2013, vol. 100, p. 686-698. (0.509 - IF2012). (2013 - Current Contents). ISSN 0020-7217.
 Citácie:
 1. [1.1] ANDREI, G. - SIMA, I. - ANDREI, C. In *PROCEEDINGS OF THE 2015 7TH INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI). 2015.ECAI 2015 7301251, pp. P49-P52, WOS*
 2. [1.1] AYDIN, H. - TATAROGLU, A. - AL-GHAMDI, A.A. - YAKUPHANOGLU, F. - EL-TANTAWY, F. - FAROOQ, W.A. In *JOURNAL OF ALLOYS AND COMPOUNDS. MAR 15 2015, vol. 625, p. 18-25., WOS*
 3. [1.1] GUZELDIR, B. - SAGLAM, M. - ATES, A. - TURUT, A. In *JOURNAL OF ALLOYS AND COMPOUNDS. APR 5 2015, vol. 627, p. 200-205., WOS*
 4. [1.2] Donarelli, M., Milan, R., Ferroni, M., Faglia, G., Comini, E., Sberveglieri, G., Ponzoni, A., Baratto, C. *Proceedings of the 2015 18th AISEM Annual Conference, AISEM 2015 7066814, SCOPUS*
- ADCA155 KHUNOVÁ, V. - HURST, Joe - JANIGOVÁ, Ivica - ŠMATKO, Vasilij. Plasma treatment of particulate polymer composites for analyses by scanning electron microscopy.2. A study of highly filled polypropylene/calcium carbonate composites. In *Polymer Testing*, 1999, vol. 18, p. 501-509. (0.419 - IF1998). (1999 - Current Contents). ISSN 0142-9418.
 Citácie:
 1. [1.1] CHENG, H.T. - GAO, J. - WANG, G. - SHI, S.Q. - ZHANG, S.B. - CAI, L.P. *Enhancement of mechanical properties of composites made of calcium carbonate modified bamboo fibers and polypropylene. In HOLZFORSCHUNG. ISSN 0018-3830, FEB 2015, vol. 69, no. 2, p. 215-221., WOS*
 2. [1.1] SONG, J. - KWARK, Y.J. - JEONG, Y. *Effect of Sodium Lignosulfonate Treatment on the Dispersion of CaCO₃ in CaCO₃/Polypropylene Composite. In POLYMER-KOREA. ISSN 0379-153X, MAY 2015, vol. 39, no. 3, p. 382-387., WOS*
- ADCA156 KIM, J. H. - KIM, C.H. - PATIL, P. - KVITKOVIČ, Jozef - PAMIDI, S.V. Electrical characteristics of stacks of YBCO tapes in applied magnetic field. In *IEEE Transactions on Applied Superconductivity*, 2011, vol. 21, p. 3230-3233. (1.035 - IF2010). (2011 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.
 Citácie:
 1. [1.2] Dias, D.H.N., Sotelo, G.G., Dias, F.J.M., Rocha, L.M.M., Matins, F.G.R., Sass, F., Polasek, A *IEEE Transactions on Applied Superconductivity 25 (2015), 6945336, SCOPUS*
- ADCA157 KIM, J. H. - KIM, C.H. - IYYANI, G. - KVITKOVIČ, Jozef - PAMIDI, S.V. Transport AC loss measurements in superconducting coils. In *IEEE Transactions on Applied Superconductivity*, 2011, vol. 21, p. 3269-3272. (1.035 - IF2010). (2011 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.
 Citácie:
 1. [1.1] AMARO, N. - SOUC, J. - MURTA-PINA, J. - MARTINS, J. - CEBALLOS, J.M. - GOMORY, F. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS*
 2. [1.1] KARIO, A. - VOJENCIAK, M. - GRILLI, F. - KLING, A. - JUNG, A. - BRAND, J. - KUDYMOW, A. - WILLMS, J. - WALSBURGER, U. - ZERMENO, V. - GOLDBACKER, W. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. FEB 2015, vol. 25, no. 1., WOS*
 3. [1.2] Zhu, J., Chen, X., Yang, W., Fu, Z., Qiu, M., Zheng, X., Liu, W., Fang, J *IEEE Transactions on Applied Superconductivity 25 (2015), 7010009, SCOPUS*
- ADCA158 KOPERA, Ľubomír - KOVÁČ, Pavol - HUŠEK, Imrich. New rolling technique for texturing of Bi(2223)/Ag tapes. In *Superconductor Science and Technology*, 1998, vol. 11, p. 433-436. (2.183 - IF1997). (1998 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
 Citácie:
 1. [1.1] HOSONO, H. - TANABE, K. - TAKAYAMA-MUROMACHI, E. - KAGEYAMA, H. - YAMANAKA, S. - KUMAKURA, H. - NOHARA, M. - HIRAMATSU, H. - FUJITSU, S. In *SCIENCE*

- ADCA159 *AND TECHNOLOGY OF ADVANCED MATERIALS. JUN 2015, vol. 16, no. 3., WOS*
KOPERA, Lubomír - KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor. Rutherford cable made of single-core MgB₂ wires. In Superconductor Science and Technology, 2013, vol. 26, 125007. (2.758 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
 Citácie:
 1. [1.2] *Wesche, R.: Physical Properties of High-Temperature Superconductors. Wiley & Sons, Ltd: 2015. ISBN: 978-9971-5-0683-4., SCOPUS*
- ADCA160 KORDOŠ, Peter - MIKULICS, M. - FOX, A. - GREGUŠOVÁ, Dagmar - ČIČO, Karol - CARLIN, J.-F. - GRANDJEAN, N. - NOVÁK, Jozef - FRÖHLICH, Karol. RF performance of InAlN/GaN HFETs and MOSHFETs with fT x LG up to 21 GHz • μm. In IEEE Electron Devices Letters, 2010, vol. 31, p. 180-182. (2.605 - IF2009). (2010 - Current Contents). ISSN 0741-3106.
 Citácie:
 1. [1.1] *LEE, C.S. - HSU, W.C. - CHOU, B.Y. - LIU, H.Y. - YANG, C.L. - SUN, W.C. - WEI, S.Y. - YU, S.M. - WU, C.L. In IEEE TRANSACTIONS ON ELECTRON DEVICES. MAY 2015, vol. 62, no. 5, p. 1460-1466., WOS*
- ADCA161 KORDOŠ, Peter - STOKLAS, Roman - GREGUŠOVÁ, Dagmar - GAŽI, Štefan - NOVÁK, Jozef. Trapping effects in Al₂O₃/AlGaIn/GaN metal-oxide-semiconductor heterostructure field-effect transistor investigated by temperature dependent conductance measurement. In Applied Physics Letters, 2010, vol. 96, 013505. (3.554 - IF2009). (2010 - Current Contents, SCOPUS). ISSN 0003-6951.
 Citácie:
 1. [1.1] *FANG, Y.L. - FENG, Z.H. - LI, C.M. - YIN, J.Y. - ZHANG, Z.R. - DUN, S.B. - LV, Y.J. - GUO, J.C. - CAI, S.J. In SUPERLATTICES AND MICROSTRUCTURES. JUN 2015, vol. 82, p. 201-206., WOS*
 2. [1.1] *RAMANAN, N. - LEE, B. - MISRA, V. In IEEE TRANSACTIONS ON ELECTRON DEVICES. FEB 2015, vol. 62, no. 2, p. 546-553., WOS*
 3. [1.1] *ZHANG, P. - ZHAO, S.L. - XUE, J.S. - ZHU, J.J. - MA, X.H. - ZHANG, J.C. - HAO, Y. In CHINESE PHYSICS B. DEC 2015, vol. 24, no. 12., WOS*
- ADCA162 KORDOŠ, Peter - GREGUŠOVÁ, Dagmar - STOKLAS, Roman - GAŽI, Štefan - NOVÁK, Jozef. Transport properties of AlGaIn/GaN metal-oxide-semiconductor heterostructure field-effect transistors with Al₂O₃ different thickness. In Solid-State Electronics, 2008, vol. 52, p. 973-979. (1.260 - IF2007). ISSN 0038-1101.
 Citácie:
 1. [1.1] *FENG, Q. - DU, K. - DAI, B. - DONG, L. - FENG, Q. In CHINESE PHYSICS LETTERS. JAN 2015, vol. 32, no. 1., WOS*
 2. [1.1] *WINZER, A. - SZABO, N. - OCKER, J. - HENTSCHEL, R. - SCHUSTER, M. - SCHUBERT, F. - GARTNER, J. - WACHOWIAK, A. - MIKOLAJICK, T. In JOURNAL OF APPLIED PHYSICS. SEP 28 2015, vol. 118, no. 12., WOS*
- ADCA163 KORDOŠ, Peter - DONOVAL, D. - FLOROVIČ, M. - KOVÁČ, Ján - GREGUŠOVÁ, Dagmar. Investigation of trap effects in AlGaIn/GaN field-effect transistors by temperature dependent threshold voltage analysis. In Applied Physics Letters, 2008, vol. 92, 152113. (3.596 - IF2007). (2008 - Current Contents, WOS, SCOPUS). ISSN 0003-6951.
 Citácie:
 1. [1.1] *LIU, C. - WANG, H.X. - YANG, S. - LU, Y.Y. - LIU, S.H. - TANG, Z.K. - JIANG, Q.M. - HUANG, S. - CHEN, K.J. In 2015 IEEE 27TH INTERNATIONAL SYMPOSIUM ON POWER SEMICONDUCTOR DEVICES & IC'S (ISPSD). 2015, p. 213-216., WOS*
 2. [1.1] *LIU, C. - YANG, S. - LIU, S.H. - TANG, Z.K. - WANG, H.X. - JIANG, Q.M. - CHEN, K.J. In IEEE ELECTRON DEVICE LETTERS. APR 2015, vol. 36, no. 4, p. 318-320., WOS*
- ADCA164 KORDOŠ, Peter - BERNÁT, J. - MARSO, M. - LUTH, H. - RAMPAZZO, F. - TAMIAZZO, G. - PIEROBON, R. - MENEGHESSO, G. Influence of gate-leakage current on drain current collapse of unpassivated GaN/AlGaIn/GaN high electron mobility transistors. In Applied Physics Letters, vol. 86, 2005, p. 253511. ISSN 0003-6951.
 Citácie:
 1. [1.1] *HUANG, T.D. - MALMROS, A. - BERGSTEN, J. - GUSTAFSSON, S. - AXELSSON, O. - THORSELL, M. - RORSMAN, N. In IEEE ELECTRON DEVICE LETTERS. JUN 2015, vol. 36, no. 6, p. 537-539., WOS*
 2. [1.1] *TANAKA, K. - MORITA, T. - UMEDA, H. - KANEKO, S. - KURODA, M. - IKOSHI, A. - YAMAGIWA, H. - OKITA, H. - HIKITA, M. - YANAGIHARA, M. - UEMOTO, Y. - TAKAHASHI, S. - UENO, H. - ISHIDA, H. - ISHIDA, M. - UEDA, T. In APPLIED PHYSICS LETTERS. OCT 19 2015, vol. 107, no. 16., WOS*
- ADCA165 KORDOŠ, Peter - KÚDELA, Róbert - GREGUŠOVÁ, Dagmar - DONOVAL, D. The effect of passivation on the performance of AlGaIn/GaN heterostructure field-effect transistors. In Semiconductor Science and Technology. - Bristol : Institute of Physics, 2006, vol. 21, p. 1592-1596.

(2006 - Current Contents). ISSN 0268-1242.

Citácie:

1. [1.1] JABLI, F. - ZAIDI, M.A. - GASSOUMI, M. - MOSBAHI, H. - CHARFEDDINE, M. - ALHARBI, T. - MAAREF, H. In *JOURNAL OF ALLOYS AND COMPOUNDS*. NOV 25 2015, vol. 650, p. 533-536., WOS

2. [1.1] SINGH, S.P. - LIU, Y. - NGOO, Y.J. - KYAW, L.M. - BERA, M.K. - DOLMANAN, S.B. - TRIPATHY, S. - CHOR, E.F. In *JOURNAL OF PHYSICS D-APPLIED PHYSICS*. SEP 16 2015, vol. 48, no. 36., WOS

3. [1.1] ZHANG, B.L. - LI, H. - ZHANG, X.J. - LUO, Y. - WANG, Q.P. - SONG, A.M. In *APPLIED PHYSICS LETTERS*. MAR 2 2015, vol. 106, no. 9., WOS

ADCA166

KORDOŠ, Peter - HEIDELBERG, G. - BERNÁT, J. - FOX, A. - MARSO, M. - LUTH, H.

High-power SiO₂/AlGaIn/GaN metal-insulator-semiconductor heterostructure field-effect transistors. In *Applied Physics Letters*, 2005, vol. 87, p. 143501-143504. (4.308 - IF2004). (2005 - Current Contents, SCOPUS). ISSN 0003-6951.

Citácie:

1. [1.1] KO, P.S. - PARK, K.S. - YOON, Y.C. - SHEEN, M.H. - KIM, S.D. In *THIN SOLID FILMS*. AUG 31 2015, vol. 589, p. 838-843., WOS

2. [1.1] LEE, F.C. In *GAN TRANSISTORS FOR EFFICIENT POWER CONVERSION, 2ND EDITION*. 2015, p. 1-18., WOS

3. [1.1] LI, L. - XU, Y.G. - WANG, Q.P. - NAKAMURA, R. - JIANG, Y. - AO, J.P. In *SEMICONDUCTOR SCIENCE AND TECHNOLOGY*. JAN 2015, vol. 30, no. 1., WOS

4. [1.1] LI, X.D. - ZHANG, W.H. - FU, M.D. - ZHANG, J.C. - JIANG, H.Q. - GUO, Z.X. - ZOU, Y. - JIANG, R.Y. - SHI, Z.C. - HAO, Y. In *IEICE ELECTRONICS EXPRESS*. OCT 25 2015, vol. 12, no. 20., WOS

5. [1.1] LIU, X.Y. - ZHAO, S.X. - ZHANG, L.Q. - HUANG, H.F. - SHI, J.S. - ZHANG, C.M. - LU, H.L. - WANG, P.F. - ZHANG, D.W. In *NANOSCALE RESEARCH LETTERS*. MAR 4 2015, vol. 10., WOS

6. [1.1] TIEN, C.Y. - KUEI, P.Y. - CHANG, L.B. - HSU, C.P. In *JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY*. JUL 2015, vol. 10, no. 4, p. 1720-1725., WOS

ADCA167

KORDOŠ, Peter - STOKLAS, Roman - GREGUŠOVÁ, Dagmar - NOVÁK, Jozef. Characterization of AlGaIn/GaN metal-oxide-semiconductor field-effect transistors by frequency dependent conductance analysis. In *Applied Physics Letters*, 2009, vol. 94, 223512. (3.726 - IF2008). (2009 - Current Contents, SCOPUS). ISSN 0003-6951.

Citácie:

1. [1.1] FANG, Y.L. - FENG, Z.H. - LI, C.M. - YIN, J.Y. - ZHANG, Z.R. - DUN, S.B. - LV, Y.J. - GUO, J.C. - CAI, S.J. In *SUPERLATTICES AND MICROSTRUCTURES*. JUN 2015, vol. 82, p. 201-206., WOS

2. [1.1] LO NIGRO, R. - FISICHELLA, G. - BATTIATO, S. - GRECO, G. - FIORENZA, P. - ROCCAFORTE, F. - MALANDRINO, G. In *MATERIALS CHEMISTRY AND PHYSICS*. JUL 15 2015, vol. 162, p. 461-468., WOS

3. [1.1] LUO, J. - ZHAO, S.L. - MI, M.H. - HOU, B. - YANG, X.L. - ZHANG, J.C. - MA, X.H. - HAO, Y. In *CHINESE PHYSICS B*. NOV 2015, vol. 24, no. 11., WOS

4. [1.1] MEHARI, S. - GAVRILOV, A. - EIZENBERG, M. - RITTER, D. In *IEEE ELECTRON DEVICE LETTERS*. SEP 2015, vol. 36, no. 9, p. 893-895., WOS

5. [1.1] THAM, W.H. - BERA, L.K. - ANG, D.S. - DOLMANAN, S.B. - BHAT, T.N. - TRIPATHY, S. In *IEEE ELECTRON DEVICE LETTERS*. DEC 2015, vol. 36, no. 12, p. 1291-1294., WOS

6. [1.1] WALLER, W.M. - KARBOYAN, S. - UREN, M.J. - LEE, K.B. - HOUSTON, P.A. - WALLIS, D.J. - GUINEY, I. - HUMPHREYS, C.J. - KUBALL, M. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. AUG 2015, vol. 62, no. 8, p. 2464-2469., WOS

ADCA168

KORDOŠ, Peter - GREGUŠOVÁ, Dagmar - STOKLAS, Roman - ČIČO, Karol - NOVÁK, Jozef. Improved transport properties of Al₂O₃/AlGaIn/GaN metal-oxide-semiconductor heterostructure field-effect transistor. In *Applied Physics Letters*, 2007, vol. 90, 123513. (3.977 - IF2006). (2007 - Current Contents, SCOPUS). ISSN 0003-6951.

Citácie:

1. [1.1] FREEDSMAN, J.J. - WATANABE, A. - URAYAMA, Y. - EGAWA, T. In *APPLIED PHYSICS LETTERS*. SEP 7 2015, vol. 107, no. 10., WOS

2. [1.1] KUBO, T. - FREEDSMAN, J.J. - YOSHIDA, Y. - EGAWA, T. In *JAPANESE JOURNAL OF APPLIED PHYSICS*. FEB 2015, vol. 54, no. 2., WOS

3. [1.1] ZHU, J.J. - MA, X.H. - XIE, Y. - HOU, B. - CHEN, W.W. - ZHANG, J.C. - HAO, Y. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. FEB 2015, vol. 62, no. 2, p. 512-518., WOS

ADCA169

KORDOŠ, Peter - MORVIC, Marian - BETKO, Július - HOVE, J. M. van - WOWCHAK, A.M. - CHOW, P.P. Conductivity and Hall effect characterization of highly resistive molecular-beam epitaxial GaN layers. In *Journal of Applied Physics*, 2000, vol. 88, no. 10, p. 5821-5826. (2.275 -

- IF1999). ISSN 0021-8979.
Citácie:
1. [1.1] NINGTHOUJAM, R.S. - GAJBHIYE, N.S. In *PROGRESS IN MATERIALS SCIENCE. MAY 2015, vol. 70, p. 50-154., WOS*
2. [1.1] OH, M. - KIM, H. In *JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY. OCT 2015, vol. 15, no. 10, SI, p. 7531-7536., WOS*
- ADCA170 KORDOŠ, Peter - MIKULICS, M. - STOKLAS, Roman - ČIČO, Karol - DADGAR, A. - GRÜTZMACHER, D. - KROST, A. Thermally oxidized InAlN of different compositions for InAlN/GaN heterostructure field-effect transistors. In *Journal of Electronic Materials*, 2012, vol. 41, p. 3013-3016. (1.466 - IF2011). (2012 - Current Contents). ISSN 0361-5235.
Citácie:
1. [1.1] HUANG, X.X. - TANG, X.G. - LAI, J.L. - JIANG, Y.P. - LIU, Q.X. - XIONG, D.P. In *JOURNAL OF ELECTRONIC MATERIALS. OCT 2015, vol. 44, no. 10, p. 3783-3787., WOS*
- ADCA171 KORDOŠ, Peter - KÚDELA, Róbert - STOKLAS, Roman - ČIČO, Karol - MIKULICS, M. - GREGUŠOVÁ, Dagmar - NOVÁK, Jozef. Aluminium oxide as passivation and gate insulator in GaAs-based field-effect transistors prepared in situ by metal-organic vapor deposition. In *Applied Physics Letters*, 2012, vol. 100, 142113. (3.844 - IF2011). (2012 - Current Contents). ISSN 0003-6951.
Citácie:
1. [1.1] LIU, L.N. - CHOI, H.W. - LAI, P.T. - XU, J.P. In *JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B. SEP 2015, vol. 33, no. 5., WOS*
2. [1.1] LIU, L.N. - CHOI, H.W. - XU, J.P. - LAI, P.T. In *APPLIED PHYSICS LETTERS. NOV 23 2015, vol. 107, no. 21., WOS*
- ADCA172 KORENKO, Michal - KUCHARÍK, Marián - OBOŇA, Jozef Vincenc - JANIČKOVIČ, Dušan - CÓRDOBA, R. - DE TERESA, J.M. - KUBÍKOVÁ, Blanka. Nanotubes made from deeply undercooled cryolite/alumina melts. In *Helvetica Chimica Acta*, 2008, vol. 91, pp. 1389-1399. (1.515 - IF2007).
Citácie:
1. [1.1] BOCA, M. - RAKHMATULLIN, A. - MLYNARIKOVA, J. - HADZIMOVA, E. - VASKOVA, Z. - MICUSIK, M. In *DALTON TRANSACTIONS. 2015, vol. 44, no. 39, p. 17106-17117., WOS*
- ADCA173 KORPELA, A. - KALLIOHAKA, T. - LEHTONEN, J. - MIKKONEN, R. - PITEL, Jozef - KOVÁČ, Pavol. Current-voltage characteristics of an HTS coil having a hot spot. In *IEEE Transactions on Applied Superconductivity*, 2002, vol. 12, p. 1438-1441.
Citácie:
1. [1.1] BELGUERRAS, L. - MEZANI, S. - LUBIN, T. - LEVEQUE, J. - REZZOUG, A. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. SEP 2015, vol. 28, no. 9., WOS*
- ADCA174 KORPELA, A. - KALLIOHAKA, T. - LEHTONEN, J. - MIKKONEN, R. - PITEL, Jozef - KOVÁČ, Pavol. Relation between different critical current criteria and quench current in HTS magnets. In *Physica C*, 2002, vol. 372-376, p. 1360-1363. (0.806 - IF2001). (2002 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.
Citácie:
1. [1.1] HARO, E. - STENVALL, A. - VAN NUGTEREN, J. - KIRBY, G. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. APR 2015, vol. 25, no. 2, p. 1-7., WOS*
- ADCA175 KORYTÁR, Dušan. Basic equations for multiple successive diffraction and angle distortion minimization in X-ray magnifiers. In *Czechoslovak journal of physics B*, 1990, vol. 40, p. 495. ISSN 0011-4626.
Citácie:
1. [1.1] CUSATIS, C. In *JOURNAL OF APPLIED CRYSTALLOGRAPHY. JUN 2015, vol. 48, 3, p. 876-881., WOS*
- ADCA176 KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor - KOPERA, Ľubomír - REISSNER, M. Stainless steel reinforced multi-core MgB₂ wire subjected to variable deformations. In *Superconductor Science and Technology*, 2010, vol. 23, 065010. (2.694 - IF2009). (2010 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
Citácie:
1. [1.1] YANG, Y. - LI, G. - SUSNER, M. - SUMPTION, M.D. - RINDFLEISCH, M. - TOMSIC, M. - COLLINGS, E.W. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS. DEC 15 2015, vol. 519, p. 118-123., WOS*
- ADCA177 KOVÁČ, Pavol - PACHLA, W. - HUŠEK, Imrich - KULCZYK, M. - MELIŠEK, Tibor - HOLUBEK, Tomáš - DIDUSZKO, R. - REISSNER, M. Multicore MgB₂ wires made by hydrostatic extrusion. In *Physica C*, 2008, vol. 468, p. 2356- 2360. (1.079 - IF2007). (2008 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.
Citácie:
1. [1.1] LEE, T.H. - LEE, Y.J. - PARK, K.T. - JEONG, H.G. - LEE, J.H. In *METALS AND*

- ADCA178 *MATERIALS INTERNATIONAL. MAR 2015, vol. 21, no. 2, p. 402-407., WOS*
KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor - MARTINEZ, E. - DHALLÉ, M. Properties of doped ex and in situ MgB₂ multi-filament superconductors. In Superconductor Science and Technology. - Bristol : IOP Publishing, 2006, vol. 19, p. 1076-1082. (1.896 - IF2005). (2006 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
 Citácie:
 1. [1.1] SHAH, M.S. - SHAHABUDDIN, M. - PARAKKANDY, J.M. - QAID, S. - ALZAYED, N.S. In SOLID STATE COMMUNICATIONS. SEP 2015, vol. 218, p. 31-34., WOS
 2. [1.1] SOBRERO, C.E. - MALACHEVSKY, M.T. - SERQUIS, A. In ADVANCES IN CONDENSED MATTER PHYSICS. 2015., WOS
 3. [1.1] YANG, Y. - LI, G. - SUSNER, M. - SUMPTION, M.D. - RINDFLEISCH, M. - TOMSIC, M. - COLLINGS, E.W. In PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS. DEC 15 2015, vol. 519, p. 118-123., WOS
- ADCA179 KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor. Transport currents of two-axially rolled and postannealed MgB₂/Fe wires at 4.2K. In Superconductor Science and Technology, 2002, vol. 15, p. 1340-1344. (1.511 - IF2001). (2002 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
 Citácie:
 1. [1.1] ISHMAEL, S.A. - ROGERS, S. - HUNTE, F. - NADERI, G. - ROACH, C. - STRAKA, W. - SCHWARTZ, J. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. DEC 2015, vol. 25, no. 6., WOS
- ADCA180 KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor - AHORANTA, M. - ŠOUČ, Ján - LEHTONEN, J. - GÖMÖRY, Fedor. Magnetic interaction of iron sheath with superconductor. In Superconductor Science and Technology, 2003, vol. 16, p. 1195-1201. (2.138 - IF2002). (2003 - Current Contents, WOS, SCOPUS).
 Citácie:
 1. [1.1] AINSLIE, M.D. - FUJISHIRO, H. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. MAY 2015, vol. 28, no. 5., WOS
 2. [1.1] PHILIPPE, M.P. - AINSLIE, M.D. - WERA, L. - FAGNARD, J.F. - DENNIS, A.R. - SHI, Y.H. - CARDWELL, D.A. - VANDERHEYDEN, B. - VANDERBEMDEN, P. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. SEP 2015, vol. 28, no. 9., WOS
- ADCA181 KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor - FEDOR, Ján - CAMBEL, Vladimír - MORAWSKI, A. - KARIO, A. Properties of hot pressed MgB₂/Ti tapes. In Physica C, 2009, vol. 469, p. 713-716. (0.740 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.
 Citácie:
 1. [1.1] WANG, D. - ZHANG, X.P. - TANG, S.P. - XU, D. - YAO, C. - DONG, C.H. - XU, Z.T. - MA, Y.W. - OGURO, H. - AWAJI, S. - WATANABE, K. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. OCT 2015, vol. 28, no. 10., WOS
 2. [1.1] WANG, D.L. - ZHANG, H.T. - ZHANG, X.P. - TANG, S.P. - MA, Y.W. - OGURO, H. - AWAJI, S. - WATANABE, K. In PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS. JAN 15 2015, vol. 508, p. 49-55., WOS
- ADCA182 KOVÁČ, Pavol - HUŠEK, Imrich - PACHLA, W. Ceramic core density and homogeneity in BSCCO/Ag tapes. In IEEE Transactions on Applied Superconductivity, 1997, vol. 7, p. 2098. (0.763 - IF1996). (1997 - Current Contents).
 Citácie:
 1. [1.1] YAO, C. - LIN, H. - ZHANG, Q.J. - ZHANG, X.P. - WANG, D.L. - DONG, C.H. - MA, Y.W. - AWAJI, S. - WATANABE, K. In JOURNAL OF APPLIED PHYSICS. NOV 28 2015, vol. 118, no. 20., WOS
- ADCA183 KOVÁČ, Pavol - KULICH, Miloslav - HAESSLER, W. - HERMANN, M. - MELIŠEK, Tibor - REISSNER, M. Properties of MgB₂ wires made of oxidized powders. In Physica C, 2012, vol. 477, p. 20-23. (1.014 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.
 Citácie:
 1. [1.1] BHAGURKAR, A.G. - YAMAMOTO, A. - BABU, N.H. - DURRELL, J.H. - DENNIS, A.R. - CARDWELL, D.A. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. JAN 2015, vol. 28, no. 1., WOS
- ADCA184 KOVÁČ, Pavol - REISSNER, M. - MELIŠEK, Tibor - HUŠEK, Imrich - MOHAMMAD, S. Current densities of MgB₂ wires by combined ex situ/in situ process. In Journal of Applied Physics, 2009, vol. 106, art. no. 013910. (2.201 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0021-8979.
 Citácie:
 1. [1.1] SHAH, M.S. - SHAHABUDDIN, M. - PARAKKANDY, J.M. - QAID, S. - ALZAYED, N.S. In SOLID STATE COMMUNICATIONS. SEP 2015, vol. 218, p. 31-34., WOS
- ADCA185 KOVÁČ, Pavol - MELIŠEK, Tibor - DHALLÉ, M. - DEN OUDEN, A. - HUŠEK, Imrich. Critical currents of MgB₂ wires prepared in situ and ex situ subjected to axial stress. In Superconductor

- Science and Technology. - Bristol : IOP Publishing, 2005, vol. 18, p. 1374-1379. (1.556 - IF2004). (2005 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
1. [1.1] PASQUET, R. - BERRIAUD, C. - FOREST, F. - HILAIRE, C. - JUSTER, F.P. - PORHIEL, A. - SCHILD, T. - SCOLA, L. - TALEB, A. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. JUN 2015, vol. 25, no. 3., WOS
- ADCA186 KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor - GRIVEL, J.C. - PACHLA, W. - ŠTRBÍK, Vladimír - DIDUSZKO, R. - HOMEYER, J. - ANDERSEN, N.H. The role of MgO content in ex situ MgB₂ wires. In *Superconductor Science and Technology*, 2004, vol. 17, p. L41-L46. (2.247 - IF2003). (2004 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
1. [1.1] WANG, D. - ZHANG, X.P. - TANG, S.P. - XU, D. - YAO, C. - DONG, C.H. - XU, Z.T. - MA, Y.W. - OGURO, H. - AWAJI, S. - WATANABE, K. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. OCT 2015, vol. 28, no. 10., WOS
2. [1.1] WANG, D.L. - ZHANG, H.T. - ZHANG, X.P. - TANG, S.P. - MA, Y.W. - OGURO, H. - AWAJI, S. - WATANABE, K. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. JAN 15 2015, vol. 508, p. 49-55., WOS
- ADCA187 KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor - KOPERA, Ľubomír - KOVÁČ, Ján. Critical currents, I_c-anisotropy and stress tolerance of MgB₂ wires made by internal magnesium diffusion. In *Superconductor Science and Technology*, 2014, vol. 27, 065003. (2.796 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
1. [1.1] JARVELA, J. - LYLY, M. - STENVALL, A. - JUNTUNEN, R. - SOUC, J. - MIKKONEN, R. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. FEB 2015, vol. 25, no. 1., WOS
2. [1.1] LI, Y. - GARCIA, J. - FRANCO, G. - LU, J.Q. - LU, K.J. - RONG, B. - SHAFIQ, B. - CHEN, N. - LIU, Y. - LIU, L.H. - SONG, B.S. - WEI, Y.P. - JOHNSON, S.S. - LUO, Z.P. - FENG, Z.S. In *JOURNAL OF APPLIED PHYSICS*. JUN 7 2015, vol. 117, no. 21., WOS
3. [1.1] YANG, Y. - LI, G. - SUSNER, M. - SUMPTION, M.D. - RINDFLEISCH, M. - TOMSIC, M. - COLLINGS, E.W. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. DEC 15 2015, vol. 519, p. 118-123., WOS
4. [1.2] Ye, S.J., Takigawa, H., Matsumoto, A., Kumakura, H. *IEEE Trans. Applied Supercond.* 25 (2015) 6200807, SCOPUS
- ADCA188 KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor - KOPERA, Ľubomír. Filamentary MgB₂ wire twisted before and after heat treatment. In *Superconductor Science and Technology*, 2011, vol. 24, 115006. (2.402 - IF2010). (2011 - Current Contents, SCOPUS). ISSN 0953-2048.
- Citácie:
1. [1.1] YANG, Y. - LI, G. - SUSNER, M. - SUMPTION, M.D. - RINDFLEISCH, M. - TOMSIC, M. - COLLINGS, E.W. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. DEC 15 2015, vol. 519, p. 118-123., WOS
- ADCA189 KOVÁČ, Pavol - MASTI, M. - LEHTONEN, J. - KOPERA, Ľubomír - KAWANO, K. - ABELL, Sam - METZ, B. - DHALLÉ, M. Comparison and analysis of Hall probe scanning, magneto-optical imaging and magnetic knife measurements of Bi-2223/Ag tape. In *Superconductor Science and Technology*. - Bristol : IOP Publishing, 2005, vol. 18, p. 805-812. (1.556 - IF2004). (2005 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
1. [1.2] Furukawa, K., Higashikawa, K., Imado, K., Inoue, M., Kikuchi, M., Kobayashi, S.-I., Nakashima, T., Hayashi, K., Sato, K.-I., Tomita, M., Kiss, T. *IEEE Transactions on Applied Superconductivity* 25 (2015), 6937130, SCOPUS
- ADCA190 KOVÁČ, Pavol - MARTINEZ, E. - MELIŠEK, Tibor - KOPERA, Ľubomír - HUŠEK, Imrich. Stability of multi-core MgB₂/Ti/Cu/SS wires. In *Cryogenics*, 2011, vol. 31, p. 16-20. (1.130 - IF2010). (2011 - Current Contents). ISSN 0011-2275.
- Citácie:
1. [1.2] Spurrell, J., Young, E., Falorio, I., Pelegrin, J., Ballarino, A., Yang, Y. *IEEE Transactions on Applied Superconductivity* 25 (2015), 6918426, SCOPUS
- ADCA191 KRČMÁR, Roman - GENDIAR, Andrej - UEDA, K. - NISHINO, T. Ising model on a hyperbolic lattice studied by the corner transfer matrix renormalization group method. In *Journal of Physics A: Mathematical and Theoretical*, 2008, vol. 41, art. no. 125001, also arXiv:0712.0461 (December 2007). (1.577 - IF2006). (2007 - Current Contents, SCOPUS). ISSN 1751-8113.
- Citácie:
1. [1.1] MNASRI, K. - JEEVANESAN, B. - SCHMALIAN, J. In *PHYSICAL REVIEW B*. OCT 30 2015, vol. 92, no. 13., WOS
- ADCA192 KRČMÁR, Roman - IHARAGI, T. - GENDIAR, Andrej - NISHINO, T. Tricritical point of the J1-J2

- ising model on a hyperbolic lattice. In *Physical Review E*, 2008, vol. 78, art. no. 061119. (2.483 - IF2007). (2008 - Current Contents, WOS, SCOPUS). ISSN 2470-0045.
- Citácie:
- [1.1] BRANDAO, R. - MIRANDA, J.A. In *PHYSICAL REVIEW E. JUL 27 2015*, vol. 92, no. 1., WOS
 - [1.1] MNASRI, K. - JEEVANESAN, B. - SCHMALIAN, J. In *PHYSICAL REVIEW B. OCT 30 2015*, vol. 92, no. 13., WOS
- ADCA193 KREISEL, J. - LUCAZEAU, G. - DUBOURDIEU, C. - ROSINA, Milan - WEISS, F. Raman scattering study of La_{0.7}Sr_{0.3}MnO₃/SrTiO multilayers. In *Journal of Physics: Condensed Matter*, 2002, vol. 14, p. 5201-5210. (1.611 - IF2001). (2002 - Current Contents, WOS, SCOPUS). ISSN 0953-8984.
- Citácie:
- [1.1] BEHERA, B.C. - PADHAN, P. - PRELLIER, W. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS. AUG 15 2015*, vol. 388, p. 22-27., WOS
- ADCA194 KREMPASKÝ, Ludovít - SCHMIDT, C. Theory of "supercurrents" and their influence on field quality and stability of superconducting magnets. In *Journal of Applied Physics*, 1995, vol. 78, p. 5800-5810.
- Citácie:
- [1.1] AQUILINA, N. - GIOVANNOZZI, M. - LAMONT, M. - SAMMUT, N. - STEINHAGEN, R. - TODESCO, E. - WENNINGER, J. In *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. APR 1 2015*, vol. 778, p. 6-13., WOS
- ADCA195 KREMPASKÝ, Ludovít - SCHMIDT, C. Influence of supercurrents on the stability of superconducting magnets. In *Physica C : Superconductivity and Its Applications*, 1998, vol. 310, p. 327-334. (2.199 - IF1997). (1998 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.
- Citácie:
- [1.2] Collings, E.W., Sumption, M.D., Majoros, M., Wang, X., Dietderich, D.R. *IEEE Transactions on Applied Superconductivity 25 (2015)*, 7006746, SCOPUS
- ADCA196 KRUPA, Igor - CECEN, Volkan - BOUDENNE, Abderrahim - KRIŽANOVÁ, Zuzana - VÁVRA, Ivo - SRNÁNEK, Rudolf - RADNÓCZI, Gyorgy. Mechanical properties and morphology of composites based on the EVA copolymer filled with expanded graphite. In *Polymer - Plastics Technology and Engineering*, 2012, vol. 51, p. 1388-1393. (1.279 - IF2011). (2012 - Current Contents). ISSN 0360-2559.
- Citácie:
- [1.1] NASIR, A. - KAUSAR, A. - YOUNUS, A. *Polymer/Graphite Nanocomposites: Physical Features, Fabrication and Current Relevance. In POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING. ISSN 0360-2559, MAY 11 2015*, vol. 54, no. 7, p. 750-770., WOS
 - [1.1] SEFADI, S.J. - LUYT, A.S. - PIONTECK, J. *Effect of Surfactant on EG Dispersion in EVA and Thermal and Mechanical Properties of the System. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, JAN 20 2015*, vol. 132, no. 4., WOS
- ADCA197 KUBICOVÁ, I. - PUDIŠ, D. - ŠKRINIAROVÁ, J. - KOVÁČ, Jaroslav - KOVÁČ, Jaroslav Jr. - JAKABOVIČ, J. - ŠUŠLIK, Ľ. - NOVÁK, Jozef - KUZMA, A. 2D irregular structure in the LED surface patterned by NSOM lithography. In *Applied Surface Science*, 2013, vol. 269, p. 116-119. (2.112 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0169-4332.
- Citácie:
- [1.1] CUI, J.L. - YANG, L.J. - WANG, Y. - MEI, X.S. - WANG, W.J. - HOU, C.J. - CHENG, B. - DAI, Q. In *INTEGRATED FERROELECTRICS. 2015*, vol. 164, no. 1, SI, p. 90-97., WOS
 - [1.1] YANG, Y.B. - REN, Y. - CHEN, Y.X. - LIU, M.G. - CHEN, W.J. - HAN, X.B. - LIN, X.Q. - LIAO, Q. - ZANG, W.J. - LUO, H. - LIN, J.L. - WU, Z.S. - LIU, Y. - ZHANG, B.J. In *MICROELECTRONIC ENGINEERING. MAY 1 2015*, vol. 139, p. 39-42., WOS
- ADCA198 KULIFFAYOVÁ, Marta - KRAJČI, Ľudovít - JANOTKA, Ivan - ŠMATKO, Vasilij. Thermal behaviour and characterization of cement composites with burnt kaolin sand. In *Journal of Thermal Analysis and Calorimetry*, 2012, vol. 108, p. 425-432. (1.604 - IF2011). ISSN 1388-6150.
- Citácie:
- [1.1] LOTFY, A. - KARAHAN, O. - OZBAY, E. - HOSSAIN, K. M. A. - LACHEMI, M. *Effect of kaolin waste content on the properties of normal-weight concretes. In CONSTRUCTION AND BUILDING MATERIALS. ISSN 0950-0618, 2015*, vol. 83, p. 102-107., WOS
 - [1.1] SCHACKOW, A. - STRINGARI, D. - SENFF, L. - CORREIA, S. L. - SEGADAES, A. M. *Influence of fired clay brick waste additions on the durability of mortars. In CEMENT & CONCRETE COMPOSITES. ISSN 0958-9465, 2015*, vol. 62, p. 82-89., WOS
 - [1.1] TIRONI, A. - CASTELLANO, C. C. - BONAVETTI, V. - TREZZA, M. A. - SCIAN, A. N. - IRASSAR, E. F. *Blended Cements Elaborated with Kaolinitic Calcined Clays. In INTERNATIONAL CONGRESS OF SCIENCE AND TECHNOLOGY OF METALLURGY AND*

- ADCA199 *MATERIALS, SAM CONAMET 2013. ISSN 2211-8128, 2015, vol. 8, p. 211-217., WOS*
KULICH, Miloslav - KOVÁČ, Pavol - EISTERER, M. - HUŠEK, Imrich - MELIŠEK, Tibor - WEBER, H.W. - HAESSLER, W. Effect of C and SiC additions into in situ or mechanically alloyed MgB₂ deformed in Ti sheath. In *Physica C*, 2009, vol. 469, p. 827-831. (0.740 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.
 Citácie:
 1. [1.1] BHAGURKAR, A.G. - YAMAMOTO, A. - BABU, N.H. - DURRELL, J.H. - DENNIS, A.R. - CARDWELL, D.A. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. JAN 2015, vol. 28, no. 1., WOS*
- ADCA200 KUNZO, Pavol - LOBOTKA, Peter - KOVÁČOVÁ, Eva - CHRISSTOPOULOU, K. - PAPOUTSAKIS, L. - ANASTASIADIS, S.H. - KRIŽANOVÁ, Zuzana - VÁVRA, Ivo. Nanocomposites of polyaniline and titania nanoparticles for gas sensors. In *Physica status solidi A. Applications and materials science*, 2013, vol. 210, p. 2341-2347. (1.469 - IF2012). (2013 - Current Contents). ISSN 1862-6300.
 Citácie:
 1. [1.1] BANDGAR, D.K. - NAVALE, S.T. - NAUSHAD, M. - MANE, R.S. - STADLER, F.J. - PATIL, V.B. In *RSC ADVANCES. 2015, vol. 5, no. 84, p. 68964-68971., WOS*
 2. [1.1] LI, X.L. - XUAN, T.M. - YIN, G.L. - GAO, Z.Y. - ZHAO, K.F. - YAN, P. - HE, D.N. In *JOURNAL OF ALLOYS AND COMPOUNDS. OCT 5 2015, vol. 645, p. 553-558., WOS*
- ADCA201 KUNZO, Pavol - LOBOTKA, Peter - MIČUŠÍK, Matej - KOVÁČOVÁ, Eva. Palladium-free hydrogen sensor based on oxygen-plasma-treated polyaniline. In *Sensors and Actuators B-Chemical*, 2012, vol. B171 - 172, p. 838 - 845. (3.898 - IF2011). (2012 - Current Contents). ISSN 0925-4005.
 Citácie:
 1. [1.1] BUZANOVSKII, V.A. In *Instruments and Systems: Monitoring, Control, and Diagnostics. 2014, no. 4, p. 28-51., WOS*
 2. [1.1] SINHA, M. - PANDA, S. Effects of thickness, dopant type and doping levels of flexible nanoscale polyaniline films on responses to gases. In *MATERIALS RESEARCH EXPRESS. ISSN 2053-1591, JUL 2015, vol. 2, no. 7., WOS*
- ADCA202 KUZMA, A. - WEIS, M. - FLICKYNGEROVÁ, S. - JAKABOVIČ, J. - ŠATKA, A. - DOBROČKA, Edmund - CHLPIK, J. - CIRÁK, J. - DONOVAL, M. - TELEK, P. - UHEREK, F. - DONOVAL, D. Influence of surface oxidation on plasmon resonance in monolayer of gold and silver nanoparticles. In *Journal of Applied Physics*, 2012, vol. 112, 103531. (2.168 - IF2011). (2012 - Current Contents). ISSN 0021-8979.
 Citácie:
 1. [1.1] CHENG, C.T. - HUANG, B.J. - WANG, C.X. - ZHANG, Z. - GAN, S. - MAO, X.R. - LIU, S.J. - XUE, P. - CHEN, H.D. In *IEEE PHOTONICS TECHNOLOGY LETTERS. NOV 15 2015, vol. 27, no. 22, p. 2414-2417., WOS*
 2. [1.1] D'AGOSTINO, S. - DELLA SALA, F. - ANDREANI, L.C. In *NANOMATERIALS AND NANOTECHNOLOGY. APR 22 2015, vol. 5., WOS*
 3. [1.1] LIU, Y.H. - ZI, W. - LIU, S.Z. - YAN, B.J. In *SOLAR ENERGY MATERIALS AND SOLAR CELLS. SEP 2015, vol. 140, p. 180-186., WOS*
 4. [1.1] OZAKI, K. - NISHIYAMA, F. - TAKAHIRO, K. In *APPLIED SURFACE SCIENCE. DEC 1 2015, vol. 357, B, p. 1816-1822., WOS*
 5. [1.1] PAL, A.K. - MOHAN, D.B. In *OPTICAL MATERIALS. OCT 2015, vol. 48, p. 121-132., WOS*
 6. [1.1] TODISCO, F. - D'AGOSTINO, S. - ESPOSITO, M. - FERNANDEZ-DOMINGUEZ, A.I. - DE GIORGI, M. - BALLARINI, D. - DOMINICI, L. - TARANTINI, L. - CUSCUNA, M. - DELLA SALA, F. - GIGLI, G. - SANVITTO, D. In *ACS NANO. OCT 2015, vol. 9, no. 10, p. 9691-9699., WOS*
- ADCA203 KUZMÍK, Ján - KONSTANTINIDIS, G. - HARASEK, S. - HAŠČÍK, Štefan - BERTAGNOLLI, E. - GEORGAKILAS, A. - POGANY, D. ZrO₂/(Al)GaN metal-oxide-semiconductor structures characterization and application. In *Semiconductor Science and Technology*, 2004, vol. 19, p. 1364-1368. ISSN 0268-1242.
 Citácie:
 1. [1.1] HAHN, H. - PECS, B. - KOVACS, A. - HEUKEN, M. - KALISCH, H. - VESCAN, A. In *JOURNAL OF APPLIED PHYSICS. JUN 7 2015, vol. 117, no. 21., WOS*
 2. [1.1] HU, C.C. - WU, C.E. - LIN, H.C. - LEE, K.W. - WANG, Y.H. In *MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. JAN 2015, vol. 29, p. 272-276., WOS*
- ADCA204 KUZMÍK, Ján - POGANY, D. - GORNIK, E. - JAVORKA, P. - KORDOŠ, Peter. Electrical overstress in AlGaIn/GaN HEMTs: study of degradation processes. In *Solid-State Electronics*, 2004, vol. 48, p. 271-276. ISSN 0038-1101.
 Citácie:
 1. [1.1] KASCHANI, K.T. In *MICROELECTRONICS RELIABILITY. MAY 2015, vol. 55, no. 6, p.*

- 853-862., WOS
2. [1.1] ROSSETTO, I. - MENEGHINI, M. - BARBATO, M. - RAMPAZZO, F. - MARCON, D. - MENEGHESSO, G. - ZANONI, E. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. SEP 2015, vol. 62, no. 9, p. 2830-2836., WOS
- ADCA205 KUZMÍK, Ján - BYCHIKHIN, S. - POGANY, D. - GAQUIERE, C. - PICHONAT, E. - MORVAN, E. Investigation of the thermal boundary resistance at the III-Nitride/substrate interface using optical methods. In *Journal of Applied Physics*. - New York : American Institute of Physics, 2007, vol. 101, p. 054508. (2.316 - IF2006). (2007 - Current Contents, SCOPUS). ISSN 0021-8979.
- Citácie:
1. [1.1] MIYAGAWA, R. - ERYU, O. In *JAPANESE JOURNAL OF APPLIED PHYSICS*. JUL 2015, vol. 54, no. 7., WOS
2. [1.1] SODAN, V. - OPRINS, H. - STOFFELS, S. - BAELMANS, M. - DE WOLF, I. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. AUG 2015, vol. 62, no. 8, p. 2416-2422., WOS
3. [1.1] TALLARICO, A.N. - MAGNONE, P. - SANGIORGI, E. - FIEGNA, C. In *2014 INTERNATIONAL CONFERENCE ON SIMULATION OF SEMICONDUCTOR PROCESSES AND DEVICES (SISPAD)*. 2014, p. 233-236., WOS
4. [1.1] WANG, Z.L. - SUN, M.M. - YAO, G. - TANG, D.W. - XU, K. In *INTERNATIONAL JOURNAL OF THERMAL SCIENCES*. JAN 2015, vol. 87, p. 178-186., WOS
5. [1.1] WON, Y. - CHO, J. - AGONAFER, D. - ASHEGHI, M. - GOODSON, K.E. In *IEEE TRANSACTIONS ON COMPONENTS PACKAGING AND MANUFACTURING TECHNOLOGY*. JUN 2015, vol. 5, no. 6, p. 737-744., WOS
6. [1.1] ZHANG, Y.M. - FENG, S.W. - WANG, L. - JI, Y. - HAN, X.D. - SHI, L. - ZHAO, Y. In *SEMICONDUCTOR SCIENCE AND TECHNOLOGY*. MAY 2015, vol. 30, no. 5., WOS
- ADCA206 KUZMÍK, Ján - POZZOVIVO, G. - OSTERMAIER, C. - STRASSER, G. - POGANY, D. - GORNIK, E. - CARLIN, J.-F. - GONSCHOREK, M. - FELTIN, E. - GRANDJEAN, N. Analysis of degradation mechanisms in lattice-matched InAlN/GaN high-electron-mobility transistors. In *Journal of Applied Physics*, 2009, vol. 106, 124503. (2.201 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0021-8979.
- Citácie:
1. [1.1] ADAK, S. - SWAIN, S.K. - PARDESHI, H. - RAHMAN, H. - SARKAR, C.K. In *1ST INTERNATIONAL CONFERENCE ON COMPUTING COMMUNICATION CONTROL AND AUTOMATION ICCUBEA 2015*. 2015, p. 902-905., WOS
2. [1.1] KANG, T.S. - REN, F. - GILA, B.P. - PEARTON, S.J. - PATRICK, E. - CHENEY, D.J. - LAW, M. - ZHANG, M.L. In *JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B*. NOV 2015, vol. 33, no. 6., WOS
3. [1.1] KYAW, L.M. - BERA, L.K. - BHAT, T.N. - LIU, Y. - TAN, H.R. - BIN DOLMANAN, S. - CHOR, E.F. - TRIPATHY, S. In *JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B*. SEP 2015, vol. 33, no. 5., WOS
4. [1.1] LEE, G.Y. - TU, P.T. - CHYI, J.I. In *APPLIED PHYSICS EXPRESS*. JUN 2015, vol. 8, no. 6., WOS
5. [1.1] PETITDIDIER, S. - BERTHET, F. - GUHEL, Y. - TROLET, J.L. - MARY, P. - GAQUIERE, C. - BOUDART, B. In *MICROELECTRONICS RELIABILITY*. AUG-SEP 2015, vol. 55, no. 9-10, p. 1719-1723., WOS
6. [1.1] PIOTROWICZ, S. - JARDEL, O. - CHARTIER, E. - AUBRY, R. - BACZKOWSKI, L. - CASBON, M. - DUA, C. - ESCOTTE, L. - GAMARRA, P. - JACQUET, J. C. - MICHEL, N. - NSELE, S. D. - OUALLI, M. - PATARD, O. - POTIER, C. - POISSON, M. A. Di-Forte - DELAGE, S. L. In *2014 IEEE MTT-S INTERNATIONAL MICROWAVE SYMPOSIUM (IMS)*. ISSN 0149-645X, 2014., WOS
7. [1.2] Wang, H., Xie, S., Feng, Z.-H., Liu, B., Mao, L.-H. *Gongneng Cailiao/Journal of Functional Materials* 46 (2015), pp. 01051-01054 and 01060, SCOPUS
- ADCA207 KUZMÍK, Ján. Power electronics on InAlN/(In)GaN: prospect for a record performance. In *IEEE Electron Devices Letters*, 2001, vol. 22, p. 510-512. (2001 - Current Contents). ISSN 0741-3106.
- Citácie:
1. [1.1] ABINGEORGE - NIRMAL, D. - PRAJOON, P. - MATHEW, A. In *2014 INTERNATIONAL CONFERENCE ON ELECTRONICS AND COMMUNICATION SYSTEMS (ICECS)*. 2014., WOS
2. [1.1] ADAK, S. - SWAIN, S.K. - PARDESHI, H. - RAHMAN, H. - SARKAR, C.K. In *1ST INTERNATIONAL CONFERENCE ON COMPUTING COMMUNICATION CONTROL AND AUTOMATION ICCUBEA 2015*. 2015, p. 902-905., WOS
3. [1.1] AMARNATH, G. - SRINIVAS, G. - LENKA, T.R. In *2015 INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION AND INFORMATICS (ICCCI)*. 2015., WOS
4. [1.1] AMIRABBASI, M. - ESHGHI, H. In *CHINESE JOURNAL OF PHYSICS*. FEB 2015, vol. 53, no. 1., WOS

5. [1.1] ARDARAVICIUS, L. - KIPRIJANOVIC, O. - LIBERIS, J. - SERMUKSNIS, E. - MATULIONIS, A. - FERREYRA, A. - AVRUTIN, V. - OZGUR, U. - MORKOC, H. In SEMICONDUCTOR SCIENCE AND TECHNOLOGY. OCT 2015, vol. 30, no. 10., WOS
6. [1.1] ARULKUMARAN, S. - NG, G.I. - RANJAN, K. - KUMAR, C.M.M. - FOO, S.C. - ANG, K.S. - VICKNESH, S. - BIN DOLMANAN, S. - BHAT, T. - TRIPATHY, S. In JAPANESE JOURNAL OF APPLIED PHYSICS. APR 2015, vol. 54, no. 4, SI., WOS
7. [1.1] BERGSTEN, J. - MALMROS, A. - TORDJMAN, M. - GAMARRA, P. - LACAM, C. - DI FORTE-POISSON, M.A. - RORSMAN, N. In SEMICONDUCTOR SCIENCE AND TECHNOLOGY. OCT 2015, vol. 30, no. 10., WOS
8. [1.1] BERTHET, F. - PETITDIDIER, S. - GUHEL, Y. - TROLET, J.L. - MARY, P. - GAQUIERE, C. - BOUDART, B. In 2015 15TH EUROPEAN CONFERENCE ON RADIATION AND ITS EFFECTS ON COMPONENTS AND SYSTEMS (RADECS). 2015., WOS
9. [1.1] CHOWDHURY, S. - BISWAS, D. In APPLIED PHYSICS LETTERS. FEB 23 2015, vol. 106, no. 8., WOS
10. [1.1] CHOWDHURY, S. - BORISOV, B. - CHOW, P. - BISWAS, D. In JOURNAL OF ELECTRONIC MATERIALS. NOV 2015, vol. 44, no. 11, p. 4144-4153., WOS
11. [1.1] DOWNEY, B.P. - MEYER, D.J. - KATZER, D.S. - MARRON, T.M. - PAN, M. - GAO, X. In SOLID-STATE ELECTRONICS. APR 2015, vol. 106, p. 12-17., WOS
12. [1.1] GLADYSIEWICZ, M. - JANICKI, L. - SIEKACZ, M. - CYWINSKI, G. - SKIERBISZEWSKI, C. - KUDRAWIEC, R. In APPLIED PHYSICS LETTERS. DEC 28 2015, vol. 107, no. 26., WOS
13. [1.1] GUEN-BOUAZZA, A. - KOURDI, Z. - BOUAZZA, B. In OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS. NOV-DEC 2015, vol. 9, no. 11-12, p. 1508-1513., WOS
14. [1.1] HARDY, M.T. - STORM, D.F. - NEPAL, N. - KATZER, D.S. - DOWNEY, B.P. - MEYER, D.J. In JOURNAL OF CRYSTAL GROWTH. SEP 1 2015, vol. 425, p. 119-124., WOS
15. [1.1] HENNIG, J. - DADGAR, A. - WITTE, H. - BLASING, J. - LESNIK, A. - STRITTMATTER, A. - KROST, A. In AIP ADVANCES. JUL 2015, vol. 5, no. 7., WOS
16. [1.1] HUANG, W.C. - LIU, K.S. - WONG, Y.Y. - HSIEH, C.F. - CHANG, E.Y. - HSU, H.T. In JAPANESE JOURNAL OF APPLIED PHYSICS. JUL 2015, vol. 54, no. 7., WOS
17. [1.1] KAJITANI, R. - TANAKA, K. - OGAWA, M. - ISHIDA, H. - ISHIDA, M. - UEDA, T. In JAPANESE JOURNAL OF APPLIED PHYSICS. APR 2015, vol. 54, no. 4, SI., WOS
18. [1.1] KYAW, L.M. - BERA, L.K. - BHAT, T.N. - LIU, Y. - TAN, H.R. - BIN DOLMANAN, S. - CHOR, E.F. - TRIPATHY, S. In JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B. SEP 2015, vol. 33, no. 5., WOS
19. [1.1] LEE, G.Y. - TU, P.T. - CHYI, J.I. In APPLIED PHYSICS EXPRESS. JUN 2015, vol. 8, no. 6., WOS
20. [1.1] LIU, Y.L. - YANG, L.H. - CHEN, D.J. - ZHANG, L. - LU, H. - ZHANG, R. - ZHENG, Y.D. In SUPERLATTICES AND MICROSTRUCTURES. JUL 2015, vol. 83, p. 353-360., WOS
21. [1.1] LUO, J. - ZHAO, S.L. - MI, M.H. - HOU, B. - YANG, X.L. - ZHANG, J.C. - MA, X.H. - HAO, Y. In CHINESE PHYSICS B. NOV 2015, vol. 24, no. 11., WOS
22. [1.1] MAKIYAMA, K. - OZAKI, S. - OHKI, T. - OKAMOTO, N. - MINOURA, Y. - NIIDA, Y. - KAMADA, Y. - JOSHIN, K. - WATANABE, K. - MIYAMOTO, Y. In 2015 IEEE INTERNATIONAL ELECTRON DEVICES MEETING (IEDM). 2015., WOS
23. [1.1] MARTIN, K.N. In 2015 IEEE INTERNATIONAL RADAR CONFERENCE (RADARCON). 2015, p. 248-252., WOS
24. [1.1] MARTIN-HORCAJO, S. - WANG, A. - BOSCA, A. - ROMERO, M.F. - TADJER, M.J. - KOEHLER, A.D. - ANDERSON, T.J. - CALLE, F. In SEMICONDUCTOR SCIENCE AND TECHNOLOGY. MAR 2015, vol. 30, no. 3., WOS
25. [1.1] MIYOSHI, M. - FUJITA, S. - EGAWA, T. In APPLIED PHYSICS EXPRESS. FEB 2015, vol. 8, no. 2., WOS
26. [1.1] PANDEY, D. - LENKA, T.R. In SEMICONDUCTORS. APR 2015, vol. 49, no. 4, p. 513-518., WOS
27. [1.1] PARDESHI, H. In SUPERLATTICES AND MICROSTRUCTURES. DEC 2015, vol. 88, p. 508-517., WOS
28. [1.1] PETITDIDIER, S. - BERTHET, F. - GUHEL, Y. - TROLET, J.L. - MARY, P. - GAQUIERE, C. - BOUDART, B. In MICROELECTRONICS RELIABILITY. AUG-SEP 2015, vol. 55, no. 9-10, p. 1719-1723., WOS
29. [1.1] PILLAI, R. - STARIKOV, D. - GANDHI, J. - DEBNATH, A. - LI, R.T. - BONEY, C. - BENSOUA, A. In JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B. JAN 2015, vol. 33, no. 1., WOS
30. [1.1] PY, M.A. - LUGANI, L. - TANIYASU, Y. - CARLIN, J.F. - GRANDJEAN, N. In JOURNAL OF APPLIED PHYSICS. MAY 14 2015, vol. 117, no. 18., WOS

31. [1.1] QI, M. - LI, G.W. - PROTASENKO, V. - ZHAO, P. - VERMA, J. - SONG, B. - GANGULY, S. - ZHU, M.D. - HU, Z.Y. - YAN, X.D. - MINTAIROV, A. - XING, H.G. - JENA, D. In *APPLIED PHYSICS LETTERS*. JAN 26 2015, vol. 106, no. 4., WOS
32. [1.1] QI, M. - NOMOTO, K. - ZHU, M.D. - HU, Z.Y. - ZHAO, Y.N. - PROTASENKO, V. - SONG, B. - YAN, X.D. - LI, G.W. - VERMA, J. - BADER, S. - FAY, P. - XING, H.G. - JENA, D. In *APPLIED PHYSICS LETTERS*. DEC 7 2015, vol. 107, no. 23., WOS
33. [1.1] REN, J. - YAN, D.W. - YANG, G.F. - WANG, F.X. - XIAO, S.Q. - GU, X.F. In *JOURNAL OF APPLIED PHYSICS*. APR 21 2015, vol. 117, no. 15., WOS
34. [1.1] ROSSETTO, I. - RAMPAZZO, F. - GERARDIN, S. - MENEGHINI, M. - BAGATIN, M. - ZANANDREA, A. - DUA, C. - DI FORTE-POISSON, M.A. - AUBRY, R. - OUALLI, M. - DELAGE, S.L. - PACCAGNELLA, A. - MENEGHESSO, G. - ZANONI, E. In *SOLID-STATE ELECTRONICS*. NOV 2015, vol. 113, p. 15-21., WOS
35. [1.1] SAIDI, I. - MEJRI, H. - BAIRA, M. - MAAREF, H. In *SUPERLATTICES AND MICROSTRUCTURES*. AUG 2015, vol. 84, p. 113-125., WOS
36. [1.1] SANG, L. - YANG, X.L. - CHENG, J.P. - JIA, L.F. - HE, Z. - GUO, L. - HU, A.Q. - XIANG, Y. - YU, T.J. - WANG, M.J. - XU, F.J. - TANG, N. - WANG, X.Q. - GE, W.K. - SHEN, B. In *APPLIED PHYSICS LETTERS*. AUG 3 2015, vol. 107, no. 5., WOS
37. [1.1] SERMUKSNIS, E. - LIBERIS, J. - MATULIONIS, A. - AVRUTIN, V. - FERREYRA, R. - OZGUR, O. - MORKOC, H. In *SEMICONDUCTOR SCIENCE AND TECHNOLOGY*. MAR 2015, vol. 30, no. 3., WOS
38. [1.1] SINGH, S.P. - LIU, Y. - NGOO, Y.J. - KYAW, L.M. - BERA, M.K. - DOLMANAN, S.B. - TRIPATHY, S. - CHOR, E.F. In *JOURNAL OF PHYSICS D-APPLIED PHYSICS*. SEP 16 2015, vol. 48, no. 36., WOS
39. [1.1] SUEMITSU, T. In *IEICE ELECTRONICS EXPRESS*. JUL 10 2015, vol. 12, no. 13., WOS
40. [1.1] THEN, H.W. - CHOW, L.A. - DASGUPTA, S. - GARDNER, S. - RADOSAVLJEVIC, M. - RAO, V.R. - SUNG, S.H. - YANG, G. - FISCHER, P. In *2015 IEEE INTERNATIONAL ELECTRON DEVICES MEETING (IEDM)*. 2015., WOS
41. [1.1] WATANABE, A. - FREEDSMAN, J.J. - URAYAMA, Y. - CHRISTY, D. - EGAWA, T. In *JOURNAL OF APPLIED PHYSICS*. DEC 21 2015, vol. 118, no. 23., WOS
42. [1.1] WU, F. - GAO, K.H. - LI, Z.Q. - LIN, T. - ZHOU, W.Z. In *JOURNAL OF APPLIED PHYSICS*. APR 21 2015, vol. 117, no. 15., WOS
43. [1.1] YAN, J.D. - WANG, Q. - WANG, X.L. - XIAO, H.L. - JIANG, L.J. - YIN, H.B. - FENG, C. - WANG, C.M. - QU, S.Q. - GONG, J.M. - ZHANG, B. - LI, B.Q. - WANG, Z.G. - HOU, X. In *CHINESE PHYSICS LETTERS*. DEC 2015, vol. 32, no. 12., WOS
44. [1.1] ZHANG, Y.C. - ZHOU, X.W. - XU, S.R. - WANG, Z.Z. - ZHAO, Y. - ZHANG, J.F. - CHEN, D.Z. - ZHANG, J.C. - HAO, Y. In *APPLIED PHYSICS LETTERS*. APR 13 2015, vol. 106, no. 15., WOS
45. [1.1] ZHAO, Y. - XUE, J.S. - ZHANG, J.C. - ZHOU, X.W. - YUE, Y.C.Z. In *SEMICONDUCTOR SCIENCE AND TECHNOLOGY*. JUL 2015, vol. 30, no. 7., WOS
46. [1.1] ZHAO, Y. - ZHANG, J.C. - XUE, J.S. - ZHOU, X.W. - XU, S.R. - HAO, Y. In *CHINESE PHYSICS B*. JAN 2015, vol. 24, no. 1., WOS
47. [1.1] ZHOU, X.Y. - FENG, Z.H. - FANG, Y.L. - WANG, Y.G. - LV, Y.J. - DUN, S.B. - GU, G.D. - TAN, X. - SONG, X.B. - YIN, J.Y. - CAI, S.J. In *SOLID-STATE ELECTRONICS*. JUL 2015, vol. 109, p. 90-94., WOS
48. [4.1] Priesol, J., Vančo, L., Kováč, J.Jr., Šatka, Škriniarová, J.: 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. 53*

ADCA208

KUZMÍK, Ján. InAlN/(In)GaN high electron mobility transistors some aspects of the quantum well heterostructure proposal. In *Semiconductor Science and Technology*. - Bristol : Institute of Physics, 2002, vol. 17, p. 540-544. ISSN 0268-1242.

Citácie:

1. [1.1] CHOWDHURY, S. - BISWAS, D. In *APPLIED PHYSICS LETTERS*. FEB 23 2015, vol. 106, no. 8., WOS
2. [1.1] CHOWDHURY, S. - BORISOV, B. - CHOW, P. - BISWAS, D. In *JOURNAL OF ELECTRONIC MATERIALS*. NOV 2015, vol. 44, no. 11, p. 4144-4153., WOS
3. [1.1] KIM, J. - JI, M.H. - DETCHPROHM, T. - DUPUIS, R.D. - FISCHER, A.M. - PONCE, F.A. - RYOU, J.H. In *JOURNAL OF APPLIED PHYSICS*. SEP 28 2015, vol. 118, no. 12., WOS
4. [1.1] MARTIN-HORCAJO, S. - WANG, A. - BOSCA, A. - ROMERO, M.F. - TADJER, M.J. - KOEHLER, A.D. - ANDERSON, T.J. - CALLE, F. In *SEMICONDUCTOR SCIENCE AND TECHNOLOGY*. MAR 2015, vol. 30, no. 3., WOS
5. [1.1] ZHAO, Y. - ZHANG, J.C. - XUE, J.S. - ZHOU, X.W. - XU, S.R. - HAO, Y. In *CHINESE PHYSICS B*. JAN 2015, vol. 24, no. 1., WOS

ADCA209

KUZMÍK, Ján - JAVORKA, P. - MARSO, M. - KORDOŠ, Peter. Annealing of Schottky contacts

deposited on dry etched AlGaIn/GaN. In *Semiconductor Science and Technology*. - Bristol : Institute of Physics, 2002, vol. 17, p. L76-L78. ISSN 0268-1242.

Citácie:

1. [1.1] CHOU, P.C. - CHEN, H.I. - LIU, I.P. - CHEN, W.C. - CHEN, C.C. - LIOU, J.K. - LAI, C.J. - LIU, W.C. In *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*. AUG 3 2015, vol. 40, no. 29, p. 9006-9012., WOS
2. [1.1] LUO, J. - ZHAO, S.L. - MI, M.H. - HOU, B. - YANG, X.L. - ZHANG, J.C. - MA, X.H. - HAO, Y. In *CHINESE PHYSICS B*. NOV 2015, vol. 24, no. 11., WOS
3. [1.1] WILKINS, S.J. - SLOMSKI, M.J. - PASKOVA, T. - WEYHER, J.L. - IVANISEVIC, A. In *APPLIED PHYSICS LETTERS*. APR 13 2015, vol. 106, no. 15., WOS
4. [1.1] YATABE, Z. - ASUBAR, J.T. - SATO, T. - HASHIZUME, T. In *PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE*. MAY 2015, vol. 212, no. 5, SI, p. 1075-1080., WOS

ADCA210 KUZMÍK, Ján. Proposal of normally-off InN-channel high-electron mobility transistors. In *Semiconductor Science and Technology*, 2014, vol. 29, 035015. (2.206 - IF2013). (2014 - Current Contents). ISSN 0268-1242.

Citácie:

1. [1.1] MIAO, M.S. - DE WA, C.G.V. In *APPLIED PHYSICS EXPRESS*. FEB 2015, vol. 8, no. 2., WOS

ADCA211 KUZMÍK, Ján - ĽAPAJNA, Milan - VÁLIK, Lukáš - MOLNÁR, M. - DONOVAL, D. - FLEURY, C. - POGANY, D. - STRASSER, G. - HILT, O. - BRUNNER, F. - WÜRFL, H.-J. Self-heating in GaN transistors designed for high-power operation. In *IEEE Transactions on Electron Devices*, 2014, vol. 61, p. 3429-3434. (2.358 - IF2013). (2014 - Current Contents). ISSN 0018-9383.

Citácie:

1. [1.1] NAZARI, M. - HANCOCK, B.L. - PINER, E.L. - HOLTZ, M.W. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. MAY 2015, vol. 62, no. 5, p. 1467-1472., WOS
2. [1.1] RODRIGUEZ, R. - GONZALEZ, B. - GARCIA, J. - YIGLETU, F.M. - TIRADO, J.M. - INIGUEZ, B. - NUNEZ, A. In *PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE*. MAY 2015, vol. 212, no. 5, SI, p. 1130-1136., WOS
3. [1.1] ZHAO, X.D. - XU, R.M. - XU, Y.H. In *2015 IEEE INTERNATIONAL CONFERENCE ON COMMUNICATION PROBLEM-SOLVING (ICCP)*. 2015, p. 261-263., WOS

ADCA212 KUZMÍK, Ján - POZZOVIVO, G. - ABERMANN, S. - CARLIN, J.-F. - GONSCHOREK, M. - FELTIN, E. - GRANDJEAN, N. - BERTAGNOLLI, E. - STRASSER, G. - POGANY, D. Technology and performance of InAlN/AlN/GaN HEMTs with gate insulation and current collapse suppression using ZrO₂ or HfO₂. In *IEEE Transactions on Electron Devices*, 2008, vol. 55, p. 937-941. (2.160 - IF2007). (2008 - Current Contents). ISSN 0018-9383.

Citácie:

1. [1.1] CHOU, B.Y. - HSU, W.C. - LIU, H.Y. - LEE, C.S. - WU, Y.S. - SUN, W.C. - WEI, S.Y. - YU, S.M. - CHIANG, M.H. In *SEMICONDUCTOR SCIENCE AND TECHNOLOGY*. JAN 2015, vol. 30, no. 1., WOS
2. [1.1] DOWNEY, B.P. - MEYER, D.J. - KATZER, D.S. - MARRON, T.M. - PAN, M. - GAO, X. In *SOLID-STATE ELECTRONICS*. APR 2015, vol. 106, p. 12-17., WOS
3. [1.1] FREEDSMAN, J.J. - WATANABE, A. - EGAWA, T. In *2015 73RD ANNUAL DEVICE RESEARCH CONFERENCE (DRC)*. 2015, p. 55-56., WOS
4. [1.1] JONES, K.A. - CHOW, T.P. - WRABACK, M. - SHATALOV, M. - SITAR, Z. - SHAHEDIPOUR, F. - UDWARY, K. - TOMPA, G.S. In *JOURNAL OF MATERIALS SCIENCE*. MAY 2015, vol. 50, no. 9, p. 3267-3307., WOS
5. [1.1] LI, Y.R. - LIU, X.Z. - ZHU, J. - ZHANG, J.H. - QIAN, L.X. - ZHANG, W.L. In *RARE METALS*. JUN 2015, vol. 34, no. 6, p. 371-380., WOS
6. [1.1] LIU, H.Y. - LEE, C.S. - HSU, W.C. - WU, T.T. - HUANG, H.S. - CHEN, S.F. - YANG, Y.C. - CHIANG, B.C. - CHANG, H.C. In *2015 IEEE 11TH INTERNATIONAL CONFERENCE ON POWER ELECTRONICS AND DRIVE SYSTEMS (PEDS 2015)*. 2015, p. 578-580., WOS
7. [1.1] SINGH, S.P. - LIU, Y. - NGOO, Y.J. - KYAW, L.M. - BERA, M.K. - DOLMANAN, S.B. - TRIPATHY, S. - CHOR, E.F. In *JOURNAL OF PHYSICS D-APPLIED PHYSICS*. SEP 16 2015, vol. 48, no. 36., WOS
8. [1.1] XUE, J.S. - ZHANG, J.C. - HAO, Y. In *APPLIED PHYSICS LETTERS*. JUL 27 2015, vol. 107, no. 4., WOS
9. [1.1] YE, G. - WANG, H. - NG, S.L.G. - JI, R. - ARULKUMARAN, S. - NG, G.I. - LI, Y. - LIU, Z.H. - ANG, K.S. In *APPLIED PHYSICS LETTERS*. MAR 2 2015, vol. 106, no. 9., WOS
10. [1.1] YE, G. - WANG, H. - NG, S.L.G. - JI, R. - ARULKUMARAN, S. - NG, G.I. - LI, Y. - LIU, Z.H. - ANG, K.S. In *JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A*. SEP 2015, vol. 33, no. 5., WOS

ADCA213 KUZMÍK, Ján - CARLIN, J.-F. - GONSCHOREK, M. - KOSTOPOULOS, A. -

- KONSTANTINIDIS, G. - POZZOVIVO, G. - GOLKA, S. - GEORGAKILAS, A. - GRANDJEAN, N. - STRASSER, G. - POGANY, D. Gate-lag and drain-lag effects in (GaN)/InAlN/GaN and InAlN/AlN/GaN HEMTs. In *Physica status solidi A. Applications and materials science*, 2007, vol. 204, p. 2019-2022. (1.221 - IF2006). (2007 - Current Contents, SCOPUS). ISSN 1862-6300.
Citácie:
1. [1.1] LI, Y. - ZHANG, J.F. - WAN, W. - ZHANG, Y.C. - NIE, Y.H. - ZHANG, J.C. - HAO, Y. In *PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES*. MAR 2015, vol. 67, p. 77-83., WOS
- ADCA214 KUZMÍK, Ján - GEORGAKILAS, A. Proposal of InN channel high electron-mobility transistors. In *IEEE Transactions on Electron Devices*, 2011, vol. 58, p. 720. (2.255 - IF2010). (2011 - Current Contents). ISSN 0018-9383.
Citácie:
1. [1.1] MIAO, M.S. - DE WA, C.G.V. In *APPLIED PHYSICS EXPRESS*. FEB 2015, vol. 8, no. 2., WOS
2. [1.1] ZHAO, Y. - XUE, J.S. - ZHANG, J.C. - ZHOU, X.W. - YUE, Y.C.Z. In *SEMICONDUCTOR SCIENCE AND TECHNOLOGY*. JUL 2015, vol. 30, no. 7., WOS
- ADCA215 KUZMÍK, Ján - BYCHIKHIN, S. - POGANY, D. - PICHONAT, E. - LANCRY, O. - GAQUIERE, C. - TSIAKATOURAS, G. - DELIGEORGIS, G. - GEORGAKILAS, A. Thermal characterization of MBE-grown GaN/AlGaIn/GaN device on single crystalline diamond. In *Journal of Applied Physics*, 2011, vol. 109, 086106. (2.079 - IF2010). (2011 - Current Contents). ISSN 0021-8979.
Citácie:
1. [1.1] SUN, H.R. - SIMON, R.B. - POMEROY, J.W. - FRANCIS, D. - FAILI, F. - TWITCHEN, D.J. - KUBALL, M. In *APPLIED PHYSICS LETTERS*. MAR 16 2015, vol. 106, no. 11., WOS
2. [1.1] WON, Y. - CHO, J. - AGONAFER, D. - ASHEGHI, M. - GOODSON, K.E. In *IEEE TRANSACTIONS ON COMPONENTS PACKAGING AND MANUFACTURING TECHNOLOGY*. JUN 2015, vol. 5, no. 6, p. 737-744., WOS
- ADCA216 KUZMÍK, Ján. N-polarity InN/GaN/InAlN high-electron-mobility transistors. In *Applied Physics Express*, 2012, vol. 5, 044101. (3.013 - IF2011). (2012 - Current Contents). ISSN 1882-0778.
Citácie:
1. [1.1] COLAKEROL, L. - PIPER, L.F.J. - FEDOROV, A. - CHEN, T. - MOUSTAKAS, T.D. - SMITH, K.E. In *SURFACE SCIENCE*. FEB 2015, vol. 632, p. 154-157., WOS
- ADCA217 KUZMÍK, Ján - OSTERMAIER, C. - POZZOVIVO, G. - BASNAR, B. - SCHRENK, W. - CARLIN, J.-F. - GONSCHOREK, M. - FELTIN, E. - GRANDJEAN, N. - DOUVRY, Y. - GAQUIERE, C. - DE JAEGER, J.-C. - ČIČO, Karol - FRÖHLICH, Karol - ŠKRINIAROVÁ, J. - KOVÁČ, Ján - STRASSER, G. - POGANY, D. - GORNIK, E. Proposal and performance analysis of normally-off n++ GaN/InAlN/AlN/GaN HEMTs with 1 nm thick InAlN barrier. In *IEEE Transactions on Electron Devices*, 2010, vol. 57, p. 2144-2154. (2.445 - IF2009). (2010 - Current Contents). ISSN 0018-9383.
Citácie:
1. [1.1] CHEN, P.G. - TANG, M. - LEE, M.H. In *IEEE ELECTRON DEVICE LETTERS*. MAR 2015, vol. 36, no. 3, p. 259-261., WOS
2. [1.1] YAN, J.D. - WANG, Q. - WANG, X.L. - XIAO, H.L. - JIANG, L.J. - YIN, H.B. - FENG, C. - WANG, C.M. - QU, S.Q. - GONG, J.M. - ZHANG, B. - LI, B.Q. - WANG, Z.G. - HOU, X. In *CHINESE PHYSICS LETTERS*. DEC 2015, vol. 32, no. 12., WOS
3. [4.1] Marek, J., Šatka, A., Donoval, D., Molnár, M., Chvála, A., Pribytný, P., Daríček, M.: 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. 45*
- ADCA218 KUZMÍK, Ján - POGANY, D. - GORNIK, E. - JAVORKA, P. - KORDOŠ, Peter. Electrostatic discharge effects in AlGaIn/GaN high-electron-mobility transistors. In *Applied Physics Letters*. - American Institute of Physics, 2003, vol. 83, p. 4655-4657. (2003 - Current Contents, SCOPUS). ISSN 0003-6951.
Citácie:
1. [1.1] ROSSETTO, I. - MENEGHINI, M. - BARBATO, M. - RAMPAZZO, F. - MARCON, D. - MENEGHESSO, G. - ZANONI, E. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. SEP 2015, vol. 62, no. 9, p. 2830-2836., WOS
2. [1.1] SAITO, W. - SUWA, T. - UCHIHARA, T. - NAKA, T. - KOBAYASHI, T. In *MICROELECTRONICS RELIABILITY*. AUG-SEP 2015, vol. 55, no. 9-10, p. 1682-1686., WOS
- ADCA219 KUZMÍK, Ján - JAVORKA, P. - ALAM, A. - MARSO, M. - HEUKEN, M. - KORDOŠ, Peter. Determination of channel temperature in AlGaIn/GaN HEMTs grown on sapphire and silicon substrates using DC characterization method. In *IEEE Transactions on Electron Devices*, 2002, vol. 49, p. 1496-1498. ISSN 0018-9383.
Citácie:
1. [1.1] ALIM, M.A. - REZAZADEH, A.A. - GAQUIERE, C. In *SEMICONDUCTOR SCIENCE AND TECHNOLOGY*. DEC 2015, vol. 30, no. 12., WOS

2. [1.1] BAG, A. - MUKHOPADHYAY, P. - GHOSH, S. - DAS, P. - CHAKRABORTY, A. - DINARA, S.M. - KABI, S. - BISWAS, D. In *PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON CONDENSED MATTER PHYSICS 2014 (ICCMP 2014)*. 2015, vol. 1661., WOS
3. [1.1] FERRANTI, F. - MAGNANI, A. - D'ALESSANDRO, V. - RUSSO, S. - RINALDI, N. - DHAENE, T. - DE MAGISTRIS, M. In *IEEE TRANSACTIONS ON COMPONENTS PACKAGING AND MANUFACTURING TECHNOLOGY*. JUN 2015, vol. 5, no. 6, p. 788-796., WOS
4. [1.1] MUKHOPADHYAY, P. - BANERJEE, U. - BAG, A. - GHOSH, S. - BISWAS, D. In *SOLID-STATE ELECTRONICS*. FEB 2015, vol. 104, p. 101-108., WOS
5. [1.1] RAJ, B. - NARANG, S.B. In *PERFORMANCE OPTIMIZATION TECHNIQUES IN ANALOG, MIXED-SIGNAL, AND RADIO-FREQUENCY CIRCUIT DESIGN*. 2015, p. 399-418., WOS
6. [1.1] RODRIGUEZ, R. - GONZALEZ, B. - GARCIA, J. - NUNEZ, A. - YIGLETU, F.M. - INIGUEZ, B. - TIRADO, J.M. In *PROCEEDINGS OF THE 2015 10TH SPANISH CONFERENCE ON ELECTRON DEVICES (CDE)*. 2015, p. 34-+, WOS
7. [1.1] RODRIGUEZ, R. - GONZALEZ, B. - GARCIA, J. - YIGLETU, F.M. - TIRADO, J.M. - INIGUEZ, B. - NUNEZ, A. In *PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE*. MAY 2015, vol. 212, no. 5, SI, p. 1130-1136., WOS
8. [1.1] SODAN, V. - STOFFELS, S. - OPRINS, H. - BAELEMANS, M. - DECOUTERE, S. - DE WOLF, I. In *2015 IEEE 27TH INTERNATIONAL SYMPOSIUM ON POWER SEMICONDUCTOR DEVICES & IC'S (ISPSD)*. 2015, p. 377-380., WOS
9. [1.1] ZHAO, X.D. - XU, R.M. - XU, Y.H. In *2015 IEEE INTERNATIONAL CONFERENCE ON COMMUNICATION PROBLEM-SOLVING (ICCP)*. 2015, p. 261-263., WOS

ADCA220

KUZMÍK, Ján - BYCHIKHIN, S. - NEUBURGER, M. - DADGAR, A. - KROST, A. - KOHN, E. - POGANY, D. Transient thermal characterization of AlGaIn/GaN HEMTs grown on silicon. In *IEEE Transactions on Electron Devices*, 2005, vol. 52, p. 1698-1705. ISSN 0018-9383.

Citácie:

1. [1.1] HOU, M.M. - PAN, C.C. - ASHEGHI, M. - SENESKY, D.G. In *2014 IEEE INTERSOCIETY CONFERENCE ON THERMAL AND THERMOMECHANICAL PHENOMENA IN ELECTRONIC SYSTEMS (ITHERM)*. 2014, p. 25-30., WOS
2. [1.1] JONES, J.P. - HELLER, E. - DORSEY, D. - GRAHAM, S. In *MICROELECTRONICS RELIABILITY*. DEC 2015, vol. 55, no. 12, B, p. 2634-2639., WOS
3. [1.1] MUKHOPADHYAY, P. - BANERJEE, U. - BAG, A. - GHOSH, S. - BISWAS, D. In *SOLID-STATE ELECTRONICS*. FEB 2015, vol. 104, p. 101-108., WOS
4. [1.1] ROSSETTO, I. - RAMPAZZO, F. - GERARDIN, S. - MENEGHINI, M. - BAGATIN, M. - ZANANDREA, A. - DUA, C. - DI FORTE-POISSON, M.A. - AUBRY, R. - OUALLI, M. - DELAGE, S.L. - PACCAGNELLA, A. - MENEGHESSO, G. - ZANONI, E. In *SOLID-STATE ELECTRONICS*. NOV 2015, vol. 113, p. 15-21., WOS
5. [1.1] SANG, L. - YANG, X.L. - CHENG, J.P. - JIA, L.F. - HE, Z. - GUO, L. - HU, A.Q. - XIANG, Y. - YU, T.J. - WANG, M.J. - XU, F.J. - TANG, N. - WANG, X.Q. - GE, W.K. - SHEN, B. In *APPLIED PHYSICS LETTERS*. AUG 3 2015, vol. 107, no. 5., WOS
6. [1.1] TSOU, C.W. - LIN, C.Y. - LIAN, Y.W. - HSU, S.S.H. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. AUG 2015, vol. 62, no. 8, p. 2675-2678., WOS
7. [1.1] WANG, Z.L. - SUN, M.M. - YAO, G. - TANG, D.W. - XU, K. In *INTERNATIONAL JOURNAL OF THERMAL SCIENCES*. JAN 2015, vol. 87, p. 178-186., WOS
8. [1.1] WATANABE, A. - FREEDSMAN, J.J. - URAYAMA, Y. - CHRISTY, D. - EGAWA, T. In *JOURNAL OF APPLIED PHYSICS*. DEC 21 2015, vol. 118, no. 23., WOS
9. [1.1] WU, Y.H. - WONG, Y.Y. - CHEN, W.C. - TSAI, D.S. - PENG, C.Y. - TIAN, J.S. - CHANG, L. - CHANG, E.Y. In *MATERIALS RESEARCH EXPRESS*. MAR 2014, vol. 1, no. 1., WOS
10. [1.1] ZHOU, J.J. - DONG, X. - LU, H.Y. - KONG, C. - KONG, Y.C. - CHEN, T.S. - CHEN, C. In *2014 IEEE INTERNATIONAL CONFERENCE ON ELECTRON DEVICES AND SOLID-STATE CIRCUITS (EDSSC)*. 2014., WOS

ADCA221

KUZMÍK, Ján - KOSTOPOULOS, T. - KONSTANTINIDIS, G. - CARLIN, J.-F. - GEORGAKILAS, A. - POGANY, D. In AlIn/GaN HEMTs: A first insight into technological optimization. In *IEEE Transactions on Electron Devices*, 2006, vol. 53, p. 422-426. (2006 - Current Contents). ISSN 0018-9383.

Citácie:

1. [1.1] ROSSETTO, I. - RAMPAZZO, F. - GERARDIN, S. - MENEGHINI, M. - BAGATIN, M. - ZANANDREA, A. - DUA, C. - DI FORTE-POISSON, M.A. - AUBRY, R. - OUALLI, M. - DELAGE, S.L. - PACCAGNELLA, A. - MENEGHESSO, G. - ZANONI, E. In *SOLID-STATE ELECTRONICS*. NOV 2015, vol. 113, p. 15-21., WOS
2. [1.1] SANG, L. - YANG, X.L. - CHENG, J.P. - JIA, L.F. - HE, Z. - GUO, L. - HU, A.Q. - XIANG, Y. - YU, T.J. - WANG, M.J. - XU, F.J. - TANG, N. - WANG, X.Q. - GE, W.K. - SHEN, B.

- In APPLIED PHYSICS LETTERS. AUG 3 2015, vol. 107, no. 5., WOS*
 3. [1.1] TSOU, C.W. - LIN, C.Y. - LIAN, Y.W. - HSU, S.S.H. *In IEEE TRANSACTIONS ON ELECTRON DEVICES. AUG 2015, vol. 62, no. 8, p. 2675-2678., WOS*
 4. [1.1] WATANABE, A. - FREEDSMAN, J.J. - URAYAMA, Y. - CHRISTY, D. - EGAWA, T. *In JOURNAL OF APPLIED PHYSICS. DEC 21 2015, vol. 118, no. 23., WOS*
- ADCA222 KVITKOVIČ, Jozef - PAMIDI, S.V. - VOCCIO, J. Shielding of AC magnetic fields using comercial YBa₂Cu₃O₇-coated conductor tapes. In Superconductor Science and Technology, 2009, vol. 22, art. no. 125009. (1.847 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
 Citácie:
 1. [1.1] BAGHDADI, M. - RUIZ, H.S. - FAGNARD, J.F. - ZHANG, M. - WANG, W. - COOMBS, T.A. *In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS*
 2. [1.1] TOMKOW, L. - CISZEK, M. - CHOROWSKI, M. *In JOURNAL OF APPLIED PHYSICS. JAN 28 2015, vol. 117, no. 4., WOS*
 3. [1.1] WERA, L. - FAGNARD, J.F. - LEVIN, G.A. - VANDERHEYDEN, B. - VANDERBEMDEN, P. *In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. JUL 2015, vol. 28, no. 7., WOS*
- ADCA223 KVITKOVIČ, Jozef - PATIL, P. - PAMIDI, S.V. - VOCCIO, J. Characterization of 2G superconductor magnetic shields at 40–77 K. In IEEE Transactions on Applied Superconductivity, 2011, vol. 21, p. 1477-1480. (1.035 - IF2010). (2011 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.
 Citácie:
 1. [1.1] HOGAN, K. - FAGNARD, J.F. - WERA, L. - VANDERHEYDEN, B. - VANDERBEMDEN, P. *In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. MAR 2015, vol. 28, no. 3., WOS*
- ADCA224 LADZIANSKY, M. - ŠAGÁTOVÁ-PERĎOCHOVÁ, A. - NEČAS, V. - DUBECKÝ, František - LINHART, V. Deep traps study of radiation-damaged semi-insulating GaAs detectors introduced by neutrons. In Nuclear Instruments and Methods in Physics Research A. Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, vol. 607, p. 135-137. (1.019 - IF2008). (2009 - Current Contents, SCOPUS). ISSN 0168-9002.
 Citácie:
 1. [1.1] MESHKIAN, M. *In NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. JUL 11 2015, vol. 788, p. 73-78., WOS*
- ADCA225 LAHTINEN, V. - PARDO, Enric - ŠOUC, Ján - SOLOVYOV, Mykola - STENVALL, A. Ripple field losses in direct current biased superconductors: simulations and comparison with measurements. In Journal of Applied Physics, 2014, vol. 115, 113907. (2.185 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0021-8979.
 Citácie:
 1. [1.1] ESCAMEZ, G. - BADEL, A. - TIXADOR, P. - RAMDANE, B. - MEUNIER, G. - ALLAIS, A. - BRUZEK, C.E. *In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS*
 2. [1.1] KRUGER, P.A.C. - ZERMENO, V.M.R. - TAKAYASU, M. - GRILLI, F. *In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS*
 3. [1.1] MORANDI, A. - FABBRI, M. *In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. FEB 2015, vol. 28, no. 2., WOS*
 4. [1.1] XU, Z.H. - GRILLI, F. *In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. OCT 2015, vol. 28, no. 10., WOS*
- ADCA226 LALINSKÝ, Tibor - RUFER, L. - VANKO, Gabriel - MIR, S. - HAŠČÍK, Štefan - MOZOLOVÁ, Želmíra - VINCZE, A. - UHEREK, F. AlGa_N/Ga_N heterostructure based surface acoustic wave structures for chemical sensors. In Applied Surface Science, 2008, vol. 255, p. 712-714. (1.410 - IF2007). (2008 - Current Contents). ISSN 0169-4332.
 Citácie:
 1. [1.1] YANG, H.Q. - ZHANG, X. - WANG, S.C. - ZHU, M. - CUI, Y.P. *In EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS. NOV 2015, vol. 72, no. 2., WOS*
- ADCA227 LALINSKÝ, Tibor - HAŠČÍK, Štefan - MOZOLOVÁ, Želmíra - BURIAN, Eduard - DRŽÍK, Milan. The improved performance of GaAs micromachined power sensor microsystem. In Sensors and Actuators A, 1999, vol. 76, p. 241-246. (0.742 - IF1998). (1999 - Current Contents).
 Citácie:
 1. [1.2] Wang, D.B., Fang, Y.M. *Transducers - 2015 18th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS 2015 7181139, pp. 1179-1182, SCOPUS*
- ADCA228 LALINSKÝ, Tibor - VALLO, Martin - VANKO, Gabriel - DOBROČKA, Edmund - VINCZE, A. - OSVALD, Jozef - RÝGER, Ivan - DZUBA, Jaroslav. Iridium oxides based gate interface of AlGa_N/Ga_N high electron mobility transistors formed by high temperature oxidation. In Applied

- Surface Science, 2013, vol. 283, p. 160-167. (2.112 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0169-4332.
- Citácie:
1. [1.1] JUNG, S.M. - LEE, C.T. - SHIN, M.W. In *SEMICONDUCTOR SCIENCE AND TECHNOLOGY. JUL 2015*, vol. 30, no. 7., WOS
- ADCA229 LALINSKÝ, Tibor - BREZA, J. - VOGRINČIČ, P. - OSVALD, Jozef - MOZOLOVÁ, Želmíra - ŠIŠOLÁK, J. Iridium-based multilayer contacts to n-GaAs. In *Solid-State Electronics*, 1998, vol. 42, p. 205-210. (0.500 - IF1997). (1998 - Current Contents). ISSN 0038-1101.
- Citácie:
1. [4.1] Dubecký, F., Kindl, D., Hubík, P., Oswald, J., Gombia, E., Boháček, P., Sekáčová, M., Zafko, B., and Šagátová, A.: 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
- ADCA230 LALINSKÝ, Tibor - VANKO, Gabriel - VALLO, Martin - DOBROČKA, Edmund - RÝGER, Ivan - VINCZE, A. AlGaIn/GaN high electron mobility transistors with nickel oxide based gates formed by high temperature oxidation. In *Applied Physics Letters*, 2012, vol. 100, 092105. (3.844 - IF2011). (2012 - Current Contents). ISSN 0003-6951.
- Citácie:
1. [1.1] LEE, C.S. - HSU, W.C. - CHOU, B.Y. - LIU, H.Y. - YANG, C.L. - SUN, W.C. - WEI, S.Y. - YU, S.M. - WU, C.L. In *IEEE TRANSACTIONS ON ELECTRON DEVICES. MAY 2015*, vol. 62, no. 5, p. 1460-1466., WOS
2. [1.1] LEE, C.S. - LIU, H.Y. - HSU, W.C. - WU, T.T. - HUANG, H.S. - CHEN, S.F. - YANG, Y.C. - CHIANG, B.C. - CHANG, H.C. In *2015 IEEE 11TH INTERNATIONAL CONFERENCE ON POWER ELECTRONICS AND DRIVE SYSTEMS (PEDS 2015)*. 2015, p. 194-196., WOS
3. [1.1] OSVALD, J. - STOKLAS, R. - KORDOS, P. In *PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS. MAY 2015*, vol. 252, no. 5, SI, p. 996-1000., WOS
- ADCA231 LALINSKÝ, Tibor - VANKO, Gabriel - VINCZE, A. - HAŠČÍK, Štefan - OSVALD, Jozef - DONOVAL, D. - TOMÁŠKA, M. - KOSTIČ, Ivan. Effect of fluorine interface redistribution on performance of AlGaIn/GaN HEMTs. In *Microelectronic Engineering*, 2011, vol. 88, p. 166-169. (1.569 - IF2010). (2011 - Current Contents). ISSN 0167-9317.
- Citácie:
1. [1.1] LOGHMANY, Alireza - VALIZADEH, Pouya. *Alternative isolation-feature geometries and polarization-engineering of polar AlGaIn/GaN HFETs*. In *SOLID-STATE ELECTRONICS. ISSN 0038-1101, 2015, vol. 103, no., pp. 162-166.*, WOS
- ADCA232 LALINSKÝ, Tibor - DRŽÍK, Milan - CHLPÍK, J. - KRNÁČ, M. - HAŠČÍK, Štefan - MOZOLOVÁ, Želmíra - KOSTIČ, Ivan. Thermo-mechanical characterization of micromachined GaAs-based thermal converter using contactless optical methods. In *Sensors and Actuators A*, 2005, vol. 123-124, p. 99-105.
- Citácie:
1. [1.1] HAN, Xu - ZHANG, Haijun - XU, Rui - WANG, Shuying - QIN, Chun. *Theoretical model of an optothermal microactuator directly driven by laser beams*. In *JOURNAL OF MICROMECHANICS AND MICROENGINEERING. ISSN 0960-1317, 2015, vol. 25, no. 7, pp.*, WOS
2. [1.1] SHI, B. - ZHANG, H. J. - WANG, B. - YI, F. T. - JIANG, J. Z. - ZHANG, D. X. *Dynamic properties of a metal photo-thermal micro-actuator*. In *APPLIED OPTICS. ISSN 1559-128X, 2015, vol. 54, no. 6, pp. 1369.*, WOS
3. [1.2] HAN, Xu - XU, Rui - WANG, Shu Ying - ZHANG, Hai Jun. *Method of optothermal microactuator based on dual laser beams*. In *Guangdianzi Jiguang/Journal of Optoelectronics Laser. ISSN 10050086, 2015-01-01, 26, 1, pp. 43-47.*, SCOPUS
- ADCA233 LAPIN, Juraj - PELACHOVÁ, Tatiana - WITUSIEWICZ, V.T. - DOBROČKA, Edmund. Effect of long-term ageing on microstructure stability and lattice parameters of coexisting phases in intermetallic Ti-46Al-8Ta alloy. In *Intermetallics*, 2011, vol. 19, p.121-124. (2.335 - IF2010). (2011 - Current Contents, WOS, SCOPUS). ISSN 0966-9795.
- Citácie:
1. [1.1] BOLZ, S. - OEHRING, M. - LINDEMANN, J. - PYCZAK, F. - PAUL, J. - STARK, A. - LIPPMANN, T. - SCHRUEFER, S. - ROTH-FAGARASEANU, D. - SCHREYER, A. - WEISS, S. *Microstructure and mechanical properties of a forged beta-solidifying gamma TiAl alloy in different heat treatment conditions*. In *INTERMETALLICS. ISSN 0966-9795, 2015, vol. 58, no., pp. 71.*, WOS
- ADCA234 LAURENČIKOVÁ, Agáta - HASENÖHRL, Stanislav - ELIÁŠ, Peter - STOKLAS, Roman - BLAHO, Michal - NOVOTNÝ, I. - KRIŽANOVÁ, Zuzana - NOVÁK, Jozef. Ohmic contacts to p-GaP/n-ZnO core/shell nanowires based on Au metallization. In *Applied Surface Science*, 2013, vol. 269, p. 60-64. (2.112 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0169-4332.

- Citácie:
1. [1.2] Opris, I. *In Recent advances on the modular organization of the cortex* Eds: M.F. Casanova, I. Opris Springer 2015 ISBN: 978-94-017-9899-0 pp. 339-366, SCOPUS
- ADCA235 LAURENČIKOVÁ, Agáta - SOJKOVÁ, Michaela - CHROMIK, Štefan - ŠTRBÍK, Vladimír - KOSTIČ, Ivan. TI-based patterned superconducting structures: fabrication and study. In Superconductor Science and Technology, 2010, vol. 23, art. no. 045007. (2.694 - IF2009). (2010 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
1. [1.1] NARASIMHACHAR, Varun - GOUR, Gilad. *Low-temperature thermodynamics with quantum coherence*. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2015, vol. 6, no., pp., WOS
- ADCA236 LE BOULBAR, E.D. - EDWARDS, M.J. - VITTOZ, S. - VANKO, Gabriel - BRINKFELDT, K. - JOHANDER, P. - LALINSKÝ, Tibor - BOWEN, C.R. - ALLSOPP, D.W.E. Effect of bias conditions on pressure sensors based on AlGaIn/GaN high electron mobility transistor. In Sensors and Actuators A, 2013, vol. 194, p. 247-251. (3.535 - IF2012). (2013 - Current Contents). ISSN 0925-4005.
- Citácie:
1. [1.1] KOCK, H. - CHAPIN, C.A. - OSTERMAIER, C. - HABERLEN, O. - SENESKY, D.G. In SENSORS FOR EXTREME HARSH ENVIRONMENTS. 2014, vol. 9113., WOS
2. [1.1] MAURYA, D. - YAN, Y.K. - PRIYA, S. In ADVANCED MATERIALS FOR CLEAN ENERGY. 2015, p. 143-178., WOS
3. [1.1] YAKUPHANOGLU, F. - SHOKR, F.S. - GUPTA, R.K. - AL-GHAMDI, A.A. - BIN-OMRAN, S. - AL-TURKI, Y. - EL-TANTAWY, F. In JOURNAL OF ALLOYS AND COMPOUNDS. NOV 25 2015, vol. 650, p. 671-675., WOS
- ADCA237 LEVIN, G.A. - MURPHY, J. - HAUGAN, T.J. - ŠOUČ, Ján - KOVÁČ, Ján - KOVÁČ, Pavol. AC losses of copper stabilized multifilament YBCO coated conductors. In IEEE Transactions on Applied Superconductivity, 2013, vol. 23, 6600604. (1.199 - IF2012). (2013 - Current Contents, SCOPUS). ISSN 1051-8223.
- Citácie:
1. [1.1] CAI, X.W. - KESGIN, I. - SELVAMANICKAM, V. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS
2. [1.1] VOJENCIAK, M. - KARIO, A. - RINGSDORF, B. - NAST, R. - VAN DER LAAN, D.C. - SCHEITER, J. - JUNG, A. - RUNTSCH, B. - GOMORY, F. - GOLDACKER, W. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. OCT 2015, vol. 28, no. 10., WOS
- ADCA238 LIDAY, J. - HOTOVÝ, I. - SITTER, H. - SCHMIDEGG, K. - VOGRINČIČ, P. - BONNANI, A. - BREZA, J. - ECKE, G. - VÁVRA, Ivo. Auger electron spectroscopy of Au/NiOx contacts on p-GaN annealed in N-2 and O-2+N-2 ambients. In Applied Surface Science, 2007, vol. 253, p. 3174-3180. (1.440 - IF2006). (2007 - Current Contents). ISSN 0169-4332.
- Citácie:
1. [1.1] ZHANG, Y.D. In PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES. MAY 2015, vol. 69, p. 109-114., WOS
- ADCA239 LOBOTKA, Peter - KUNZO, Pavol - KOVÁČOVÁ, Eva - VÁVRA, Ivo - KRIŽANOVÁ, Zuzana - ŠMATKO, Vasilij - STEJSKAL, J. - KONYUSHENKO, E.N. - OMASTOVÁ, Mária - ŠPITÁLSKY, Zdenko - MÍČUŠÍK, Matej - KRUPA, Igor. Thin polyaniline and polyaniline/carbon nanocomposite films for gas sensing. In Thin Solid Films : international journal on the science and technology of Thin and Thick Films, 2011, vol. 519, p.4123 - 4127. (1.909 - IF2010). (2011 - Current Contents). ISSN 0040-6090.
- Citácie:
1. [1.1] JAISUTTI, R. - EAIPRASERTSAK, K. - OSOTCHAN, T. *Room Temperature Alcohol Sensors based on PANi/MWCNT Composite Thin Film*. In 2015 IEEE SENSORS. 2015, p. 1586-1589., WOS
2. [1.1] KAUSHIK, A. - KUMAR, R. - ARYA, S.K. - NAIR, M. - MALHOTRA, B.D. - BHANSALI, S. *Organic-Inorganic Hybrid Nanocomposite-Based Gas Sensors for Environmental Monitoring*. In CHEMICAL REVIEWS. ISSN 0009-2665, JUN 10 2015, vol. 115, no. 11, p. 4571-4606., WOS
3. [1.1] SINHA, M. - PANDA, S. *Effects of thickness, dopant type and doping levels of flexible nanoscale polyaniline films on responses to gases*. In MATERIALS RESEARCH EXPRESS. ISSN 2053-1591, JUL 2015, vol. 2, no. 7., WOS
4. [1.1] ZHANG, L. - JIAO, W.L. *Synthesis and gas sensing properties of high porosity n-type nickel ferrite thin film assisted by altering magnetic field*. In CURRENT APPLIED PHYSICS. ISSN 1567-1739, JUL 2015, vol. 15, no. 7, p. 789-793., WOS
5. [1.1] ZHANG, L. - JIAO, W.L. *The effect of microstructure on the gas properties of NiFe2O4 sensors: Nanotube and nanoparticle*. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, SEP 2015, vol. 216, p. 293-297., WOS
- ADCA240 LOBOTKA, Peter - DÉRER, Ján - VÁVRA, Ivo - DE JULIÁN FERNANDEZ, C. - MATTEI, G. -

MAZZOLDI, P. Single-electron transport and magnetic properties of Fe-SiO₂ nanocomposites prepared by ion implantation. In *Physical Review B : Condensed Matter*, 2007, vol. 75, 024423-1. (3.107 - IF2006). (2007 - Current Contents, WOS, SCOPUS). ISSN 1550-235X.

Citácie:

1. [1.1] KANAMARU, Y. - ANDO, M. - SUDA, R. - SHIRAKASHI, J. In *2014 IEEE 14TH INTERNATIONAL CONFERENCE ON NANOTECHNOLOGY (IEEE-NANO)*. 2014, p. 719-722., WOS

ADCA241

LÜBBERT, D. - FERRARI, C. - MIKULÍK, P. - PERNOT, P. - HELFEN, L. - VERDI, N. - KORYTÁR, Dušan - BAUMBACH, T. Distribution and Burgers vectors of dislocations in semiconductor wafers investigated by rocking-curve imaging. In *Journal of Applied Crystallography*, 2005, vol. 38, p. 91-96. ISSN 0021-8898.

Citácie:

1. [1.1] THU NHI TRAN THI - DUBOIS, Sebastien - BARUCHEL, Jose - ENJALBERT, Nicolas - FERNANDEZ, Bruno - SCHUELLI, Tobias - LAFFORD, Tamzin A. In *SOLAR ENERGY MATERIALS AND SOLAR CELLS*. APR 2015, vol. 135, SI, p. 17-21., WOS

2. [1.1] TSOUTSOVA, M.G. - OLIVEIRA, V.A. - BARUCHEL, J. - CAMEL, D. - MARIE, B. - LAFFORD, T.A. In *JOURNAL OF APPLIED CRYSTALLOGRAPHY*. JUN 2015, vol. 48, 3, p. 645-654., WOS

3. [1.1] TSOUTSOVA, M.G. - OLIVEIRA, V.A. - CAMEL, D. - BARUCHEL, J. - MARIE, B. - LAFFORD, T.A. In *ACTA MATERIALIA*. APR 15 2015, vol. 88, p. 112-120., WOS

ADCA242

LUBY, Štefan. Dielectric properties of anodic oxides formed on sputtered Ta-Al alloy films. In *Thin Solid Films*, 1976, vol. 36, p. 61-64. ISSN 0040-6090.

Citácie:

1. [1.1] ZAFFORA, A. - DI FRANCO, F. - SANTAMARIA, M. - HABAZAKI, H. - DI QUARTO, F. In *ELECTROCHIMICA ACTA*. OCT 20 2015, vol. 180, p. 666-678., WOS

ADCA243

LUPTÁK, Roman - FRÖHLICH, Karol - ROSOVÁ, Alica - HUŠEKOVÁ, Kristína - ĽAPAJNA, Milan - MACHAJDÍK, Daniel - JERGEL, Matej - ESPINOS, J.P. - MANSILLA, C. Growth of gadolinium oxide films for advanced MOS structure. In *Microelectronic Engineering*, 2005, vol. 80, p. 154-157. ISSN 0167-9317.

Citácie:

1. [1.1] MISHRA, M. - KUPPUSAMI, P. - RAMYA, S. - GANESAN, V. - SINGH, A. - THIRUMURUGESAN, R. - MOHANDAS, E. In *SURFACE & COATINGS TECHNOLOGY*. JAN 25 2015, vol. 262, p. 56-63., WOS

2. [1.1] TIEN, C.Y. - KUEI, P.Y. - CHANG, L.B. - HSU, C.P. In *JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY*. JUL 2015, vol. 10, no. 4, p. 1720-1725., WOS

ADCA244

MAGDOLENOVA, Z. - DRLIČKOVÁ, M. - HENJUM, K. - RUNDÉN-PRAN, E. - TULINSKÁ, J. - BILANICOVÁ, D. - POJANA, G. - KAZIMÍROVÁ, A. - BARANCOKOVÁ, M. - KURICOVÁ, M. - LISKOVA, A. - STARUCHOVÁ, M. - ČIAMPOR, Fedor - VÁVRA, Ivo - LORENZO, Y. - RINNA, A. - FJELLSBO, L. - VOLKOVÁ, K. - MARCOMINI, A. - AMIRY-MOGHADDAM, M. - DUŠINSKÁ, Mária. Coating-dependent induction of cytotoxicity and genotoxicity of iron oxide nanoparticles. In *Nanotoxicology*, 2015, vol. 9, no. S1, p. 44-56. (6.411 - IF2014). (2015 - Current Contents). ISSN 1743-5390.

Citácie:

1. [1.1] CHANG, L.L. - LIU, X.W. - WANG, D.D. - MA, J. - ZHOU, T.Y. - CHEN, Y. - SHENG, R. - HU, Y.Z. - DU, Y. - HE, Q.J. - YANG, B. - ZHU, H. Hypoxia-Targeted Drug Q6 Induces G2-M Arrest and Apoptosis via Poisoning Topoisomerase II under Hypoxia. In *PLOS ONE* Volume: 10 Issue: 12, Article Number: e0144506, 2015, WOS

2. [1.1] COUTO, D. - SOUSA, R. - ANDRADE, L. - LEANDER, M. - LOPEZ-QUINTELA, M.A. - RIVAS, J. - FREITAS, P. - LIMA, M. - PORTO, G. - PORTO, B. - CARVALHO, F. - FERNANDES, E. Polyacrylic acid coated and non-coated iron oxide nanoparticles are not genotoxic to human T lymphocytes. In *TOXICOLOGY LETTERS*. APR 16 2015, vol. 234, no. 2, p. 67-73., WOS

3. [1.1] DUSINSKA, M. - TRAN, L. NanoTEST in a Nutshell. In *NANOTOXICOLOGY*. MAY 2015, vol. 9, p. 1-4., WOS

4. [1.1] GUERARD, M. - BAUM, M. - BITSCH, A. - EISENBRAND, G. - ELHAJOUJI, A. - EPE, B. - HABERMAYER, M. - KAINA, B. - MARTUS, H.J. - PFUHLER, S. - SCHMITZ, C. - SUTTER, A. - THOMAS, A.D. - ZIEMANN, C. - FROETSCHL, R. Assessment of mechanisms driving non-linear dose-response relationships in genotoxicity testing. In *MUTATION RESEARCH-REVIEWS IN MUTATION RESEARCH*. JAN-MAR 2015, vol. 763, p. 181-201., WOS

5. [1.1] HUK, A. - IZAK-NAU, E. - EL YAMANI, N. - UGGERUD, H. - VADSET, M. - ZASONSKA, B. - DUSCHL, A. - DUSINSKA, M. Impact of nanosilver on various DNA lesions and HPRT gene mutations - effects of charge and surface coating. In *PARTICLE AND FIBRE TOXICOLOGY*. JUL 24 2015, vol. 12., WOS

6. [1.1] PATIL, U.S. - ADIREDDY, S. - JAISWAL, A. - MANDAVA, S. - LEE, B.R. - CHRISEY,

- D.B. In Vitro/In Vivo Toxicity Evaluation and Quantification of Iron Oxide Nanoparticles. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. OCT 2015, vol. 16, no. 10, p. 24417-24450., WOS*
7. [1.1] SHANNAHAN, J.H. - SOWRIRAJAN, H. - PERSAUD, I. - PODILA, R. - BROWN, J.M. *Impact of Silver and Iron Nanoparticle Exposure on Cholesterol Uptake by Macrophages. JOURNAL OF NANOMATERIALS Article Number: 127235, 2015, WOS*
- ADCA245 MACHAJDÍK, Daniel - KOBZEV, A.P. - FRÖHLICH, Karol. Complementarity of X-ray diffraction and RBS in thin film characterization. In Vacuum, 2005, vol. 78, p. 455-461.
Citácie:
1. [1.1] GHOBADI, N. - HATAM, E.G. In JOURNAL OF CRYSTAL GROWTH. MAY 15 2015, vol. 418, p. 111-114., WOS
- ADCA246 MAJCHRÁK, Peter - DÉRER, Ján - LOBOTKA, Peter - VÁVRA, Ivo - FRAIT, Z. - HORVÁTH, D. Ferromagnetic resonance study of exchange and dipolar interactions in discontinuous multilayers. In Journal of Applied Physics, 2007, vol. 101, art. No. 113911. (2.316 - IF2006). (2007 - Current Contents, SCOPUS). ISSN 0021-8979.
Citácie:
1. [1.1] YALCIN, O. - UNLUER, S. - KAZAN, S. - OZDEMIR, M. - ONER, Y. In JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS. JAN 1 2015, vol. 373, p. 144-150., WOS
- ADCA247 MAJOROŠ, Milan - GLOWACKI, B.A. - CAMPBELL, A.M. - LEVIN, C.A. - BARNES, P.N. - POLÁK, Milan. AC losses in striated YBCO coated conductors. In IEEE Transactions on Applied Superconductivity, 2005, vol. 15, p. 2819-2822.
Citácie:
1. [1.1] DEMENCIK, E. - GRILLI, F. - KARIO, A. - NAST, R. - JUNG, A. - VOJENCIAK, M. - SCHEITER, J. - GOLDACKER, W. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS
2. [1.1] TAKACS, S. In CRYOGENICS. JAN 2015, vol. 65, p. 1-4., WOS
3. [1.1] VOJENCIAK, M. - KARIO, A. - RINGSORF, B. - NAST, R. - VAN DER LAAN, D.C. - SCHEITER, J. - JUNG, A. - RUNTSCH, B. - GOMORY, F. - GOLDACKER, W. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. OCT 2015, vol. 28, no. 10., WOS
- ADCA248 MAJOROŠ, Milan - MARTINI, L. - ZANNELLA, S. Lower critical magnetic field H_{C1} and intergranular of Bi-2223/Ag concentric tapes. In Physica C. Superconductivity and its applications, 1997, vol. 282-287, p. 2205. (1.723 - IF1996). (1997 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.
Citácie:
1. [1.1] MUNE, P. - HERNANDEZ-WOLPEZ, M. - CRUZ-GARCIA, A. - JARDIM, R.J. In REVISTA CUBANA DE FISICA. 2015, vol. 32, no. 1, p. 53-55., WOS
- ADCA249 MAJOROŠ, Milan - JANŠÁK, Lubomil - ZANNELLA, S. - CURCIO, F. - LA CASCIA, P. - OTTOBONI, V. - FRIEND, C.M. - LELAY, L. - GLOWACKI, B.A. - CAMPBELL, A.M. Temperature dependence of transport ac losses in Bi-2223/Ag multifilamentary tapes. In Physica C : Superconductivity and Its Applications, 1998, vol. 310, p. 6-11. (2.199 - IF1997). (1998 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.
Citácie:
1. [1.1] LI, S. - CHEN, D.X. - FAN, Y. - FANG, J. In PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS. JAN 15 2015, vol. 508, p. 12-16., WOS
- ADCA250 MAJOROŠ, Milan - GLOWACKI, B.A. - CAMPBELL, A.M. Modelling of the influence of magnetic screening on minimisation of transport AC losses in multifilamentary superconductors. In IEEE Transactions on Applied Superconductivity, 2001, vol. 11, no. 1, p. 2780-2783. (0.791 - IF2000).
Citácie:
1. [1.1] AINSLIE, M.D. - FUJISHIRO, H. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. MAY 2015, vol. 28, no. 5., WOS
- ADCA251 MAJOROŠ, Milan - GLOWACKI, B.A. - CAMPBELL, A.M. - APPERLEY, M. - DARMANN, F. Transport ac losses in (Bi, Pb)SrCaCuO-2223/Ag multifilamentary tapes with different filament arrangements. In Physica C, 1999, vol. 323, p. 125-136. (1.086 - IF1998). (1999 - Current Contents). ISSN 0921-4534.
Citácie:
1. [1.1] MA, Y.H. - XU, J. - YAO, Z. - LI, Z.Y. - JIN, Z. - HONG, Z. - RYU, K. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS
- ADCA252 MAJOROŠ, Milan. Hysteresis losses at a gap in a thin sheet of hard superconductor carrying alternating transport current. In Physica C. Superconductivity and its applications, 1996, vol. 272, p. 62. (1.710 - IF1995). (1996 - Current Contents, SCOPUS). ISSN 0921-4534.
Citácie:
1. [1.1] BRAMBILLA, R. - GRILLI, F. In ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK. FEB 2015, vol. 66, no. 1, p. 1-29., WOS

2. [1.1] DENISKINA, N.V. - GETMAN, F.I. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. JAN 2015, vol. 26, no. 1., WOS
3. [1.1] SOLOVYOV, M. - SOUC, J. - GOMORY, F. In *11TH EUROPEAN CONFERENCE ON APPLIED SUPERCONDUCTIVITY (EUCAS2013), PTS 1-4. 2014*, vol. 507., WOS
- ADCA253 MAJOROŠ, Milan - SUMPTION, M.D. - SUSNER, M.A. - COLLINGS, E.W. - ŠOUC, Ján - GÖMÖRY, Fedor - VOJENČIAK, Michal - FISHER, L.M. - KALINOV, A.V. - VOLOSHIN, I.F. AC Magnetization Loss of a YBCO Coated Conductor Measured Using Three Different Techniques. In *IEEE Transactions on Applied Superconductivity*, 2011, vol. 21, p. 3293-3296. (1.035 - IF2010). (2011 - Current Contents, WOS, SCOPUS). ISSN 1051-8223.
- Citácie:
1. [1.1] ZHANG, M. - YUAN, W.J. - KVITKOVIC, J. - PAMIDI, S. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. NOV 2015, vol. 28, no. 11., WOS
2. [1.2] Kowalski, T., Teigelkötter, J., Stock, A., Reis, T. *IEEE Transactions on Applied Superconductivity* 25 (2015), 6963276, SCOPUS
- ADCA254 MARSO, M. - FOX, A. - HEIDELBERG, G. - KORDOŠ, Peter - LÜTH, Hans. Comparison of AlGaIn/GaN MSM varactor diodes based on HFET and MOSHEFT layer structures. In *IEEE Electron Devices Letters*, 2006, vol. 27, p. 945-947. ISSN 0741-3106.
- Citácie:
1. [1.1] GEUM, D.M. - SHIN, S.H. - HONG, S.M. - JANG, J.H. In *IEEE ELECTRON DEVICE LETTERS*. APR 2015, vol. 36, no. 4, p. 306-308., WOS
2. [1.1] TIEN, C.Y. - KUEI, P.Y. - CHANG, L.B. - HSU, C.P. In *JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY*. JUL 2015, vol. 10, no. 4, p. 1720-1725., WOS
- ADCA255 MARSO, M. - HEIDELBERG, G. - INDLEKOFER, K.M. - BERNÁT, J. - FOX, A. - KORDOŠ, Peter - LÜTH, H. Origin of improved RF performance of AlGaIn/GaN MOSHFETs compared to HFETs. In *IEEE Transactions on Electron Devices*, 2006, vol. 53, p. 1517-1523. (2006 - Current Contents). ISSN 0018-9383.
- Citácie:
1. [1.1] FREEDSMAN, J.J. - WATANABE, A. - URAYAMA, Y. - EGAWA, T. In *APPLIED PHYSICS LETTERS*. SEP 7 2015, vol. 107, no. 10., WOS
2. [1.1] HAHN, H. - BENKHELIFA, F. - AMBACHER, O. - BRUNNER, F. - NOCULAK, A. - KALISCH, H. - VESCAN, A. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. FEB 2015, vol. 62, no. 2, p. 538-545., WOS
3. [1.1] HSIEH, T.E. - LIN, Y.C. - LIAO, J.T. - LAN, W.C. - CHIN, P.C. - CHANG, E.Y. In *APPLIED PHYSICS EXPRESS*. OCT 2015, vol. 8, no. 10., WOS
4. [1.1] KIM, J.J. - PARK, Y.R. - JANG, H.G. - NA, J.H. - LEE, H.S. - KO, S.C. - JUNG, D.Y. - LEE, H.S. - MUN, J.K. - LIM, J.H. - YANG, J.W. In *JAPANESE JOURNAL OF APPLIED PHYSICS*. MAR 2015, vol. 54, no. 3., WOS
- ADCA256 MARTINEZ, E. - LERA, F. - MARTÍNEZ-LÓPEZ, M. - YANG, Y. - SCHLACHTER, S. - LEZZA, P. - KOVÁČ, Pavol. Quench development and propagation in metal/MgB₂ conductors. In *Superconductor Science and Technology*, 2006, vol. 19, p. 143-150. (1.896 - IF2005). (2006 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
1. [1.1] BONURA, M. - SENATORE, C. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. NOV 2015, vol. 28, no. 11., WOS
2. [1.1] YE, L.Y. - CRUCIANI, D. - XU, M.F. - MINE, S. - AMM, K. - SCHWARTZ, J. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. MAR 2015, vol. 28, no. 3., WOS
- ADCA257 MARTINEZ, E. - ANGUREL, L.A. - SCHLACHTER, S. - KOVÁČ, Pavol. Transport and magnetic critical currents of Cu-stabilized monofilamentary MgB₂ conductors. In *Superconductor Science and Technology*, 2009, vol. 22, 015014. (1.847 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
1. [1.1] GAJDA, D. - MORAWSKI, A. - ZALESKI, A.J. - HASSLER, W. - NENKOV, K. - RINDFLEISCH, M.A. - ZUCHOWSKA, E. - GAJDA, G. - CZUJKO, T. - CETNER, T. - HOSSAIN, M.S.A. In *JOURNAL OF APPLIED PHYSICS*. MAY 7 2015, vol. 117, no. 17., WOS
2. [1.1] YANG, Y. - LI, G. - SUSNER, M. - SUMPTION, M.D. - RINDFLEISCH, M. - TOMSIC, M. - COLLINGS, E.W. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. DEC 15 2015, vol. 519, p. 118-123., WOS
- ADCA258 MATKOVIČOVÁ, Z. - NGUYEN XUAN, H. - GALEZ, Ph. - BEAUQUIS, S. - ŠTRBÍK, Vladimír - PLESCH, G. The influence of the reaction conditions on the formation of Tl-2223 superconducting films deposited by spray pyrolysis. In *Journal of Physics and Chemistry of Solids*, 2007, vol. 68, p. 1230-1233. (1.164 - IF2006). (2007 - Current Contents).
- Citácie:
1. [1.2] Wesche, R.: *Physical Properties of High-Temperature Superconductors*. Wiley & Sons,

- Ltd: 2015. ISBN: 978-9971-5-0683-4., SCOPUS*
- ADCA259 MENGHESSO, G. - RAMPAZZO, F. - KORDOŠ, Peter - VERZELLESI, G. - ZANONI, E. Current-collapse and hot-electron-reliability characteristics of unpassivated GaN/AlGaN/GaN HEMTs. In IEEE Transactions on Electron Devices, 2006, vol. 53, p. 2932. (2006 - Current Contents). ISSN 0018-9383.
- Citácie:
1. [1.1] ANAND, M.J. - NG, G.I. - ARULKUMARAN, S. - KUMAR, C.M.M. - RANJAN, K. - VICKNESH, S. - FOO, S.C. - SYAMAL, B. - ZHOU, X. In APPLIED PHYSICS LETTERS. FEB 23 2015, vol. 106, no. 8., WOS
 2. [1.1] ANAND, M.J. - NG, G.I. - ARULKUMARAN, S. - SYAMAL, B. - ZHOU, X. In APPLIED PHYSICS EXPRESS. OCT 2015, vol. 8, no. 10., WOS
 3. [1.1] CAO, G. - ANSARI, A. - KIM, H.J. In IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT. JUL 2015, vol. 64, no. 7, p. 1977-1986., WOS
 4. [1.1] CHIU, H.C. - YANG, C.W. - WANG, H.C. - KAO, H.L. - CHEN, N.C. - CHIEN, F.T. - KAN, M.C. In Applied Physics Express. JAN 2015, vol. 8, no. 1., WOS
 5. [1.1] KANG, T.S. - REN, F. - GILA, B.P. - PEARTON, S.J. - PATRICK, E. - CHENEY, D.J. - LAW, M. - ZHANG, M.L. In JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B. NOV 2015, vol. 33, no. 6., WOS
 6. [1.1] LEE, G.Y. - TU, P.T. - CHYI, J.I. In APPLIED PHYSICS EXPRESS. JUN 2015, vol. 8, no. 6., WOS
 7. [1.1] LIAO, W.C. - CHEN, C.H. - HSU, C.W. - HSIN, Y.M. - CHYI, J.I. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. 2015, vol. 162, no. 8, p. H522-H526., WOS
 8. [1.1] LIU, X.K. - LIU, Z.H. - PANNIRSELVAM, S. - PAN, J.S. - LIU, W. - JIA, F. - LU, Y.M. - LIU, C. - YU, W.J. - HE, J. - TAN, L.S. In JOURNAL OF ALLOYS AND COMPOUNDS. JUL 5 2015, vol. 636, p. 191-195., WOS
 9. [1.1] MASE, S. - EGAWA, T. - WAKEJIMA, A. In APPLIED PHYSICS EXPRESS. MAR 2015, vol. 8, no. 3., WOS
 10. [1.1] TANG, C. - XIE, G. - SHENG, K. In MICROELECTRONICS RELIABILITY. FEB 2015, vol. 55, no. 2, p. 347-351., WOS
 11. [1.1] YAHIA, M.E. - TOLBA, R.E. - EL-BEDWEHY, N.A. - EL-LABANY, S.K. - MOSLEM, W.M. In SCIENTIFIC REPORTS. JUL 24 2015, vol. 5., WOS
 12. [1.2] Ray, W.B., Schrock, J.A., Bilbao, A.V., Kelley, M., Lacouture, S., Hirsch, E., Bayne, S.B. Digest of Technical Papers-IEEE International Pulsed Power Conference Volume 2015-October, 12 October 2015, Article number 7297037, SCOPUS
- ADCA260 MEŠKO, M. - VRETNÁR, Viliam - KOTRUSZ, P. - HULMAN, Martin - ŠOLTÝS, Ján - SKÁKALOVÁ, V. Carbon nanowalls synthesis by means of atmospheric dcPECVD method. In Physica Status Solidi B, 2012, vol. 249, no. 12, p. 2625-2628. (1.316 - IF2011). (2012 - Current Contents). ISSN 0370-1972.
- Citácie:
1. [1.1] BO, Zheng - YANG, Huachao - LV, Peng - QIAN, Jiajing - YU, Kehan - LU, Ganhua - WEI, Wei - YAN, Jianhua - CEN, Kefa. In PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS. OCT 2015, vol. 252, no. 10, p. 2236-2244., WOS
 2. [1.1] MICHNIAK, Pavol - MARTON, Marian - BEHUL, Miroslav - REDHAMMER, Robert - VANKO, Gabriel. ANALYSIS OF CARBON NANOWALLS PREPARED BY HOT FILAMENT CHEMICAL VAPOUR DEPOSITION. In NANOCON 2015: 7TH INTERNATIONAL CONFERENCE ON NANOMATERIALS RESEARCH & APPLICATION, 2015, pp. 143-148., WOS
 3. [1.1] MISHIN, M. V. - PROTOPOPOVA, V. S. - ALEXANDROV, S. E. Plasmachemical synthesis in low-temperature atmospheric pressure plasma. In RUSSIAN JOURNAL OF GENERAL CHEMISTRY. ISSN 1070-3632, 2015, vol. 85, no. 5, pp. 1209., WOS
 4. [1.1] ZOU, H. H. - BAI, H. - YU, J. H. - WANG, Y. - LIAO, Q. L. - NISHIMURA, K. - ZENG, L. M. - JIANG, N. Architecting graphene nanowalls on diamond powder surface. In COMPOSITES PART B-ENGINEERING. ISSN 1359-8368, 2015, vol. 73, pp. 57-60., WOS
- ADCA261 MIKULICS, M. - MARSO, M. - WU, S.C. - FOX, A. - LEPSA, M. - GRÜTZMACHER, D. - SOBOLEWSKI, R. - KORDOŠ, Peter. Sensitivity enhancement of metal-semiconductor-metal photodetectors on low-temperature-grown GaAs using alloyed contacts. In IEEE Photonics Technology Letters, 2008, vol. 20, p. 1054-1056. (2.015 - IF2007). (2008 - Current Contents).
- Citácie:
1. [1.1] LIU, X.H. - LI, M.L. - CHEN, Z.G. - JIA, G. - BIAN, T.L. - LI, Y. In SELECTED PAPERS FROM CONFERENCES OF THE PHOTOELECTRONIC TECHNOLOGY COMMITTEE OF THE CHINESE SOCIETY OF ASTRONAUTICS 2014, PT II. 2015, vol. 9522., WOS
- ADCA262 MIKULICS, M. - MICHAEL, E. - SCHIEDER, R. - STUTZKI, J. - GÜSTEN, R. - MARSO, M. - VAN DER HART, A. - BOCHEM, H.P. - LÜTH, Hans - KORDOŠ, Peter. Travelling-wave photomixer with recessed interdigitated contacts on low-temperature-grown GaAs. In Applied

- Physics Letters. - American Institute of Physics, 2006, vol. 88, p. 041118. (4.127 - IF2005). (2006 - Current Contents, SCOPUS). ISSN 0003-6951.
- Citácie:
 1. [1.1] ALVAREZ, A.D. - XU, T. - TUTUNCUOGLU, G. - DEMONCHAUX, T. - NYS, J.P. - BERTHE, M. - MATTEINI, F. - POTTS, H.A. - TROADEC, D. - PATRIARCHE, G. - LAMPIN, J.F. - COINON, C. - MORRAL, A.F.I. - DUNIN-BORKOWSKI, R.E. - EBERT, P. - GRANDIDIER, B. In *NANO LETTERS*. OCT 2015, vol. 15, no. 10, p. 6440-6445., WOS
- ADCA263 MIKULICS, M. - FOX, A. - MARSO, M. - GRÜTZMACHER, D. - DONOVAL, D. - KORDOŠ, Peter. Electrical and structural characterization of AlGaIn/GaN field-effect transistors with recessed gate. In *Vacuum*, 2012, vol. 86, p. 754-756. (1.317 - IF2011). (2012 - Current Contents). ISSN 0042-207X.
- Citácie:
 1. [1.1] LIU, Y. - WANG, J.Y. - XU, Z. - CAI, J.B. - WANG, M.J. - YU, M. - XIE, B. - WU, W.G. In *RARE METALS*. JAN 2015, vol. 34, no. 1, p. 1-5., WOS
 2. [1.1] SHRESTHA, N.M. - WANG, Y.Y. - LI, Y.M. - CHANG, E.Y. In *VACUUM*. AUG 2015, vol. 118, SI, p. 59-63., WOS
- ADCA264 MIKULICS, M. - STOKLAS, Roman - DADGAR, A. - GREGUŠOVÁ, Dagmar - NOVÁK, Jozef - GRÜTZMACHER, D. - KROST, A. - KORDOŠ, Peter. InAlN/GaN/Si heterostructures and field-effect transistors with lattice matched and tensely or compressively strained InAlN. In *Applied Physics Letters*, 2010, vol. 97, 173505. (3.554 - IF2009). (2010 - Current Contents, SCOPUS). ISSN 0003-6951.
- Citácie:
 1. [1.1] FREEDSMAN, J.J. - WATANABE, A. - URAYAMA, Y. - EGAWA, T. In *APPLIED PHYSICS LETTERS*. SEP 7 2015, vol. 107, no. 10., WOS
- ADCA265 MISJÁK, F. - NAGY, K.H. - LOBOTKA, Peter - RADNÓCZI, G. Electron scattering mechanisms in Cu-Mn films for interconnect applications. In *Journal of Applied Physics*, 2014, vol. 116, 083507. (2.185 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0021-8979.
- Citácie:
 1. [1.1] CAO FEI - WU GAO-HUI - JIANG LONG-TAO - CHEN GUO-QIN. In *VACUUM*. DEC 2015, vol. 122, A, p. 122-126., WOS
- ADCA266 MITRÓOVÁ, Zuzana - TOMAŠOVIČOVÁ, Natália - TIMKO, Milan - KONERACKÁ, Martina - KOVÁČ, Jozef - JADZYN, Jan - VÁVRA, Ivo - ÉBER, Nándor - TÓTH-KATONA, Tibor - BEAUGNON, Eric - CHAUD, Xavier - KOPČANSKÝ, Peter. The sensitivity of liquid crystal doped with functionalized carbon nanotubes to external magnetic fields. In *New Journal of Chemistry*, 2011, vol. 35, no. 6, p. 1260-1264. (2.631 - IF2010). (2011 - Current Contents, WOS, SCOPUS). ISSN 1144-0546.
- Citácie:
 1. [1.1] BOYCHUK, A.N. - ZAKHLEVNYKH, A.N. - MAKAROV, D.V. In *JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS*. SEP 2015, vol. 121, no. 3, p. 541-552., WOS
 2. [1.1] ZAKHLEVNYKH, A.N. - PETROV, D.A. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*. NOV 1 2015, vol. 393, p. 517-525., WOS
- ADCA267 MOEREKE, J. - ĽAPAJNA, Milan - UREN, M.J. - PEI, Y. - MISHRA, Umesh K. - KUBALL, M. Effects of gate shaping and consequent process changes on AlGaIn/GaN HEMT reliability. In *Physica status solidi A. Applications and materials science*, 2013, vol. 209, p. 2646-2652. (1.469 - IF2012). (2013 - Current Contents). ISSN 1862-6300.
- Citácie:
 1. [1.1] HAHN, H. - BENKHELIFA, F. - AMBACHER, O. - BRUNNER, F. - NOCULAK, A. - KALISCH, H. - VESCAN, A. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. FEB 2015, vol. 62, no. 2, p. 538-545., WOS
 2. [1.1] HAHN, H. - REUTERS, B. - GEIPEL, S. - SCHAUERTE, M. - BENKHELIFA, F. - AMBACHER, O. - KALISCH, H. - VESCAN, A. In *JOURNAL OF APPLIED PHYSICS*. MAR 14 2015, vol. 117, no. 10., WOS
- ADCA268 MOLNÁR, M. - DONOVAL, D. - KUZMÍK, Ján - MAREK, J. - CHVÁLA, A. - PRÍBYTNÝ, P. - MIKOLÁŠEK, M. - RENDEK, K. - PALANKOVSKI, V. Simulation study of interface traps and bulk traps in n++GaIn/InAlN/AlN/GaN high electron mobility transistors. In *Applied Surface Science*, 2014, vol. 312, p. 157-161. (2.538 - IF2013). (2014 - Current Contents). ISSN 0169-4332.
- Citácie:
 1. [1.1] HUANG, H.L. - LIANG, Y.C. In *SOLID-STATE ELECTRONICS*. DEC 2015, vol. 114, p. 148-154., WOS
- ADCA269 MOŠKO, Martin - MOŠKOVÁ, Antónia. Ensemble Monte Carlo simulation of electron-electron scattering: improvements of conventional methods. In *Physical Review B*, 1991, vol. 44, p. 10794-10803.
- Citácie:

1. [1.1] SPAGNOLO, B. - VALENTI, D. - GUARCELLO, C. - CAROLLO, A. - ADORNO, D.P. - SPEZIA, S. - PIZZOLATO, N. - DI PAOLA, B. In *CHAOS SOLITONS & FRACTALS. DEC 2015, vol. 81, B, p. 412-424., WOS*
- ADCA270 MOŠKO, Martin - KÁLNA, Karol. Carrier capture into a GaAs quantum well with a separate confinement region: comment on quantum and classical aspects. In *Semiconductor Science and Technology*, 1999, vol. 14, p. 790-796. (1.340 - IF1998). (1999 - Current Contents). ISSN 0268-1242.
Citácie:
1. [1.1] VALLONE, M. - BERTAZZI, F. - GOANO, M. - GHIONE, G. In *PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS. MAY 2015, vol. 252, no. 5, SI, p. 971-976., WOS*
- ADCA271 MOŠKO, Martin - VAGNER, Pavol. Born approximation versus the exact approach to carrier-impurity collisions in a one-dimensional semiconductor: Impact on the mobility. In *Physical Review B*, 1999, vol. 59, no. 16, p. R10445-R10448. (2.842 - IF1998). (1999 - Current Contents).
Citácie:
1. [1.1] SANO, N. In *JOURNAL OF APPLIED PHYSICS. DEC 28 2015, vol. 118, no. 24., WOS*
- ADCA272 MOŠKOVÁ, Antónia - MOŠKO, Martin. Exchange carrier-carrier scattering of photoexcited spin-polarized carriers in GaAs quantum wells: Monte Carlo study. In *Physical Review B*, 1994, vol. 49, p. 7443.
Citácie:
1. [1.1] SPAGNOLO, B. - VALENTI, D. - GUARCELLO, C. - CAROLLO, A. - ADORNO, D.P. - SPEZIA, S. - PIZZOLATO, N. - DI PAOLA, B. In *CHAOS SOLITONS & FRACTALS. DEC 2015, vol. 81, B, p. 412-424., WOS*
- ADCA273 MOŠKOVÁ, Antónia - MOŠKO, Martin - TÓBIK, Jaroslav. Theoretical study of persistent current in a nanoring made of a band insulator. In *Physica status solidi B. Basic solid state physics*, 2013, vol. 250, p. 147-159. (1.489 - IF2012). (2013 - Current Contents). ISSN 0370-1972.
Citácie:
1. [1.1] SANKAR, I.V. - MONISHA, P.J. - SIL, S. - CHATTERJEE, A. In *PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES. SEP 2015, vol. 73, p. 175-180., WOS*
- ADCA274 MURPHY, J. - MULLINS, J.M. - BARNES, P.N. - HAUGAN, T.J. - LEVIN, G.A. - MAJOROŠ, Milan - SUMPTION, M.D. - COLLINGS, E.W. - POLÁK, Milan - MOZOLA, Pavol. Experiment setup for calorimetric measurements of losses in HTS coils due to AC current and external magnetic fields. In *IEEE Transactions on Applied Superconductivity*, 2013, vol. 23, p. 4701505. (1.199 - IF2012). (2013 - Current Contents, SCOPUS). ISSN 1051-8223.
Citácie:
1. [1.1] AMARO, N. - SOUC, J. - MURTA-PINA, J. - MARTINS, J. - CEBALLOS, J.M. - GOMORY, F. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS*
- ADCA275 NEČAS, V. - LY ANH, T. - SEKÁČOVÁ, Mária - DARMO, Juraj - DUBECKÝ, František - PERĐOCHOVÁ, A. Investigation of performance of semi-insulating GaAs detectors irradiated by high ϕ doses. In *Nuclear Instruments and Methods in Physics Research A. Accelerators, Spectrometers, Detectors and Associated Equipment*, 2001, vol. 458, p. 348-351. (0.964 - IF2000). (2001 - Current Contents, SCOPUS). ISSN 0168-9002.
Citácie:
1. [1.1] RANA, P. - CHAUHAN, R.P. In *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS. APR 15 2015, vol. 349, p. 50-55., WOS*
- ADCA276 NOVÁK, Jozef - NOVOTNÝ, I. - KOVÁČ, Jaroslav - ELIÁŠ, Peter - HASENÖHRL, Stanislav - KRIŽANOVÁ, Zuzana - VÁVRA, Ivo - STOKLAS, Roman. Preparation of thin Ga-doped ZnO layers for core-shell GaP/ZnO nanowires. In *Applied Surface Science*, 2012, vol. 258, p. 7607-7611. (2.103 - IF2011). (2012 - Current Contents). ISSN 0169-4332.
Citácie:
1. [1.1] JIANG, Y.R. - LI, C. - CAO, W.W. - JIANG, Y.R. - SHANG, S.Y. - XIA, C.X. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS. 2015, vol. 17, no. 26, p. 16784-16790., WOS*
2. [1.1] MOHAMMAD, R. - KATIRCIOGLU, S. In *PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES. SEP 2015, vol. 73, p. 213-219., WOS*
- ADCA277 NURGALIEV, T. - BLAGOEV, B. - MATEEV, E. - NESHKOV, L. - ŠTRBÍK, Vladimír - USPENSKAYA, L. - NEDKOV, I. - CHROMIK, Štefan. Investigation of DC current injection effect on the microwave characteristics of HTS YBCO microstrip resonators. In *Physica C. Superconductivity and its applications*, 2014, vol. 498, p. 1-4. (1.110 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.
Citácie:
1. [1.2] Timerfayaz, N., Ludmila, U. *Solid State Phenomena 233-234, (2015) 662-665, SCOPUS*
- ADCA278 OBOŇA, Jozef Vincenc - DE TERESA, J.M. - CÓRDOBA, R. - FERNANDEZ-PACHECO, A. - IBARRA, M.R. Creation of stable nanoconstrictions in metallic thin films via progressive narrowing

by focused-ion-beam technique and in situ control of resistance. In *Microelectronic Engineering*, 2009, vol. 86, p. 639-641. (1.583 - IF2008). (2009 - Current Contents). ISSN 0167-9317.

Citácie:

1. [1.1] HAN, Z.M. - VEHKAMAKI, M. - LESKELA, M. - RITALA, M. In *NANOTECHNOLOGY*. MAR 21 2014, vol. 25, no. 11., WOS

ADCA279

OSTERMAIER, C. - POZZOVIVO, G. - CARLIN, J.-F. - BASNAR, B. - SCHRENK, W. - DOUVRY, Y. - GAQUIERE, C. - ČIČO, Karol - FRÖHLICH, Karol - GONSCHOREK, M. - GRANDJEAN, N. - STRASSER, G. - POGANY, D. - KUZMÍK, Ján. Ultrathin InAlN/AlN barrier HEMT with high performance in normally off operation. In *IEEE Electron Devices Letters*, 2009, vol. 30, p. 1030-1032. (3.049 - IF2008). (2009 - Current Contents). ISSN 0741-3106.

Citácie:

1. [1.1] CHIU, H.C. - WU, C.H. - CHI, J.F. - CHYI, J.I. - LEE, G.Y. In *MICROELECTRONICS RELIABILITY*. JAN 2015, vol. 55, no. 1, p. 48-51., WOS

2. [1.1] GEUM, D.M. - SHIN, S.H. - HONG, S.M. - JANG, J.H. In *IEEE ELECTRON DEVICE LETTERS*. APR 2015, vol. 36, no. 4, p. 306-308., WOS

3. [1.1] MEDJDOUB, F. - HERBECQ, N. - LINGE, A. - ZEGAOU, M. In *2015 IEEE INTERNATIONAL ELECTRON DEVICES MEETING (IEDM)*. 2015., WOS

4. [1.1] MEDJDOUB, F. - KABOUCHE, R. - LINGE, A. - GRIMBERT, B. - ZEGAOU, M. - GAMARRA, P. - LACAM, C. - TORDJMAN, M. - DI FORTE-POISSON, M.A. In *APPLIED PHYSICS EXPRESS*. OCT 2015, vol. 8, no. 10., WOS

5. [1.1] ZHANG, P. - ZHAO, S.L. - HOU, B. - WANG, C. - ZHENG, X.F. - MA, X.H. - ZHANG, J.C. - HAO, Y. In *CHINESE PHYSICS B*. MAR 2015, vol. 24, no. 3., WOS

ADCA280

OSVALD, Jozef. Electronic properties of a near surface Si[?]-doped GaAs under an applied electric field. In *Journal of Physics D: Applied Physics*, 2004, vol. 37, p. 2655-2659. (2004 - Current Contents, SCOPUS). ISSN 0022-3727.

Citácie:

1. [1.1] DAKHLAOU, H. - ALMANSOUR, S. - ALGRAFY, E. In *SUPERLATTICES AND MICROSTRUCTURES*. JAN 2015, vol. 77, p. 196-208., WOS

ADCA281

OSVALD, Jozef. Intersecting behaviour of nanoscale Schottky diodes I-V curves. In *Solid State Communications : an international journal*, 2006, vol. 138, p. 39-42. (1.489 - IF2005). (2006 - Current Contents, WOS, SCOPUS). ISSN 0038-1098.

Citácie:

1. [1.1] LIN, Y.J. - CHO, W.M. - CHANG, H.C. - CHEN, Y.H. In *CURRENT APPLIED PHYSICS*. MAR 2015, vol. 15, no. 3, p. 213-218., WOS

2. [1.1] RUZIN, A. In *JOURNAL OF APPLIED PHYSICS*. APR 28 2015, vol. 117, no. 16., WOS

3. [1.1] RUZIN, A. In *JOURNAL OF APPLIED PHYSICS*. NOV 28 2015, vol. 118, no. 20., WOS

ADCA282

OSVALD, Jozef. Series resistance influence on intersecting behaviour of inhomogeneous Schottky diodes I-V curves. In *Solid-State Electronics*, 2006, vol. 50, p. 228-231. (2006 - Current Contents). ISSN 0038-1101.

Citácie:

1. [1.1] AL-GHAMDI, A.A. - DERE, A. - TATAROGLU, A. - ARIF, B. - YAKUPHANOGLU, F. - EL-TANTAWY, F. - FAROOQ, W.A. In *JOURNAL OF ALLOYS AND COMPOUNDS*. NOV 25 2015, vol. 650, p. 692-699., WOS

2. [1.1] AL-HAZMI, F. - YAKUPHANOGLU, F. In *JOURNAL OF ALLOYS AND COMPOUNDS*. DEC 25 2015, vol. 653, p. 561-569., WOS

3. [1.1] LATRECHE, A. - OUENNOUGH, Z. In *INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS*. MAR-APR 2015, vol. 28, no. 2, p. 231-238., WOS

4. [1.1] RAINY, R.H.A. In *JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS*. DEC 2015, vol. 10, no. 6, p. 739-744., WOS

5. [1.1] TATAROGLU, A. - TUNCER, H. - AL-GHAMDI, A.A. - DERE, A. - ARIF, B. - YOL, S. - OZDEMIR, N. - EL-TANTAWY, F. - YAKUPHANOGLU, F. In *SYNTHETIC METALS*. AUG 2015, vol. 206, p. 15-23., WOS

6. [1.1] YAKUPHANOGLU, F. - TATAROGLU, A. - AL-GHAMDI, A.A. - GUPTA, R.K. - AL-TURKI, Y. - SERBETCI, Z. - BIN OMRAN, S. - EL-TANTAWY, F. In *SOLAR ENERGY MATERIALS AND SOLAR CELLS*. FEB 2015, vol. 133, p. 69-75., WOS

ADCA283

OSVALD, Jozef. Influence of lateral current spreading on the apparent barrier parameters of inhomogeneous Schottky diodes. In *Journal of Applied Physics*, 2006, vol. 99, p. 033708. (2.498 - IF2005). (2006 - Current Contents, WOS, SCOPUS). ISSN 0021-8979.

Citácie:

1. [1.1] LATRECHE, A. - OUENNOUGH, Z. In *INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS*. MAR-APR 2015, vol. 28, no. 2, p. 231-238., WOS

- ADCA284 OSVALD, Jozef. New aspects of the temperature dependence of the current in inhomogeneous Schottky diodes. In *Semiconductor Science and Technology*, 2003, vol. 18, p. L24-L26. ISSN 0268-1242.
Citácie:
1. [1.1] GUZELDIR, B. - SAGLAM, M. - ATES, A. - TURUT, A. In *JOURNAL OF ALLOYS AND COMPOUNDS*. APR 5 2015, vol. 627, p. 200-205., WOS
2. [1.1] JYOTHI, I. - JANARDHANAM, V. - HONG, H. - CHOI, C.J. In *MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING*. NOV 2015, vol. 39, p. 390-399., WOS
3. [1.1] KLYUEV, A.V. - YAKIMOV, A.V. - ZHUKOVA, I.S. In *FLUCTUATION AND NOISE LETTERS*. SEP 2015, vol. 14, no. 3., WOS
4. [1.1] LATRECHE, A. - OUENNOUGH, Z. In *INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS*. MAR-APR 2015, vol. 28, no. 2, p. 231-238., WOS
- ADCA285 OSVALD, Jozef. Temperature dependence of barrier height parameters of inhomogeneous Schottky diodes. In *Microelectronic Engineering*, 2009, vol. 86, p. 117-120. (1.583 - IF2008). (2009 - Current Contents). ISSN 0167-9317.
Citácie:
1. [1.1] HENDI, A.A. - EL-ZAIDIA, E.F.M. In *SYNTHETIC METALS*. JAN 2015, vol. 199, p. 388-393., WOS
2. [1.1] MARIL, E. - ALTINDAL, S. - KAYA, A. - KOCYIGIT, S. - USLU, I. In *PHILOSOPHICAL MAGAZINE*. APR 3 2015, vol. 95, no. 10, p. 1049-1068., WOS
3. [1.1] SOLIMAN, I.M. - EL-NAHASS, M.M. - KHALIFA, B.A. In *SYNTHETIC METALS*. NOV 2015, vol. 209, p. 55-59., WOS
4. [1.1] ZHAO, M. - LIU, X.Y. In *CHINESE PHYSICS LETTERS*. APR 2015, vol. 32, no. 4., WOS
- ADCA286 OSVALD, Jozef. Influence of AlGaN/GaN heterojunction parameters on its capacitance-voltage characteristics. In *Journal of Applied Physics*, 2009, vol. 106, art. no. 013708. (2.201 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0021-8979.
Citácie:
1. [1.1] DOGAN, H. - YILDIRIM, N. - ORAK, I. - ELAGOZ, S. - TURUT, A. In *PHYSICA B-CONDENSED MATTER*. JAN 15 2015, vol. 457, p. 48-53., WOS
- ADCA287 OSVALD, Jozef. Numerical study of electrical transport in inhomogeneous Schottky diodes. In *Journal of Applied Physics*, 1999, vol. 85, p. 1935-1942. (1.729 - IF1998). (1999 - Current Contents, WOS, SCOPUS). ISSN 0021-8979.
Citácie:
1. [1.1] DAS, M. - DATTA, J. - DEY, A. - JANA, R. - LAYEK, A. - MIDDYA, S. - RAY, P.P. In *RSC ADVANCES*. 2015, vol. 5, no. 123, p. 101582-101592., WOS
2. [1.1] GORJI, M.S. - CHEONG, K.Y. In *CRITICAL REVIEWS IN SOLID STATE AND MATERIALS SCIENCES*. JUL 4 2015, vol. 40, no. 4, p. 197-222., WOS
3. [1.1] GULLU, O. - TURUT, A. In *ACTA PHYSICA POLONICA A*. SEP 2015, vol. 128, no. 3, p. 383-388., WOS
4. [1.1] GUZELDIR, B. - SAGLAM, M. - ATES, A. - TURUT, A. In *JOURNAL OF ALLOYS AND COMPOUNDS*. APR 5 2015, vol. 627, p. 200-205., WOS
5. [1.1] LATRECHE, A. - OUENNOUGH, Z. In *INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS*. MAR-APR 2015, vol. 28, no. 2, p. 231-238., WOS
- ADCA288 OSVALD, Jozef - BURIAN, Eduard. C-V dependence of inhomogeneous Schottky diodes. In *Solid-State Electronics*, 1998, vol. 42, p. 191-195. (0.500 - IF1997). (1998 - Current Contents). ISSN 0038-1101.
Citácie:
1. [1.1] ORAK, I. - EJDERHA, K. - SONMEZ, E. - ALANYALIOGLU, M. - TURUT, A. In *MATERIALS RESEARCH BULLETIN*. JAN 2015, vol. 61, p. 463-468., WOS
2. [1.1] ORAK, I. - EJDERHA, K. - TURUT, A. In *CURRENT APPLIED PHYSICS*. SEP 2015, vol. 15, no. 9, p. 1054-1061., WOS
- ADCA289 OSVALD, Jozef - DOBROČKA, Edmund. Generalized approach to the parameter extraction from Schottky diodes I-V characteristics. In *Semiconductor Science and Technology*, 1996, vol. 11, p. 1198-1202. (1996 - Current Contents). ISSN 0268-1242.
Citácie:
1. [1.1] KLYUEV, A.V. - YAKIMOV, A.V. - ZHUKOVA, I.S. In *FLUCTUATION AND NOISE LETTERS*. SEP 2015, vol. 14, no. 3., WOS
2. [1.1] MUNTHALI, K.V. - THERON, C. - AURET, F.D. - COELHO, S.M.M. - NJOROG, E. In *JOURNAL OF ELECTRONIC MATERIALS*. OCT 2015, vol. 44, no. 10, p. 3265-3271., WOS
3. [1.1] ORAK, I. - EJDERHA, K. - TURUT, A. In *CURRENT APPLIED PHYSICS*. SEP 2015, vol. 15, no. 9, p. 1054-1061., WOS

- ADCA290 OSVALD, Jozef. Response to "Comment on 'Numerical study of electrical transport in inhomogeneous Schottky diodes' ". In Journal of Applied Physics, 2000, vol. 88, p. 7368-7369. (2.275 - IF1999). ISSN 0021-8979.
Citácie:
1. [1.1] GORJI, M.S. - CHEONG, K.Y. In *CRITICAL REVIEWS IN SOLID STATE AND MATERIALS SCIENCES. JUL 4 2015, vol. 40, no. 4, p. 197-222., WOS*
- ADCA291 OSVALD, Jozef. Influence of deep levels on capacitance-voltage characteristics of AlGaIn/GaN heterostructures. In Journal of Applied Physics, 2011, vol. 110, 073702. (2.079 - IF2010). (2011 - Current Contents). ISSN 0021-8979.
Citácie:
1. [1.1] DOGAN, H. - YILDIRIM, N. - ORAK, I. - ELAGOZ, S. - TURUT, A. In *PHYSICA B-CONDENSED MATTER. JAN 15 2015, vol. 457, p. 48-53., WOS*
2. [1.1] ZHAO, M. - LIU, X.Y. In *CHINESE PHYSICS LETTERS. APR 2015, vol. 32, no. 4., WOS*
- ADCA292 OSVALD, Jozef - HORVÁTH, Zs.J. Theoretical study of the temperature dependence of electrical characteristics of Schottky diodes with an inverse near-surface layer. In Applied Surface Science, 2004, vol. 234, p. 349-354. ISSN 0169-4332.
Citácie:
1. [1.1] GUZELDIR, B. - SAGLAM, M. - ATES, A. - TURUT, A. In *JOURNAL OF ALLOYS AND COMPOUNDS. APR 5 2015, vol. 627, p. 200-205., WOS*
2. [1.1] MOSBAHI, H. - GASSOUMI, M. - TOMSAH, I.B.I. - ALTHOYAIB, S. - GAQUIERE, C. - ZAIDI, M.A. In *JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS. MAY-JUN 2015, vol. 17, no. 5-6, p. 767-772., WOS*
- ADCA293 OSVALD, Jozef. Self-consistent analysis of Si⁻-doped layer placed in a non-central position in GaAs structure. In Physica E, 2004, vol. 23, p. 147-151.
Citácie:
1. [1.1] DAKHLOUI, H. - ALMANSOUR, S. - ALGRAFY, E. In *SUPERLATTICES AND MICROSTRUCTURES. JAN 2015, vol. 77, p. 196-208., WOS*
2. [1.1] DAKHLOUI, H. In *JOURNAL OF APPLIED PHYSICS. APR 7 2015, vol. 117, no. 13., WOS*
- ADCA294 OSVALD, Jozef - KUZMÍK, Ján - KONSTANTINIDIS, G. - LOBOTKA, Peter - GEORGAKILAS, A. Temperature dependence of Ni/Au/n-GaN Schottky diodes I-V characteristics. In Microelectronic Engineering, 2005, vol. 81, p. 181-187. ISSN 0167-9317.
Citácie:
1. [1.1] DOGAN, H. - YILDIRIM, N. - ORAK, I. - ELAGOZ, S. - TURUT, A. In *PHYSICA B-CONDENSED MATTER. JAN 15 2015, vol. 457, p. 48-53., WOS*
2. [1.1] LIU, C.S. - LI, F. In *COMPUTATIONAL MATERIALS SCIENCE. SEP 2015, vol. 107, p. 170-174., WOS*
3. [1.1] TAO, X.H. - YANG, B. In *PROCEEDINGS OF THE 22ND INTERNATIONAL SYMPOSIUM ON THE PHYSICAL AND FAILURE ANALYSIS OF INTEGRATED CIRCUITS (IPFA 2015). 2015, p. 405-408., WOS*
- ADCA295 PAASI, J. - LAHTINEN, M. - ERIKSSON, J.T. - POLÁK, Milan. Experimental study of the intergranular magnetization of (Bi, Pb)₂Sr₂Ca₂Cu₃O_{10+x} superconductors. In Physica C : Superconductivity and Its Applications, 1996, vol. 259, p. 1. (1.710 - IF1995). (1996 - Current Contents, SCOPUS). ISSN 0921-4534.
Citácie:
1. [1.1] AHMED, S. - KHAN, N.A. - MUMTAZ, M. - KHURRAM, A.A. In *RADIATION PHYSICS AND CHEMISTRY. JUL 2015, vol. 112, p. 145-150., WOS*
- ADCA296 PACHLA, W. - PRESZ, A. - KOVÁČ, Pavol - HUŠEK, Imrich - DIDUSZKO, R. Structural characterization of multifilament heat treated ex situ MgB₂ superconducting wires with Cu and Fe sheaths. In Superconductor Science and Technology. - Bristol : IOP Publishing, 2004, vol. 17, p. 1289-1294. (2.247 - IF2003). (2004 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
Citácie:
1. [1.1] LIN, H. - YAO, C. - ZHANG, H.T. - ZHANG, X.P. - ZHANG, Q.J. - DONG, C.H. - WANG, D.L. - MA, Y.W. In *SCIENTIFIC REPORTS. JUN 30 2015, vol. 5., WOS*
- ADCA297 PACHLA, W. - MARCINIAK, H. - SZULC, A. - WROBLEVSKI, M. - KOVÁČ, Pavol - HUŠEK, Imrich - MELIŠEK, Tibor. Investigation of texture formation and phase transition in press-, CIP- and roll-sintered Ag-sheathed Bi(2223) tapes. In IEEE Transactions on Applied Superconductivity, 1997, vol. 7, p. 2090. (0.763 - IF1996). (1997 - Current Contents).
Citácie:
1. [1.2] Yao, C., Lin, H., Zhang, X., Dong, C., Wang, D., Zhang, Q., Ma, Y., Awaji, S., Watanabe, K. *IEEE Transactions on Applied Superconductivity 25 (2015), 6937118, SCOPUS*
- ADCA298 PARDO, Enric - ŠOUC, Ján - VOJENČIAK, Michal. AC loss measurement and simulation of a coated conductor pancake coil with ferromagnetic parts. In Superconductor Science and Technology,

2009, vol. 22, art. no. 075007. (1.847 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] LAI, L.F. - GU, C. - QU, T.M. - ZHANG, M. - LI, Y.Q. - LIU, R. - COOMBS, T. - HAN, Z.H. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. JUN 2015, vol. 25, no. 3., WOS

2. [1.1] ZHANG, Y. - SONG, Y.T. - WANG, L. - LIU, X.F. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. AUG 2015, vol. 28, no. 8., WOS

ADCA299

PARDO, Enric - VOJENČIAK, Michal - GÖMÖRY, Fedor - ŠOUC, Ján. Low-magnetic-field dependence and anisotropy of the critical current density in coated conductors. In *Superconductor Science and Technology*, 2011, vol. 24, 065007. (2.402 - IF2010). (2011 - Current Contents, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] HAFIZ, M. - ABD-SHUKOR, R. In *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING*. SEP 2015, vol. 120, no. 4, p. 1573-1578., WOS

2. [1.1] HU, D. - AINSLIE, M.D. - RUSH, J.P. - DURRELL, J.H. - ZOU, J. - RAINE, M.J. - HAMPSHIRE, D.P. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. JUN 2015, vol. 28, no. 6., WOS

3. [1.1] KRUGER, P.A.C. - ZERMENO, V.M.R. - TAKAYASU, M. - GRILLI, F. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. JUN 2015, vol. 25, no. 3., WOS

4. [1.1] SIROIS, F. - GRILLI, F. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. APR 2015, vol. 28, no. 4., WOS

5. [1.1] ZHANG, Y. - SONG, Y.T. - WANG, L. - LIU, X.F. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. AUG 2015, vol. 28, no. 8., WOS

ADCA300

PARDO, Enric - GÖMÖRY, Fedor - ŠOUC, Ján - CEBALLOS, J.M. Current distribution and ac loss for a superconducting rectangular strip with in-phase alternating current and applied field. In *Superconductor Science and Technology*. - Bristol : IOP Publishing, 2007, vol. 20, p. 351-364. (1.440 - IF2006). (2007 - Current Contents, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] AINSLIE, M.D. - FUJISHIRO, H. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. MAY 2015, vol. 28, no. 5., WOS

2. [1.1] MORANDI, A. - FABBRI, M. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. FEB 2015, vol. 28, no. 2., WOS

3. [1.1] SIROIS, F. - GRILLI, F. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. APR 2015, vol. 28, no. 4., WOS

4. [1.1] ZHANG, Y. - SONG, Y.T. - WANG, L. - LIU, X.F. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. AUG 2015, vol. 28, no. 8., WOS

5. [1.1] ZHILICHEV, Y. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. AUG 2015, vol. 25, no. 4., WOS

6. [1.2] Ruuskanen, J., Stenvall, A., Lahtinen, V. *IEEE Transactions on Applied Superconductivity* 25 (2015), 6937139, SCOPUS

ADCA301

PARDO, Enric - GRILLI, F. Numerical simulations of the angular dependence of magnetization AC losses: coated conductors, Roebel cables and double pancake coils. In *Superconductor Science and Technology*, 2012, vol. 25, 014008. (2.662 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] IANNONE, G. - FARINON, S. - DE MARZI, G. - FABBRICATORE, P. - GAMBARDELLA, U. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. FEB 2015, vol. 25, no. 1., WOS

2. [1.2] Hu, D., Ainslie, M.D., Zou, J., Cardwell, D.A. *IEEE Transactions on Applied Superconductivity* 25 (2015), 6983573, SCOPUS

3. [1.2] Tsukamoto, T., Mifune, T., Sogabe, Y., Jiang, Z., Nakamura, T., Amemiya, N. *IEEE Transactions on Applied Superconductivity* 25 (2015), 6954476, SCOPUS

ADCA302

PARDO, Enric - ŠOUC, Ján - KOVÁČ, Ján. AC loss in ReBCO pancake coils and stacks of them: modelling and measurement. In *Superconductor Science and Technology*, 2012, vol. 25, 035008. (2.662 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] LAHTINEN, V. - STENVALL, A. - SIROIS, F. - PELLIKKA, M. In *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM*. AUG 2015, vol. 28, no. 8, p. 2345-2354., WOS

2. [1.1] SIROIS, F. - GRILLI, F. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. APR 2015, vol. 28, no. 4., WOS

3. [1.1] XIA, J. - BAI, H.Y. - LU, J. - GAVRILIN, A.V. - ZHOU, Y.H. - WEIJERS, H.W. In

- SUPERCONDUCTOR SCIENCE & TECHNOLOGY. DEC 2015, vol. 28, no. 12., WOS*
 4. [1.1] ZHANG, Y. - SONG, Y.T. - WANG, L. - LIU, X.F. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. AUG 2015, vol. 28, no. 8., WOS*
 5. [1.2] Hu, D., Ainslie, M.D., Zou, J., Cardwell, D.A. *IEEE Transactions on Applied Superconductivity 25 (2015), 6983573, SCOPUS*
- ADCA303 **PARDO, Enric.** Modelling of AC loss in coils made of thin tapes under DC bias current. In *IEEE Transactions on Applied Superconductivity, 2014, vol. 24, 4700105. (1.324 - IF2013). (2014 - Current Contents).* ISSN 1051-8223.
 Citácie:
 1. [1.1] XU, X.H. - SU, Y.R. - XI, Y.Y. - LIU, J.S. - YAO, H.C. In *PROCEEDINGS OF THE 4TH INTERNATIONAL CONFERENCE ON MECHATRONICS, MATERIALS, CHEMISTRY AND COMPUTER ENGINEERING 2015 (ICMMCCE 2015). 2015, vol. 39, p. 327-330., WOS*
 2. [1.1] XU, Z.H. - GRILLI, F. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. OCT 2015, vol. 28, no. 10., WOS*
 3. [1.2] Lu, J., Bai, H., Gavrilin, A.V., Zhang, G., Markiewicz, W.D., Weijers, H.W. *IEEE Transactions on Applied Superconductivity 25 (2015), 4701005, SCOPUS*
- ADCA304 **PARDO, Enric - KOVÁČ, Ján - ŠOUC, Ján.** Power loss in ReBCO racetrack coils under AC applied magnetic field and DC current. In *IEEE Transactions on Applied Superconductivity, 2013, vol. 23, 4701305. (1.199 - IF2012). (2013 - Current Contents, SCOPUS).* ISSN 1051-8223.
 Citácie:
 1. [1.1] XU, Z.H. - GRILLI, F. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. OCT 2015, vol. 28, no. 10., WOS*
 2. [1.2] Ainslie, M.D., Hu, D., Zou, J., Cardwell, D.A. *IEEE Transactions on Applied Superconductivity 25 (2015), 6965596, SCOPUS*
- ADCA305 **PARDO, Enric.** Calculation of AC loss in coated conductor coils with a large number of turns. In *Superconductor Science and Technology, 2013, vol. 26, 105017. (2.758 - IF2012). (2013 - Current Contents, WOS, SCOPUS).* ISSN 0953-2048.
 Citácie:
 1. [1.1] WANG, L. - WANG, Q.L. - WANG, H. - HU, X.N. - YAN, L.G. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS*
 2. [1.1] XIA, J. - BAI, H.Y. - LU, J. - GAVRILIN, A.V. - ZHOU, Y.H. - WEIJERS, H.W. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. DEC 2015, vol. 28, no. 12., WOS*
 3. [1.1] ZHANG, M. - YUAN, W.J. - KVITKOVIC, J. - PAMIDI, S. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. NOV 2015, vol. 28, no. 11., WOS*
 4. [1.2] Lu, J., Bai, H., Gavrilin, A.V., Zhang, G., Markiewicz, W.D., Weijers, H.W. *IEEE Transactions on Applied Superconductivity 25 (2015), 4701005, SCOPUS*
- ADCA306 **PARDO, Enric.** Modeling of coated conductor pancake coils with a large number of turns. In *Superconductor Science and Technology, 2008, vol. 21, 065014. (2.547 - IF2007). (2008 - Current Contents, SCOPUS).* ISSN 0953-2048.
 Citácie:
 1. [1.1] AINSLIE, M.D. - FUJISHIRO, H. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. MAY 2015, vol. 28, no. 5., WOS*
 2. [1.1] AMARO, N. - PINA, J.M. - MARTINS, J. - CEBALLOS, J.M. In *PROCEEDINGS 2015 9TH INTERNATIONAL CONFERENCE ON COMPATIBILITY AND POWER ELECTRONICS (CPE). 2015, p. 482-487., WOS*
 3. [1.1] GOMORY, F. - SOLOVYOV, M. - SOUC, J. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. APR 2015, vol. 28, no. 4., WOS*
 4. [1.1] IANNONE, G. - FARINON, S. - DE MARZI, G. - FABBRICATORE, P. - GAMBARDELLA, U. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. FEB 2015, vol. 25, no. 1., WOS*
 5. [1.1] XIA, J. - BAI, H.Y. - LU, J. - GAVRILIN, A.V. - ZHOU, Y.H. - WEIJERS, H.W. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. DEC 2015, vol. 28, no. 12., WOS*
 6. [1.1] ZHANG, Y. - SONG, Y.T. - WANG, L. - LIU, X.F. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. AUG 2015, vol. 28, no. 8., WOS*
 7. [1.2] Ruuskanen, J., Stenvall, A., Lahtinen, V. *IEEE Transactions on Applied Superconductivity 25 (2015), 6937139, SCOPUS*
 8. [1.2] Sogabe, Y., Tsukamoto, T., Mifune, T., Nakamura, T., Amemiya, N. *IEEE Transactions on Applied Superconductivity 25 (2015), 6963356, SCOPUS*
- ADCA307 **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.
 Citácie:

1. [1.1] XIA, J. - BAI, H.Y. - LU, J. - GAVRILIN, A.V. - ZHOU, Y.H. - WEIJERS, H.W. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. DEC 2015*, vol. 28, no. 12., WOS
2. [1.1] ZHANG, Y. - SONG, Y.T. - WANG, L. - LIU, X.F. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. AUG 2015*, vol. 28, no. 8., WOS
- ADCA308 PASKALEVA, A. - ĽAPAJNA, Milan - DOBROČKA, Edmund - HUŠEKOVÁ, Kristína - ATANASSOVA, E. - FRÖHLICH, Karol. Structural and dielectric properties of Ru-based gate/Hf-doped Ta2O5 stacks. In *Applied Surface Science*, 2011, vol. 257, p. 7876-7880. (1.793 - IF2010). (2011 - Current Contents). ISSN 0169-4332.
- Citácie:
1. [1.1] CARRETERO, E. - ALONSO, R. - MARCO, J.M. In *APPLIED SURFACE SCIENCE. DEC 30 2015*, vol. 359, p. 669-675., WOS
2. [1.1] MAHATA, C. - OH, I.K. - YOON, C.M. - LEE, C.W. - SEO, J. - ALGADI, H. - SHEEN, M.H. - KIM, Y.W. - KIM, H. - LEE, T. In *JOURNAL OF MATERIALS CHEMISTRY C. 2015*, vol. 3, no. 39, p. 10293-10301., WOS
- ADCA309 PEIKERTOVÁ, P. - KUKUTSCHOVÁ, J. - VÁVRA, Ivo - MATĚJKA, V. - ŽIVOTSKÝ, O. - VACULÍK, M. - LEE, P.W. - FILIP, P. Water suspended nanosized particles released from nonairborne brake wear debris. In *Wear*, 2013, vol. 306, p. 89-96. (1.262 - IF2012). (2013 - Current Contents). ISSN 0043-1648.
- Citácie:
1. [1.1] GRIGORATOS, T. - MARTINI, G. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. FEB 2015*, vol. 22, no. 4, p. 2491-2504., WOS
2. [1.1] NIELSEN, K. - KALMYKOVA, Y. - STROMVALL, A.M. - BAUN, A. - ERIKSSON, E. In *SCIENCE OF THE TOTAL ENVIRONMENT. NOV 1 2015*, vol. 532, p. 103-111., WOS
3. [1.2] Cui, Y., Qin, Y.-X., Sun, C., Zheng, J., Cong, P.-H. *Mocaxue Xuebao/Tribology 35 (2015)*, pp. 774-782, SCOPUS
- ADCA310 PIGNARD, S. - VINCENT, H. - SENATEUR, J.P. - FRÖHLICH, Karol - ŠOUC, Ján. Effect of crystallinity on the magnetoresistive properties of La_{0.8}MnO₃- δ thin films grown by chemical vapour deposition. In *Applied Physics Letters*, 1998, vol. 73, no., p. 999-1001. (3.033 - IF1997). (1998 - Current Contents, SCOPUS). ISSN 0003-6951.
- Citácie:
1. [1.1] RESTREPO-PARRA, E. - LONDONO-NAVARRO, J. - ARBELAEZ, O.D. In *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM. JAN 2015*, vol. 28, no. 1, p. 151-156., WOS
- ADCA311 PINČÍK, Emil - KOBAYASHI, Hikaru - RUSNÁK, Jaroslav - TAKAHASHI, Masao - MIKULA, M. - KIM, Woo Byoung - KUČERA, Michal - BRUNNER, Róbert - JUREČKA, S. Passivation of Si-based structures in HCN and KCN solutions. In *Applied Surface Science*, 2012, vol. 258, p. 8397-8405. (2.103 - IF2011). (2012 - Current Contents). ISSN 0169-4332.
- Citácie:
1. [1.1] GAD, K.M. - VOSSING, D. - BALAMOU, P. - HILLER, D. - STEGEMANN, B. - ANGERMANN, H. - KASEMANN, M. High quality tunneling oxides for passivated contacts and heterojunctions for high efficiency silicon solar cells. In *2015 IEEE 42ND PHOTOVOLTAIC SPECIALIST CONFERENCE (PVSC). 2015.*, WOS
2. [1.1] GAD, K.M. - VOSSING, D. - BALAMOU, P. - HILLER, D. - STEGEMANN, B. - ANGERMANN, H. - KASEMANN, M. Improved Si/SiO_x interface passivation by ultra-thin tunneling oxide layers prepared by rapid thermal oxidation. In *APPLIED SURFACE SCIENCE. OCT 30 2015*, vol. 353, p. 1269-1276., WOS
3. [1.2] Angermann, H., Laades, A., Kegel, J., Klimm, C., Stegemann, B. *Solid State Phenomena 219 (2015) 291-296*, SCOPUS
- ADCA312 PÍSEČNÝ, Pavol - HUŠEKOVÁ, Kristína - FRÖHLICH, Karol - HARMATHA, L. - ŠOLTÝS, Ján - MACHAJDÍK, Daniel - ESPINOS, J.P. - JERGEL, Matej - JAKABOVIČ, J. Growth of lanthanum oxide films for application as a gate dielectrics in CMOS technology. In *Materials science in semiconductor processing*, 2004, vol. 7, p. 231-236.
- Citácie:
1. [1.1] MOUSAVI-KANI, S.N. - BAHARI, A. - MORADINEDJAD, Z. In *BULGARIAN CHEMICAL COMMUNICATIONS. 2015*, vol. 47, no. 1, p. 80-84., WOS
- ADCA313 PITEL, Jozef. Differences between two definitions of the critical current of HTS coils. In *Superconductor Science and Technology*, 2013, vol. 26, 125002. (2.758 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
1. [1.1] BELGUERRAS, L. - MEZANI, S. - LUBIN, T. - LEVEQUE, J. - REZZOUG, A. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. SEP 2015*, vol. 28, no. 9., WOS
2. [1.1] BORROTO, A. - GARCIA-GORDILLO, A.S. - DEL RIO, L. - ARRONTE, M. - ALTSHULER, E. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. JUL 2015*, vol. 28, no.

- 7., WOS
3. [1.1] MARTINS, F.G.R. - DIAS, D.H.N. - FERREIRA, A.C. - DE ANDRADE, R. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015*, vol. 25, no. 3., WOS
4. [1.1] PARDO, E. - SOUC, J. - FROLEK, L. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. APR 2015*, vol. 28, no. 4., WOS
- ADCA314 PITEL, Jozef - KOVÁČ, Pavol. On some consequences of an external magnetic field applied to HTS coils. In *Physica C*, 2011, vol. 471, p. 1680-1688. (1.415 - IF2010). (2011 - Current Contents). ISSN 0921-4534.
Citácie:
1. [1.1] BADIA-MAJOS, A. - LOPEZ, C. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. FEB 2015*, vol. 28, no. 2., WOS
- ADCA315 PLECENIK, Andrej - TOMASEK, M. - PLECENIK, T. - TRUCHLY, M. - NOSKOVIC, J. - ZAHORAN, M. - ROCH, T. - BELOGOLOVSKII, M. - ŠPANKOVÁ, Marianna - CHROMIK, Štefan - KÚŠ, P. Studies of resistance switching effects in metal/YBa₂Cu₃O_{7-x}. In *Applied Surface Science*, 2010, vol. 256, p. 5684-5687. (1.616 - IF2009). (2010 - Current Contents). ISSN 0169-4332.
Citácie:
1. [1.1] DONG, R.X. - YAN, X.L. - ZHANG, Z. - WANG, M.H. In *MATERIALS RESEARCH BULLETIN. JAN 2015*, vol. 61, p. 101-104., WOS
2. [1.1] SCHULMAN, A. - LANOSA, L.F. - ACHA, C. In *JOURNAL OF APPLIED PHYSICS. JUL 28 2015*, vol. 118, no. 4., WOS
- ADCA316 PLECENIK, Andrej - SATRAPINSKY, L. - KÚŠ, P. - GAŽI, Štefan - BEŇAČKA, Štefan - VÁVRA, Ivo - KOSTIČ, Ivan. MgB₂ superconducting thin films on Si and Al₂O₃ substrates. In *Physica C*, 2001, vol. 363, p. 224-230. (1.489 - IF2000). (2001 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.
Citácie:
1. [1.1] SARPI, B. - DAINECHE, R. - GIRARDEAUX, C. - BERTOGLIO, M. - DERIVAUX, F. - BIBERIAN, J. P. - HEMERYCK, A. - VIZZINI, S. Surface-interface exploration of Mg deposited on Si(100) and oxidation effect on interfacial layer. In *APPLIED PHYSICS LETTERS. ISSN 0003-6951, 2015, vol. 106, no. 2, pp., WOS*
- ADCA317 PLECENIK, Andrej - GRAJCAR, M. - BEŇAČKA, Štefan - SEIDEL, P. - PFUCH, A. Surface characterization of high-T_c superconductors using YBa₂Cu₃O_x/Au and Bi₂Sr₂CaCu₂O_y/Au point contacts. In *Physical Review B*, 1994, vol. 49, no. 14, p. 10016. (3.159 - IF1993). (1994 - Current Contents). ISSN 1550-235X.
Citácie:
1. [1.1] CATAPANO, M. - ROMEO, F. - CITRO, R. - GIUBILEO, F. In *EUROPEAN PHYSICAL JOURNAL B. DEC 9 2015*, vol. 88, no. 12., WOS
2. [1.1] CATAPANO, Marilena - ROMEO, Francesco - CITRO, Roberta - GIUBILEO, Filippo. In *EUROPEAN PHYSICAL JOURNAL B. DEC 9 2015*, vol. 88, no. 12., WOS
3. [1.1] HASKOVA, V. - SZABO, P. - KOVAC, J. - RYBA, T. - VARGOVA, Z. - VARGA, R. In *ACTA PHYSICA POLONICA A. FEB 2015*, vol. 127, no. 2, p. 377-378., WOS
4. [1.1] RAZAVI, F. S. - ROHANIZADEGAN, Y. - HAJIALAMDARI, M. - REEDYK, M. - KREMER, R. K. - MITROVIC, B. In *CANADIAN JOURNAL OF PHYSICS. DEC 2015*, vol. 93, no. 12, p. 1646-1650., WOS
5. [1.1] RAZAVI, F.S. - ROHANIZADEGAN, Y. - HAJIALAMDARI, M. - REEDYK, M. - KREMER, R.K. - MITROVIC, B. In *CANADIAN JOURNAL OF PHYSICS. DEC 2015*, vol. 93, no. 12, p. 1646-1650., WOS
6. [1.1] TUULI, E. - GLOOS, K. In *JOURNAL OF LOW TEMPERATURE PHYSICS. MAR 2015*, vol. 178, no. 5-6, p. 367-382., WOS
7. [1.1] TUULI, Elina - GLOOS, Kurt. In *JOURNAL OF LOW TEMPERATURE PHYSICS. MAR 2015*, vol. 178, no. 5-6, p. 367-382., WOS
- ADCA318 PLECENIK, Andrej - FRÖHLICH, Karol - ESPINOS, J.P. - HOLDAGO, J.P. - HALABICA, Andrej - PRIPKO, Mojmir - GILABERT, A. Degradation of LaMnO_{3- δ} surface layer in LaMnO_{3- δ} /metal interface. In *Applied Physics Letters*, 2002, vol. 81, p. 859-861. ISSN 0003-6951.
Citácie:
1. [1.1] CERNIUKE, I. - VENGALIS, B. - STEIKUNIENE, A. - GRIGALUNAITE-VONSEVICIENE, G. - OGINSKIS, A.K. In *LITHUANIAN JOURNAL OF PHYSICS. 2015*, vol. 55, no. 1, p. 17-23., WOS
2. [1.1] SHANKAR, U. - SINGH, A.K. In *JOURNAL OF PHYSICAL CHEMISTRY C. DEC 24 2015*, vol. 119, no. 51, p. 28620-28630., WOS
- ADCA319 PLECENIK, T. - TOMASEK, M. - BELOGOLOVSKII, M. - TRUCHLY, M. - GREGOR, M. - NOSKOVIC, J. - ZAHORAN, M. - ROCH, T. - BOYLO, I. - ŠPANKOVÁ, Marianna - CHROMIK, Štefan - KÚŠ, P. - PLECENÍK, A. Effect of crystallographic anisotropy on the resistance switching phenomenon in perovskites. In *Journal of Applied Physics*, 2012, vol. 111, 056106. (2.168 - IF2011).

(2012 - Current Contents). ISSN 0021-8979.

Citácie:

1. [1.1] SCHULMAN, A. - LANOSA, L.F. - ACHA, C. In *JOURNAL OF APPLIED PHYSICS. JUL 28 2015, vol. 118, no. 4., WOS*

ADCA320 PLECENIK, T. - MOŠKO, Martin - HAIDRY, A.A. - ĎURINA, P. - TRUCHLY, M. - GRANČIČ, B. - GREGOR, M. - ROCH, T. - SATRAPINSKY, L. - MOŠKOVÁ, Antónia - MIKULA, M. - KÚŠ, P. - PLECENIK, Andrej. Fast highly-sensitive room-temperature semiconductor gas sensor based on the nanoscale Pt-TiO₂-Pt sandwich. In *Sensors and Actuators B*, 2015, vol. 207, p. 351-361. (4.097 - IF2014). (2015 - Current Contents). ISSN 0925-4005.

Citácie:

1. [1.1] LV, P. - FU, W.Y. - MU, Y.N. - SUN, H.R. - LIU, T. - WANG, J. - NIU, J.S. - LI, X. - LIU, L. - YANG, H.B. In *JOURNAL OF MATERIALS CHEMISTRY A. 2015, vol. 3, no. 31, p. 16089-16096., WOS*

2. [1.1] MADHI, I. - BOUZID, B. - SAADOUN, M. - BESSAIS, B. In *CERAMICS INTERNATIONAL. JUN 2015, vol. 41, no. 5, A, p. 6552-6559., WOS*

3. [1.2] Hara, K. *IEEJ Transactions on Sensors and Micromachines 135 (2015), pp. 270-275, SCOPUS*

ADCA321 PLESCH, G. - CHROMIK, Štefan - ŠTRBÍK, Vladimír - MAIR, M. - GRITZNER, G. - BEŇAČKA, Štefan - SARGÁNKOVÁ, I. - BUČKULIAKOVÁ, A. Thin (Hg,Pb)Ba₂CaCu₂O_y films prepared on the base of thermally evaporated precursors by post annealing in Hg-atmosphere. In *Physica C : Superconductivity and Its Applications*, 1998, vol. 307, p. 74-78. (2.199 - IF1997). (1998 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.

Citácie:

1. [1.2] Wesche, R.: *Physical Properties of High-Temperature Superconductors. Wiley & Sons, Ltd: 2015. ISBN: 978-9971-5-0683-4., SCOPUS*

ADCA322 POGANY, D. - BYCHIKHIN, S. - KUZMÍK, Ján - DUBEC, V. - JENSEN, N. - DENISON, M. - GROOS, G. - STECHER, M. - GORNIK, G. Thermal distribution during destructive pulses in ESD protection devices using a single-shot, two-dimensional interferometric method. In *IEEE Transactions on Device and Materials Reliability*, 2003, vol. 3, p. 197-201.

Citácie:

1. [1.1] SCHEIER, S. - ZUR NIEDEN, F. - ARNDT, B. - FREI, S. In *IEEE TRANSACTIONS ON ELECTROMAGNETIC COMPATIBILITY. DEC 2015, vol. 57, no. 6, p. 1309-1319., WOS*

ADCA323 POLÁK, Milan - DEMENČÍK, Eduard - JANŠÁK, Lubomír - UŠÁK, E. - MOZOLA, Pavol - THIEME, C.L.H. - AIZED, D. - LEVIN, G.A. - BARNES, P.N. Properties of a YBCO pancake coil operating with AC current at frequencies up to 1000 Hz. In *IEEE Transactions on Applied Superconductivity*, 2006, vol. 16, p. 1423-1426. (2006 - Current Contents, SCOPUS).

Citácie:

1. [1.1] LIU, X. - WEN, J. - SHENG, J. - ZENG, W. - MA, J. - WANG, Y. - LI, Z.Y. - JIN, Z. - HONG, Z. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS*

ADCA324 POLÁK, Milan - BARNES, P.N. - LEVIN, G.A. YBCO/Ag boundary resistivity in YBCO tapes with metallic substrates. In *Superconductor Science and Technology. - Bristol : IOP Publishing*, 2006, vol. 19, p. 817-820. (1.896 - IF2005). (2006 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] BAGRETS, N. - AUGIERI, A. - CELENTANO, G. - TOMASSETTI, G. - WEISS, K.P. - DELLA CORTE, A. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS*

2. [1.1] MULDER, T. - DUDAREV, A. - VAN DER LAAN, D.C. - MENTINK, M.G.T. - DHALLE, M. - TEN KATE, H.H.J. In *ADVANCES IN CRYOGENIC ENGINEERING - MATERIALS: PROCEEDINGS OF THE INTERNATIONAL CRYOGENIC MATERIALS CONFERENCE (ICMC) 2015. 2015, vol. 102., WOS*

3. [1.1] TAKACS, S. In *CRYOGENICS. JAN 2015, vol. 65, p. 1-4., WOS*

ADCA325 POLÁK, Milan - BARNES, P.N. - MOZOLA, Pavol - LEVIN, G.A. Critical current in YBCO coated conductors in the presence of a macroscopic defect. In *IEEE Transactions on Applied Superconductivity*, 2009, vol. 19, p. 2921-2934. (0.919 - IF2008). (2009 - Current Contents, SCOPUS).

Citácie:

1. [1.1] ZHU, Y.P. - YI, P.W. - SUN, M. - YANG, X.S. - ZHANG, Y. - ZHAO, Y. In *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM. DEC 2015, vol. 28, no. 12, p. 3519-3523., WOS*

ADCA326 POLÁK, Milan - HLÁŠNIK, Ivan - FUKUI, S. - IKEDA, N. - TSUKAMOTO, O. Self-field effect and current-voltage of a.c. superconductors. In *Cryogenics*, 1994, vol. 34, p. 315.

Citácie:

1. [1.1] RYU, K. - LI, Z.Y. In *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM. SEP 2015*, vol. 28, no. 9, p. 2649-2656., WOS
- ADCA327 POLÁK, Milan - ZHANG, W. - PARRELL, J.A. - PASHITSKI, A. - HELLSTROM, E.E. - LARBALESTIER, D.C. The effect of the maximum processing temperature on the microstructure and electrical properties of melt processed Ag-sheathed Bi₂Sr₂CaCu₂O_x tape. In *IEEE Transactions on Applied Superconductivity*, 1997, vol. 7, p. 1537. (0.763 - IF1996). (1997 - Current Contents).
Citácie:
1. [1.2] Wesche, R.: *Physical Properties of High-Temperature Superconductors*. Wiley & Sons, Ltd: 2015. ISBN: 978-9971-5-0683-4, SCOPUS
- ADCA328 POZZOVIVO, G. - KUZMÍK, Ján - GOLKA, S. - SCHRENK, W. - STRASSER, G. - POGANY, D. - ČIČO, Karol - ĽAPAJNA, Milan - FRÖHLICH, Karol - CARLIN, J.-F. - GONSCHOREK, M. - FELTIN, E. - GRANDJEAN, N. Gate insulation and drain current saturation mechanism in InAlN/GaN metal-oxide-semiconductor high-electron-mobility transistors. In *Applied Physics Letters*, 2007, vol. 91, 043509. (3.977 - IF2006). (2007 - Current Contents, SCOPUS). ISSN 0003-6951.
Citácie:
1. [1.1] FREEDSMAN, J.J. - WATANABE, A. - EGAWA, T. In *2015 73RD ANNUAL DEVICE RESEARCH CONFERENCE (DRC). 2015*, p. 55-56., WOS
2. [1.1] FREEDSMAN, J.J. - WATANABE, A. - URAYAMA, Y. - EGAWA, T. In *APPLIED PHYSICS LETTERS. SEP 7 2015*, vol. 107, no. 10., WOS
3. [1.1] SON, J. - CHOBPATTANA, V. - MCSKIMMING, B.M. - STEMMER, S. In *JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A. MAR 2015*, vol. 33, no. 2., WOS
- ADCA329 PRNOVÁ, Anna - GALUSEK, Dušan - HNATKO, Miroslav - KOZÁNKOVÁ, Jana - VÁVRA, Ivo. Composites with eutectic microstructure by hot pressing of Al₂O₃ – Y₂O₃ glass microspheres. In *Ceramics-Silikáty*, 2011, vol. 55, no. 3, p. 208-213. (0.297 - IF2010). (2011 - Current Contents, SCOPUS, WOS). ISSN 0862-5468.
Citácie:
1. [1.1] OZERDEM, E. - AYAS, E. In *CERAMICS INTERNATIONAL. DEC 2015*, vol. 41, no. 10, A, p. 12869-12877., WOS
- ADCA330 PUDIŠ, D. - ŠUŠLIK, Ľ. - ŠKRINIAROVÁ, J. - KOVÁČ, Jaroslav - KOVÁČ, Jaroslav Jr. - KUBICOVÁ, I. - MARTINČEK, I. - HAŠČÍK, Štefan - SCHAAF, P. Effect of 2D photonic structure patterned in the LED surface on emission properties. In *Applied Surface Science*, 2013, vol. 269, p. 161-165. (2.112 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0169-4332.
Citácie:
1. [1.1] HUANG, K. - GAN, Y. - WANG, Q. - JIANG, X. In *OPTICS AND LASER TECHNOLOGY. SEP 2015*, vol. 72, p. 134-138., WOS
2. [1.1] YANG, Y.B. - REN, Y. - CHEN, Y.X. - LIU, M.G. - CHEN, W.J. - HAN, X.B. - LIN, X.Q. - LIAO, Q. - ZANG, W.J. - LUO, H. - LIN, J.L. - WU, Z.S. - LIU, Y. - ZHANG, B.J. In *MICROELECTRONIC ENGINEERING. MAY 1 2015*, vol. 139, p. 39-42., WOS
- ADCA331 RAJŇÁK, Michal - KURIMSKÝ, Juraj - DOLNÍK, Bystrík - MARTON, Karol - TOMČO, Ladislav - TACULESCU, A. - VÉKÁS, Ladislau - KOVÁČ, Jozef - VÁVRA, Ivo - TÓTHOVÁ, Jana - KOPČANSKÝ, Peter - TIMKO, Milan. Dielectric response of transformer oil based ferrofluid in low frequency range. In *Journal of Applied Physics*, 2013, vol. 114, no. 3, art. no. 034313. (2.210 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0021-8979.
Citácie:
1. [1.1] JOZEF CZAK, A. - WLAZLO, R. In *ADVANCES IN CONDENSED MATTER PHYSICS. 2015.*, WOS
2. [1.1] VARACKA, L. - KUDELČIK, J. - GUTTEN, M. In *PROCEEDINGS OF THE 2015 16TH INTERNATIONAL SCIENTIFIC CONFERENCE ON ELECTRIC POWER ENGINEERING (EPE). 2015*, p. 662-665., WOS
- ADCA332 RAPOŠ, M. - RUŽINSKÝ, M. - LUBY, Štefan - ČERVENÁK, Ján. Dielectric properties of me-cdte-me thin-film structures. In *Thin Solid Films*, 1976, vol. 36, p. 103-106.
Citácie:
1. [1.1] YUCEDAG, I. - ERSOZ, G. - GUMUS, A. - ALTINDAL, S. In *INTERNATIONAL JOURNAL OF MODERN PHYSICS B. MAY 20 2015*, vol. 29, no. 13., WOS
- ADCA333 REPARAZ, J.S. - BERNARDI, A. - GONI, A. - ALONSO, M.I. - GARRIGA, M. - NOVÁK, Jozef - VÁVRA, Ivo. Phonon pressure coefficient as a probe of the strain status of self-assembled quantum dots. In *Applied Physics Letters*, 2007, vol. 91, p. 081914. (3.977 - IF2006). (2007 - Current Contents, SCOPUS). ISSN 0003-6951.
Citácie:
1. [1.1] IBANEZ, J. - HERNANDEZ, S. - LOPEZ-VIDRIER, J. - HILLER, D. - GUTSCH, S. - ZACHARIAS, M. - SEGURA, A. - VALENTA, J. - GARRIDO, B. In *PHYSICAL REVIEW B. JUL 27 2015*, vol. 92, no. 3., WOS

2. [1.1] KUO, M.H. - LAI, W.T. - HSU, T.M. - CHEN, Y.C. - CHANG, C.W. - CHANG, W.H. - LI, P.W. In *NANOTECHNOLOGY. FEB 6 2015, vol. 26, no. 5., WOS*
- ADCA334 ROCH, T. - DOBROČKA, Edmund - MIKULA, M. - PIDÍK, A. - ĎURINA, P. - HAIDRY, A.A. - PLECENIK, T. - TRUCHLY, M. - GRANČIČ, B. - PLECENÍK, A. - KÚŠ, P. Strong biaxial texture and polymorph nature in TiO₂ thin film formed by ex-situ annealing on c-plane Al₂O₃ surface. In *Journal of Crystal Growth*, 2012, vol. 338, 118-124. (1.726 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 0022-0248.
Citácie:
1. [1.1] MOLDRE, K. - AARIK, L. - MANDAR, H. - NIILISK, A. - RAMMULA, R. - TARRE, A. - AARIK, J. In *JOURNAL OF CRYSTAL GROWTH. OCT 15 2015, vol. 428, p. 86-92., WOS*
- ADCA335 ROLLEROVA, Eva - JURČOVIČOVÁ, Jana - MLYNARČÍKOVÁ, Alžbeta - SADLONOVA, Irina - BILANICOVA, Dagmar - WSOLOVA, Ladislava - KISS, Alexander - KOVRIZNYCH, Jevgenij - KRONEK, Juraj - ČIAMPOR, Fedor - VÁVRA, Ivo - SCSUKOVÁ, Soňa. Delayed adverse effects of neonatal exposure to polymeric nanoparticle poly (ethylene glycol)-block-poly lactide methyl ether on hypothalamic-pituitary-ovarian axis development and function in Wistar rats. In *Reproductive Toxicology : official journal of the European Teratology Society*, 2015, vol. 57, p. 165-175. (3.227 - IF2014). (2015 - Current Contents). ISSN 0890-6238.
Citácie:
1. [1.1] PALIOURA, E. - DIAMANTI-KANDARAKIS, E. *Polycystic ovary syndrome (PCOS) and endocrine disrupting chemicals (EDCs)*. In *REVIEWS IN ENDOCRINE & METABOLIC DISORDERS. ISSN 1389-9155, DEC 2015, vol. 16, no. 4, p. 365-371., WOS*
- ADCA336 ROŠOVÁ, Alica - HUŠEK, Imrich - KOVÁČ, Pavol - DOBROČKA, Edmund - MELIŠEK, Tibor. Microstructure of MgB₂ superconducting wire prepared by internal magnesium diffusion process. In *Journal of Alloys and Compounds*, 2015, vol. 619, p. 726-732. (2.999 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 0925-8388.
Citácie:
1. [1.1] YE, S.J. - TAKIGAWA, H. - MATSUMOTO, A. - KUMAKURA, H. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. OCT 2015, vol. 25, no. 5., WOS*
- ADCA337 ROŠOVÁ, Alica - KOVÁČ, Pavol - HUŠEK, Imrich - BRUNNER, Boris - DOBROČKA, Edmund. Microstructure of MgB₂ superconducting wire prepared by internal magnesium diffusion and in-situ powder-in-tube processes – Secondary phase intergrain nanolayers as an oxygen content indicator. In *Physica C*, 2015, vol. 516, p. 1-9. (0.942 - IF2014). (2015 - Current Contents). ISSN 0921-4534.
Citácie:
1. [1.1] WANG, D. - ZHANG, X.P. - TANG, S.P. - XU, D. - YAO, C. - DONG, C.H. - XU, Z.T. - MA, Y.W. - OGURO, H. - AWAJI, S. - WATANABE, K. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. OCT 2015, vol. 28, no. 10., WOS*
- ADCA338 ROSTILA, L. - LEHTONEN, J. - MASTI, M. - LALLOUET, N. - SAUGRAIN, J.-M. - ALLAIS, A. - SCHIPPL, K. - SCHMIDT, Fritz - BALOG, G. - MAROT, G. - RAVEX, A. - USOV, A.I. - GÖMÖRY, Fedor - KLINČOK, Boris - ŠOUC, Ján - FREYHARDT, H.C. Design of a 30 m long 1 kV YBCO cable. In *Superconductor Science and Technology*, 2006, vol. 19, p. 418-422. (1.896 - IF2005). (2006 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
Citácie:
1. [1.2] Cicek, A., Inanir, F. In *Progress in Exergy, Energy, and the Environment Eds. Ibrahim Dincer, Adnan Midilli, Haydar Kucuk. Springer 2014. ISBN: 978-3-319-04680-8. P. 453-458, SCOPUS*
- ADCA339 ROSTILA, L. - LEHTONEN, J. - MASTI, M. - MIKKONEN, R. - GÖMÖRY, Fedor - MELIŠEK, Tibor - SEILER, Eugen - ŠOUC, Ján - USOSKIN, A. AC loss and current sharing in an YBCO cable. In *IEEE Transactions on Applied Superconductivity*, 2007, vol. 17, p. 1688-1691. (0.717 - IF2006). (2007 - Current Contents, WOS, SCOPUS).
Citácie:
1. [1.1] ESCAMEZ, G. - BADEL, A. - TIXADOR, P. - RAMDANE, B. - MEUNIER, G. - ALLAIS, A. - BRUZEK, C.E. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS*
2. [1.2] Demko, J.A. In *Superconductors in the Power Grid. Woodhead Publishing Series in Energy 2015 Ed. C. Rey ISBN: 978-1-78242-029-3 pp. 261-280, SCOPUS*
- ADCA340 ROSTILA, L. - LEHTONEN, J. - MIKKONEN, R. - ŠOUC, Ján - SEILER, Eugen - MELIŠEK, Tibor - VOJENČIAK, Michal. How to determine critical current density in YBCO tapes from voltage-current measurements at low magnetic fields. In *Superconductor Science and Technology*, 2007, vol. 20, p. 1097-1100. (1.440 - IF2006). (2007 - Current Contents, SCOPUS). ISSN 0953-2048.
Citácie:
1. [1.1] HU, D. - AINSLIE, M.D. - RUSH, J.P. - DURRELL, J.H. - ZOU, J. - RAINE, M.J. - HAMPSHIRE, D.P. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. JUN 2015, vol. 28, no. 6., WOS*

- ADCA341 RÝGER, Ivan - VANKO, Gabriel - LALINSKÝ, Tibor - KUNZO, Pavol - VALLO, Martin - VÁVRA, Ivo - PLECENIK, T. Pt/NiO ring gate based Schottky diode hydrogen sensors with enhanced sensitivity and thermal stability. In *Sensors and Actuators B-Chemical*, 2014, vol. 202, p. 1-8. (3.840 - IF2013). (2014 - Current Contents). ISSN 0925-4005.
Citácie:
1. [1.1] *KARADUMAN, I. - DEMIR, M. - YILDIZ, D.E. - ACAR, S. In PHYSICA SCRIPTA. MAY 2015, vol. 90, no. 5., WOS*
2. [1.1] *RADZALI, R. - HASSAN, Z. - ZAINAL, N. - YAM, F.K. In SENSORS AND ACTUATORS B-CHEMICAL. JUL 5 2015, vol. 213, p. 276-284., WOS*
3. [1.1] *YUAN, Z.L. In JOURNAL OF ELECTRONIC MATERIALS. APR 2015, vol. 44, no. 4, p. 1187-1191., WOS*
- ADCA342 SAFRAN, Serap - VOJENČIAK, Michal - GENCER, A. - GÖMÖRY, Fedor. Critical current and AC loss of DI-BSCCO tape modified by the deposition of ferromagnetic layer on edges. In *IEEE Transactions on Applied Superconductivity*, 2010, vol. 20, p. 2294-2300. (1.310 - IF2009). (2010 - Current Contents, SCOPUS). ISSN 1051-8223.
Citácie:
1. [1.1] *YILDIZ, S. - INANIR, F. - CICEK, A. In JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM. NOV 2015, vol. 28, no. 11, p. 3205-3209., WOS*
2. [1.2] *Cicek, A., Inanir, F. Progress in Exergy, Energy, and the Environment Eds. Ibrahim Dincer, Adnan Midilli, Haydar Kucuk. Springer 2014. ISBN: 978-3-319-04680-8. P. 453-458, SCOPUS*
- ADCA343 SAMUELY, Tomáš - SZABÓ, Pavol - PRIBULOVÁ, Zuzana - SUNG, N.H. - CHO, B.K. - KLEIN, T. - CAMBEL, Vladimír - RODRIGO, J.G. - SAMUELY, Peter. Type II superconductivity in SrPd₂Ge₂. In *Superconductor Science and Technology*, 2013, vol. 26, no. 1, art. no. 015010. (2.758 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
Citácie:
1. [1.1] *HERRERA, E. - GUILLAMON, I. - GALVIS, J.A. - CORREA, A. - FENTE, A. - LUCCAS, R.F. - MOMPEAN, F.J. - GARCIA-HERNANDEZ, M. - VIEIRA, S. - BRISON, J.P. - SUDEROW, H. In PHYSICAL REVIEW B. AUG 17 2015, vol. 92, no. 5., WOS*
- ADCA344 SEDLÁČKOVÁ, K. - ZAŤKO, Bohumír - ŠAGÁTOVÁ-PERĎOCHOVÁ, A. - NEČAS, V. Monte Carlo simulations of the particle transport in semiconductor detectors of fast neutrons. In *Nuclear Instruments and Methods in Physics Research A. Accelerators, Spectrometers, Detectors and Associated Equipment*, 2013, vol. 709, p. 63-67. (1.142 - IF2012). (2013 - Current Contents). ISSN 0168-9002.
Citácie:
1. [1.1] *CHERNYKH, A.V. - CHERNYKH, S.V. - DIDENKO, S.I. - KOLTISOV, G.I. - BARYSHNIKOV, F.M. - BRITVICH, G.I. - KOSTIN, M.Y. - CHUBENKO, A.P. - GULY, V.G. - SVESHNIKOV, Y.N. - BURTEBAYEV, N. - BURTEBAYEVA, J.T. In JOURNAL OF INSTRUMENTATION. JAN 2015, vol. 10., WOS*
2. [1.1] *MESHKIAN, M. In NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. JUL 11 2015, vol. 788, p. 73-78., WOS*
3. [1.1] *TRIPATHI, S. - UPADHYAY, C. - NAGARAJ, C.P. - DEVAN, K. - MADHUSOODANAN, K. - MURTY, S.A.V.S. In 2015 ANNUAL IEEE INDIA CONFERENCE (INDICON). 2015., WOS*
- ADCA345 SEDLÁČKOVÁ, K. - LOBOTKA, Peter - VÁVRA, Ivo - RADNÓCZI, G. Structural, electrical and magnetic properties of carbon-nickel composite thin films. In *Carbon*, 2005, vol. 43, p. 2192-2198. (3.331 - IF2004). (2005 - Current Contents). ISSN 0008-6223.
Citácie:
1. [1.2] *Wett, D., Nestler, D., Wagner, G., Wielage, B., Seider, T., Martin, J., Gessner, T. Materials Science Forum Volume 825-826, 2015, Pages 548-555, SCOPUS*
- ADCA346 SCHRÖFEL, A. - KRATOŠOVÁ, G. - BOHUNICKÁ, M. - DOBROČKA, Edmund - VÁVRA, Ivo. Biosynthesis of gold nanoparticles using diatoms-silica-gold and EPS-gold bionanocomposite formation. In *Journal of Nanoparticle Research*, 2011, vol. 13, p. 3207-3216. (3.253 - IF2010). (2011 - Current Contents). ISSN 1388-0764.
Citácie:
1. [1.1] *CHAKRAVARTY, I. - PRADEEPAM, R.J. - KUNDU, K. - SINGH, P.K. - KUNDU, S. In CURRENT PHARMACEUTICAL BIOTECHNOLOGY. 2015, vol. 16, no. 8, p. 747-755., WOS*
2. [1.1] *JENA, J. - PRADHAN, N. - DASH, B.P. - PANDA, P.K. - MISHRA, B.K. In JOURNAL OF SAUDI CHEMICAL SOCIETY. NOV 2015, vol. 19, no. 6, p. 661-666., WOS*
3. [1.1] *KUPPUSAMY, P. - YUSOFF, M.M. - ICHWAN, S.J.A. - PARINE, N.R. - MANIAM, G.P. - GOVINDAN, N. In JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY. JUL 25 2015, vol. 27, p. 59-67., WOS*
4. [1.1] *MOMENI, S. - NABIPOUR, I. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY.*

- AUG 2015, vol. 176, no. 7, p. 1937-1949., WOS
5. [1.1] PARIAL, D. - PAL, R. In *JOURNAL OF APPLIED PHYCOLOGY*. APR 2015, vol. 27, no. 2, p. 975-984., WOS
6. [1.1] SRIVASTAVA, P. - KOWSHIK, M. In *HALOPHILES: BIODIVERSITY AND SUSTAINABLE EXPLOITATION*. 2015, vol. 6, p. 145-159., WOS
7. [1.2] Mohite, P., Apte, M., Kumar, A.R., Zinjarde, S.: In *Springer Handbook of Marine Biotechnology*. Springer 2015. ISBN 978-3-642-53971-8. P. 1229-1245., SCOPUS
- ADCA347 SKÁKALOVÁ, V. - VRETENÁR, Viliam - KOPERA, Lubomír - KOTRUSZ, P. - MANGLER, C. - MEŠKO, M. - MEYER, J.C. - HULMAN, Martin. Electronic transport in composites of graphite oxide with carbon nanotubes. In *Carbon*, 2014, vol. 72, p. 224-232. (6.160 - IF2013). (2014 - Current Contents). ISSN 0008-6223.
- Citácie:
1. [1.1] KUMAR, R. - KAUR, A. Charge transport mechanism of hydrazine hydrate reduced graphene oxide. In *IET CIRCUITS DEVICES & SYSTEMS*. NOV 2015, vol. 9, no. 6, SI, p. 392-396., WOS
- ADCA348 SOLOVYOV, Mykola - PARDO, Enric - ŠOUC, Ján - GÖMÖRY, Fedor - SKARBA, M. - KONOPKA, P. - PEKARČÍKOVÁ, M. - JANOVEC, J. Non-uniformity of coated conductor tapes. In *Superconductor Science and Technology*, 2013, vol. 26, 115013. (2.758 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
1. [1.1] BORROTO, A. - GARCIA-GORDILLO, A.S. - DEL RIO, L. - ARRONTE, M. - ALTSHULER, E. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. JUL 2015, vol. 28, no. 7., WOS
2. [1.1] DEMENCIK, E. - GRILLI, F. - KARIO, A. - NAST, R. - JUNG, A. - VOJENCIAK, M. - SCHEITER, J. - GOLDACKER, W. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. JUN 2015, vol. 25, no. 3., WOS
3. [1.1] LI, S. - CHEN, D.X. - FAN, Y. - FANG, J. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. JAN 15 2015, vol. 508, p. 12-16., WOS
4. [1.1] SIROIS, F. - GRILLI, F. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. APR 2015, vol. 28, no. 4., WOS
5. [1.2] Hu, D., Ainslie, M.D., Zou, J., Cardwell, D.A. *IEEE Transactions on Applied Superconductivity* 25 (2015), 6983573, SCOPUS
- ADCA349 SOLOVYOV, Mykola - ŠOUC, Ján - GÖMÖRY, Fedor. Magnetic cloak for low frequency AC magnetic field. In *IEEE Transactions on Applied Superconductivity*, 2015, vol. 25, 8800705. (1.235 - IF2014). (2015 - Current Contents). ISSN 1051-8223.
- Citácie:
1. [1.1] ZHU, J.F. - JIANG, W. - LIU, Y.C. - YIN, G. - YUAN, J. - HE, S.L. - MA, Y.G. In *NATURE COMMUNICATIONS*. NOV 2015, vol. 6., WOS
- ADCA350 SPRINGHOLZ, G. - SCHWARZL, T. - HEISS, W. - BAUER, G. - AIGLE, M. - PASCHER, H. - VÁVRA, Ivo. Midinfrared surface-emitting PbSe/PbEuTe quantum-dot lasers. In *Applied Physics Letters*, 2001, vol. 79, p. 1225. (3.906 - IF2000). ISSN 0003-6951.
- Citácie:
1. [1.1] KUDRYNSKYI, Z.R. - BAKHTINOV, A.P. - VODOPYANOV, V.N. - KOVALYUK, Z.D. - TOVARNITSKII, M.V. - LYTVYN, O.S. In *NANOTECHNOLOGY*. NOV 20 2015, vol. 26, no. 46., WOS
- ADCA351 SPRINGHOLZ, G. - SCHWARTZ, T. - HEISS, W. - FROMHERZ, T. - BAUER, G. - AIGLE, M. - PASCHER, H. - VÁVRA, Ivo. Fabrication of 3.9-4.2 μm mid-infrared surface emitting PbSe/PbEuTe quantum dot lasers using molecular beam epitaxy. In *Physica E*, 2002, vol. 13, p. 876-880.
- Citácie:
1. [1.1] SUN, X.G. - GAO, K.W. - PANG, X.L. - YANG, H.S. - VOLINSKY, A.A. In *APPLIED SURFACE SCIENCE*. NOV 30 2015, vol. 356, p. 978-985., WOS
- ADCA352 SPRINGHOLZ, G. - PINCZOLITS, M. - HOLÝ, V. - ZERLAUTH, S. - VÁVRA, Ivo - BAUER, G. Vertical and lateral ordering in self-organized quantum dot superlattices. In *Physica E*, 2001, vol. 9, p. 149-163. (2001 - Current Contents).
- Citácie:
1. [1.1] KIM, C.E. - TAK, Y.J. - BUTLER, K.T. - WALSH, A. - SOON, A. In *PHYSICAL REVIEW B*. FEB 17 2015, vol. 91, no. 8., WOS
2. [1.1] VENGRENOVYCH, R.D. - IVANSKYI, B.V. - PANKO, I.I. - STASYK, M.O. - FESIV, I.V. In *POWDER METALLURGY AND METAL CERAMICS*. SEP 2015, vol. 54, no. 5-6, p. 281-291., WOS
3. [1.1] ZINOVYEV, V.A. - DVURECHENSKII, A.V. - KUCHINSKAYA, P.A. - ARMBRISTER, V.A. - TEYS, S.A. - SHKLYAEV, A.A. - MUDRYI, A.V. In *SEMICONDUCTORS*. FEB 2015, vol.

- ADCA353 49, no. 2, p. 149-153., WOS
 SRNÁNEK, R. - JAKABOVIČ, J. - DOBROČKA, Edmund - IRMER, G. - HEINEMEYER, U. - HEINEMEYER, K. - SCHREIBER, F. - VINCZE, A. - MACHOVIC, V. - KOVÁČ, Ján - DONOVAL, D. Evidence of pentacene bulk and thin film phase transformation into an orthorhombic phase by iodine diffusion. In Chemical Physics Letters, 2010, vol. 484, p. 299-303. (2.291 - IF2009). (2010 - Current Contents). ISSN 0009-2614.
 Citácie:
 1. [1.1] ZHANG, L.S. - ROY, S.S. - HAMERS, R.J. - ARNOLD, M.S. - ANDREW, T.L. In JOURNAL OF PHYSICAL CHEMISTRY C. JAN 8 2015, vol. 119, no. 1, p. 45-54., WOS
- ADCA354 STENVALL, A. - MIKKONEN, R. - KOVÁČ, Pavol. Relation between transverse and longitudinal normal zone propagation velocities in impregnated MgB2 windings. In IEEE Transactions on Applied Superconductivity, 2009, vol. 19, p. 2403-2406. (0.919 - IF2008). (2009 - Current Contents, SCOPUS).
 Citácie:
 1. [1.1] BONURA, M. - SENATORE, C. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015, vol. 25, no. 3., WOS
- ADCA355 STOKLAS, Roman - GREGUŠOVÁ, Dagmar - NOVÁK, Jozef - VESCAN, A. - KORDOŠ, Peter. Investigation of trapping effects in AlGaIn/GaN/Si field-effect transistors by frequency dependent capacitance and conductance analysis. In Applied Physics Letters, 2008, vol. 93, 124103. (3.596 - IF2007). (2008 - Current Contents, WOS, SCOPUS). ISSN 0003-6951.
 Citácie:
 1. [1.1] CHAKRABORTY, A. - BISWAS, D. In APPLIED PHYSICS LETTERS. FEB 23 2015, vol. 106, no. 8., WOS
 2. [1.1] HE, Y.L. - LI, P.X. - WANG, C. - LI, X.D. - ZHAO, S.L. - MI, M.H. - PEI, J.Q. - ZHANG, J.C. - MA, X.H. - HAO, Y. In APPLIED PHYSICS LETTERS. AUG 10 2015, vol. 107, no. 6., WOS
 3. [1.1] LUO, J. - ZHAO, S.L. - MI, M.H. - HOU, B. - YANG, X.L. - ZHANG, J.C. - MA, X.H. - HAO, Y. In CHINESE PHYSICS B. NOV 2015, vol. 24, no. 11., WOS
- ADCA356 ŠAGÁTOVÁ, A. - ZAŤKO, Bohumír - SEDLÁČKOVÁ, K. - NEČAS, V. - DUBECKÝ, František - BOHÁČEK, Pavol - CHODÁK, Ivan. Semi-insulating GaAs detectors optimized for fast neutron detection. In Journal of Instrumentation, 2013, vol. 8, c03016. (1.656 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 1748-0221.
 Citácie:
 1. [1.1] CHERNYKH, A.V. - CHERNYKH, S.V. - DIDENKO, S.I. - KOLTISOV, G.I. - BARYSHNIKOV, F.M. - BRITVICH, G.I. - KOSTIN, M.Y. - CHUBENKO, A.P. - GULY, V.G. - SVESHNIKOV, Y.N. - BURTEBAYEV, N. - BURTEBAYEVA, J.T. In JOURNAL OF INSTRUMENTATION. JAN 2015, vol. 10., WOS
- ADCA357 ŠAGÁTOVÁ-PERDOCHOVÁ, A. - DUBECKÝ, František - ZAŤKO, Bohumír - CHODÁK, Ivan - LADZIANSKY, M. - NEČAS, V. Detectors of fast neutrons based on semi-insulating GaAs with neutron converter layers. In Nuclear Instruments and Methods in Physics Research A. Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, vol. 576, p. 56-69. (1.185 - IF2006). (2007 - Current Contents, WOS, SCOPUS). ISSN 0168-9002.
 Citácie:
 1. [1.1] CHERNYKH, A.V. - CHERNYKH, S.V. - DIDENKO, S.I. - KOLTISOV, G.I. - BARYSHNIKOV, F.M. - BRITVICH, G.I. - KOSTIN, M.Y. - CHUBENKO, A.P. - GULY, V.G. - SVESHNIKOV, Y.N. - BURTEBAYEV, N. - BURTEBAYEVA, J.T. In JOURNAL OF INSTRUMENTATION. JAN 2015, vol. 10., WOS
- ADCA358 ŠEBO, Pavol - MOSER, Zbigniew - ŠVEC, Peter - JANIČKOVIČ, Dušan - DOBROČKA, Edmund - GASIOR, Wladyslaw - PSTRUŚ, Janus. Effect of indium on the microstructure of the interface between Sn₃Ag_{0.74}CuIn solder and Cu substrate. In Journal of Alloys and Compounds, 2009, vol. 480, no. 2, p. 409-415. (1.510 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0925-8388.
 Citácie:
 1. [1.1] ZENG, G. - MCDONALD, S.D. - GU, Q.F. - TERADA, Y. - UESUGI, K. - YASUDA, H. - NOGITA, K. In ACTA MATERIALIA. JAN 15 2015, vol. 83, p. 357-371., WOS
- ADCA359 ŠOUC, Ján - VOJENČIAK, Michal - GÖMÖRY, Fedor. Experimentally determined transport and magnetization ac losses of small cable models constructed from YBCO coated conductors. In Superconductor Science and Technology, 2010, vol. 23, 045029. (2.694 - IF2009). (2010 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
 Citácie:
 1. [1.2] Cicek, A., Inanir, F. Progress in Exergy, Energy, and the Environment Eds. Ibrahim Dincer, Adnan Midilli, Haydar Kucuk. Springer 2014. ISBN: 978-3-319-04680-8. P. 453-458, SCOPUS
- ADCA360 ŠOUC, Ján - GÖMÖRY, Fedor. New approach to the ac loss measurement in the superconducting

- secondary circuit of an iron-core transformer. In *Superconductor Science and Technology*, 2002, vol. 15, p. 927-932. (1.511 - IF2001). (2002 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
- [1.2] Krüger, P. *Optimisation of Hysteretic Losses in High-Temperature Superconducting Wires. PhD Thesis Karlsruhe: KIT Scientific Publishing, 2014. ISBN 978 3 73150 185 5 pp. 1-218, SCOPUS*
 - [1.2] Stenvall, A., Lahtinen, V., Lyly, M. *Superconductor Science and Technology* 27 (10), 104004, SCOPUS
- ADCA361 ŠOUC, Ján - SOLOVYOV, Mykola - GÖMÖRY, Fedor - CAMPS, J.P. - NAVAU, C. - SANCHEZ, A. A quasistatic magnetic cloak. In *New Journal of Physics*, 2013, vol. 15, 053019. (4.063 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 1367-2630.
- Citácie:
- [1.1] VALAGIANNOPOULOS, C.A. - ASKARPOUR, A.N. - ALU, A. In *PHYSICAL REVIEW B. DEC 10 2015, vol. 92, no. 22., WOS*
 - [1.1] ZHU, J.F. - JIANG, W. - LIU, Y.C. - YIN, G. - YUAN, J. - HE, S.L. - MA, Y.G. In *NATURE COMMUNICATIONS. NOV 2015, vol. 6., WOS*
- ADCA362 ŠOUC, Ján - GÖMÖRY, Fedor - KOVÁČ, Ján - NAST, R. - JUNG, A. - VOJENČIAK, Michal - GRILLI, F. - GOLDACKER, W. Low AC loss cable produced from transported striated CC tapes. In *Superconductor Science and Technology*, 2013, vol. 26, 075020. (2.758 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
- [1.1] HOPKINS, S.C. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. SEP 2015, vol. 28, no. 9., WOS*
 - [1.1] TAKACS, S. In *CRYOGENICS. JAN 2015, vol. 65, p. 1-4., WOS*
 - [1.1] YANAGISAWA, Y. - XU, Y. - IGUCHI, S. - HAMADA, M. - MATSUMOTO, S. - NISHIJIMA, G. - NAKAGOME, H. - TAKAO, T. - SUEMATSU, H. - OSHIMA, Y. - JIN, X. - TAKAHASHI, M. - MAEDA, H. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. DEC 2015, vol. 28, no. 12., WOS*
- ADCA363 ŠOUC, Ján - GÖMÖRY, Fedor - VOJENČIAK, Michal. Coated conductor arrangement for reduced AC losses in a resistive-type superconducting fault current limiter. In *Superconductor Science and Technology*, 2012, vol. 25, 014005. (2.662 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
- [1.1] PARDO, E. - STAINES, M. - JIANG, Z.N. - GLASSON, N. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. NOV 2015, vol. 28, no. 11., WOS*
- ADCA364 ŠOUC, Ján - GÖMÖRY, Fedor - VOJENČIAK, Michal. Calibration free method for measurement of the AC magnetization loss. In *Superconductor Science and Technology*, 2005, vol. 18, p. 592-595. (1.556 - IF2004). (2005 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
- [1.1] ZHANG, M. - YUAN, W.J. - KVITKOVIC, J. - PAMIDI, S. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. NOV 2015, vol. 28, no. 11., WOS*
 - [1.2] Krüger, P. *Optimisation of Hysteretic Losses in High-Temperature Superconducting Wires. PhD Thesis Karlsruhe: KIT Scientific Publishing, 2014. ISBN 978 3 73150 185 5 pp. 1-218, SCOPUS*
- ADCA365 ŠOUC, Ján - PARDO, Enric - VOJENČIAK, Michal - GÖMÖRY, Fedor. Theoretical and experimental study of AC loss in high temperature superconductor single pancake coils. In *Superconductor Science and Technology*, 2009, vol. 22, 015006. (1.847 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
- [1.1] HU, D. - AINSLIE, M.D. - RUSH, J.P. - DURRELL, J.H. - ZOU, J. - RAINE, M.J. - HAMPSHIRE, D.P. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. JUN 2015, vol. 28, no. 6., WOS*
 - [1.1] MORANDI, A. - FABBRI, M. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. FEB 2015, vol. 28, no. 2., WOS*
 - [1.1] WANG, W. - COOMBS, T. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. MAY 2015, vol. 28, no. 5., WOS*
 - [1.1] ZHANG, M. - YUAN, W.J. - KVITKOVIC, J. - PAMIDI, S. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. NOV 2015, vol. 28, no. 11., WOS*
 - [1.2] Bruyn, B.J.H.D., Jansen, J.W., Lomonova, E.A. *Archives of Electrical Engineering* 64 (2015), pp. 559-570, SCOPUS
 - [1.2] Ruuskanen, J., Stenvall, A., Lahtinen, V. *IEEE Transactions on Applied Superconductivity* 25 (2015), 8200405, SCOPUS
- ADCA366 ŠPANKOVÁ, Marianna - VÁVRA, Ivo - CHROMIK, Štefan - HARASEK, S. - LUPTÁK, Roman -

- ŠOLTÝS, Ján - HUŠEKOVÁ, Kristína. Structural properties of Y2O3 thin films grown on Si(100) and Si(111) substrates. In Materials Science and Engineering B. B.Solid-State Materials for Advanced Technology. - Lausanne : Elsevier Science, 2005, vol. 16, p. 30-33. (0.924 - IF2004). (2005 - Current Contents, SCOPUS). ISSN 0921-5107.
- Citácie:
- [1.1] LIN, K.C. - JUAN, P.C. - LIU, C.H. - WANG, M.C. - CHOU, C.H. In MICROELECTRONICS RELIABILITY. NOV 2015, vol. 55, no. 11, p. 2198-2202., WOS
 - [1.1] WU, Y.Y. - HE, D. - ZHANG, H. - LI, S. - LIU, X.P. - WANG, S.M. - JIANG, L.J. In FUSION ENGINEERING AND DESIGN. JAN 2015, vol. 90, p. 105-109., WOS
- ADCA367 ŠPANKOVÁ, Marianna - CHROMIK, Štefan - VÁVRA, Ivo - SEDLÁČKOVÁ, K. - LOBOTKA, Peter - LUCAS, S. - STANČEK, S. Epitaxial LSMO films grown on MgO single crystalline substrates. In Applied Surface Science, 2007, vol. 253, p. 7599-7603. (1.440 - IF2006). (2007 - Current Contents). ISSN 0169-4332.
- Citácie:
- [1.1] VENGALIS, B. - CERNIUK, I. - MANEIKIS, A. - OGINSKIS, A.K. - GRIGALIUNAITE-VONSEVICIENE, G. In LITHUANIAN JOURNAL OF PHYSICS. 2015, vol. 55, no. 2, p. 132-141., WOS
 - [1.1] XIE, H.P. - HUANG, H. - CAO, N.T. - ZHOU, C.H. - NIU, D.M. - GAO, Y.L. In PHYSICA B-CONDENSED MATTER. NOV 15 2015, vol. 477, p. 14-19., WOS
- ADCA368 ŠPANKOVÁ, Marianna - VÁVRA, Ivo - GAŽI, Štefan - MACHAJDÍK, Daniel - CHROMIK, Štefan - FRÖHLICH, Karol - HELLEMANS, L. - BEŇAČKA, Štefan. Growth and recrystallization of CeO2 thin films deposited on R-plane sapphire by off-axis RF sputtering. In Journal of Crystal Growth, 2000, vol. 218, p. 287-293. (1.490 - IF1999). (2000 - Current Contents). ISSN 0022-0248.
- Citácie:
- [1.1] DEVELOS-BAGARINAO, K. - KISHIMOTO, H. - YAMAJI, K. - HORITA, T. - YOKOKAWA, H. In NANOTECHNOLOGY. MAY 29 2015, vol. 26, no. 21., WOS
 - [1.2] Develos-Bagarinao, K.: In Oxide Thin Films, Multilayers, and Nanocomposites Eds: P. Mele, T. Endo, S. Arisawa, C. Li, T. Tsuchiya ISBN: 978-3-319-14477-1. Springer 2015 P. 213-235, SCOPUS
- ADCA369 ŠTRBÍK, Vladimír - REIFFERS, Marián - DOBROČKA, Edmund - ŠOLTÝS, Ján - ŠPANKOVÁ, Marianna - CHROMIK, Štefan. Epitaxial LSMO thin films with correlation of electrical and magnetic properties above 400 K. In Applied Surface Science, 2014, vol. 312, p. 212-215. (2.538 - IF2013). (2014 - Current Contents). ISSN 0169-4332.
- Citácie:
- [1.1] DUTTA, P. - MAJUMDAR, S. - BANDYOPADHYAY, S. - DAS, D. - CHATTERJEE, S. In JOURNAL OF ALLOYS AND COMPOUNDS. DEC 25 2015, vol. 653, p. 585-590., WOS
 - [1.1] SHIOTA, T. - SATO, K. - CROSS, J.S. - WAKIYA, N. - TACHIKAWA, S. - OHNISHI, A. - SAKURAI, O. - SHINOZAKI, K. In THIN SOLID FILMS. OCT 30 2015, vol. 593, p. 1-4., WOS
 - [1.2] Zhang, S., Guo, D., Wang, M., Javed, M.S., Hu, C. 2015 Applied Surface Science 335, pp. 115-120, SCOPUS
- ADCA370 ŠVANČÁREK, Peter - LENDVAYOVÁ, S. - GALUSEK, Dušan - HNATKO, Miroslav - VÁVRA, Ivo - WANG, X. Abrasive wear resistance of SiO2-doped polycrystalline alumina. In Wear : an international journal on the science and technology of friction, lubrication and wear, 2011, vol. 271, no. 5-6, p. 760-769. (1.635 - IF2010). (2011 - Current Contents). ISSN 0043-1648.
- Citácie:
- [1.1] UYGUNOGLU, Tayfun - BROSTOW, Witold - GUNES, Ibrahim. Wear and friction of composites of an epoxy with boron containing wastes. In POLIMEROS-CIENCIA E TECNOLOGIA. ISSN 0104-1428, 2015, vol. 25, no. 3, pp. 271., WOS
 - [1.2] Milak, P.C., Minatto, F.D., De Noni, A., Montedo, O.R.K. Ceramica 61 (2015), pp. 88-103, SCOPUS
- ADCA371 TAKÁCS, Silvester. Acceptable coupling losses in coated conductors at industrial frequencies without twisting the superconducting stripes. In Journal of Applied Physics, 2008, vol. 103, 053907. (2.171 - IF2007). (2008 - Current Contents, SCOPUS). ISSN 0021-8979.
- Citácie:
- [1.1] MAJOROS, M. - SUMPTION, M.D. - COLLINGS, E.W. - LONG, N.J. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. MAY 2015, vol. 28, no. 5., WOS
- ADCA372 TAKÁCS, Silvester. Acceptable coupling losses in striated coated conductors or twisted cables ensuring current sharing between superconducting filaments. In Superconductor Science and Technology, 2013, vol. 26, 055022. (2.758 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
- [1.1] MAJOROS, M. - SUMPTION, M.D. - COLLINGS, E.W. - LONG, N.J. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. MAY 2015, vol. 28, no. 5., WOS

- ADCA373 TAKÁCS, Silvester. Low coupling losses in YBa₂Cu₃O₇ coated conductors with current sharing between the superconducting stripes. In Applied Physics Letters, 2007, vol. 90, 242505. (3.977 - IF2006). (2007 - Current Contents, SCOPUS). ISSN 0003-6951.
Citácie:
1. [1.1] MAJOROS, M. - SUMPTION, M.D. - COLLINGS, E.W. - LONG, N.J. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. MAY 2015, vol. 28, no. 5., WOS
- ADCA374 TAKÁCS, Silvester - GÖMÖRY, Fedor. Study of flux flow in high T_c superconductors. In Physica C : superconductivity and its applications, 1989, vol. 162-164, p. 681. ISSN 0921-4534.
Citácie:
1. [1.1] AHMED, S. - KHAN, N.A. - MUMTAZ, M. - KHURRAM, A.A. In RADIATION PHYSICS AND CHEMISTRY. JUL 2015, vol. 112, p. 145-150., WOS
- ADCA375 ĎAPAJNA, Milan - PASKALEVA, A. - ATANASSOVA, E. - DOBROČKA, Edmund - HUŠEKOVÁ, Kristína - FRÖHLICH, Karol. Gate oxide thickness dependence of the leakage current mechanism in Ru/Ta₂O₅/SiON/Si structures. In Semiconductor Science and Technology, 2010, vol. 25, 075007. (1.253 - IF2009). (2010 - Current Contents). ISSN 0268-1242.
Citácie:
1. [1.1] VIJAYAKUMAR, V. - VARADARAJAN, B. In MATERIALS RESEARCH EXPRESS. APR 2015, vol. 2, no. 4., WOS
- ADCA376 ĎAPAJNA, Milan - ČIČO, Karol - KUZMÍK, Ján - POGANY, D. - POZZOVIVO, G. - STRASSER, G. - CARLIN, J.-F. - GRANDJEAN, N. - FRÖHLICH, Karol. Thermally induced voltage shift in capacitance-voltage characteristics and its relation to oxide/semiconductor interface states in Ni/Al₂O₃/InAlN/GaN heterostructures. In Semiconductor Science and Technology, 2009, vol. 24, 035008. (1.434 - IF2008). (2009 - Current Contents). ISSN 0268-1242.
Citácie:
1. [1.1] MEHARI, S. - GAVRILOV, A. - EIZENBERG, M. - RITTER, D. In IEEE ELECTRON DEVICE LETTERS. SEP 2015, vol. 36, no. 9, p. 893-895., WOS
- ADCA377 ĎAPAJNA, Milan - KILLAT, N. - PALANKOVSKI, V. - GREGUŠOVÁ, Dagmar - ČIČO, Karol - CARLIN, J.-F. - GRANDJEAN, N. - KUBALL, M. - KUZMÍK, Ján. Hot-electron-related degradation in InAlN/GaN high-electron-mobility transistors. In IEEE Transactions on Electron Devices, 2014, vol. 61, p. 2793-2801. (2.358 - IF2013). (2014 - Current Contents). ISSN 0018-9383.
Citácie:
1. [1.1] BERTHET, F. - PETITDIDIER, S. - GUHEL, Y. - TROLET, J.L. - MARY, P. - GAQUIERE, C. - BOUDART, B. In 2015 15TH EUROPEAN CONFERENCE ON RADIATION AND ITS EFFECTS ON COMPONENTS AND SYSTEMS (RADECS). 2015., WOS
2. [1.1] BISI, D. - CHINI, A. - SOCI, F. - STOCCO, A. - MENEGHINI, M. - PANTELLINI, A. - NANNI, A. - LANZIERI, C. - GAMARRA, P. - LACAM, C. - TORDJMAN, M. - DI-FORTE-POISSON, M.A. - MENEGHESSO, G. - ZANONI, E. In IEEE ELECTRON DEVICE LETTERS. OCT 2015, vol. 36, no. 10, p. 1011-1014., WOS
3. [1.1] DOWNEY, B.P. - MEYER, D.J. - ROUSSOS, J.A. - KATZER, D.S. - ANCONA, M.G. - PAN, M. - GAO, X. In IEEE TRANSACTIONS ON DEVICE AND MATERIALS RELIABILITY. DEC 2015, vol. 15, no. 4, p. 474-477., WOS
4. [1.1] DYSON, A. - NAYLOR, D.R. - RIDLEY, B.K. In IEEE TRANSACTIONS ON ELECTRON DEVICES. NOV 2015, vol. 62, no. 11, p. 3613-3618., WOS
5. [1.1] LEE, G.Y. - TU, P.T. - CHYI, J.I. In APPLIED PHYSICS EXPRESS. JUN 2015, vol. 8, no. 6., WOS
6. [1.1] PETITDIDIER, S. - BERTHET, F. - GUHEL, Y. - TROLET, J.L. - MARY, P. - GAQUIERE, C. - BOUDART, B. In MICROELECTRONICS RELIABILITY. AUG-SEP 2015, vol. 55, no. 9-10, p. 1719-1723., WOS
- ADCA378 ĎAPAJNA, Milan - KUZMÍK, Ján. Control of threshold voltage in GaN based metal-oxide-semiconductor high-electron mobility transistors towards the normally-off operation. In Japanese Journal of Applied Physics, 2013, vol. 52, 08JN08. (1.067 - IF2012). (2013 - Current Contents). ISSN 0021-4922.
Citácie:
1. [1.1] KIM, J.J. - PARK, Y.R. - JANG, H.G. - NA, J.H. - LEE, H.S. - KO, S.C. - JUNG, D.Y. - LEE, H.S. - MUN, J.K. - LIM, J.H. - YANG, J.W. In JAPANESE JOURNAL OF APPLIED PHYSICS. MAR 2015, vol. 54, no. 3., WOS
2. [1.1] OSVALD, J. - STOKLAS, R. - KORDOS, P. In PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS. MAY 2015, vol. 252, no. 5, SI, p. 996-1000., WOS
3. [1.1] SWAIN, R. - JENA, K. - LENKA, T.R. In SUPERLATTICES AND MICROSTRUCTURES. AUG 2015, vol. 84, p. 54-65., WOS
4. [1.1] SWAIN, R. - PANDA, J. - JENA, K. - LENKA, T.R. In JOURNAL OF COMPUTATIONAL ELECTRONICS. SEP 2015, vol. 14, no. 3, p. 754-761., WOS
5. [1.2] Nagy, L., Stopjaková, V., Šatka, A. IEEE 18th International Symposium on Design and

- ADCA379 *Diagnostics of Electronic Circuits and Systems, DDECS 2015 7195673, pp. 83-86, SCOPUS*
ĎAPAJNA, Milan - JURKOVIČ, Michal - VALIK, L. - HAŠČÍK, Štefan - GREGUŠOVÁ, Dagmar - BRUNNER, F. - CHO, E.-M. - KUZMÍK, Ján. Bulk and interface trapping in the gate dielectric of GaN based metal-oxide-semiconductor high-electron mobility transistors. In Applied Physics Letters, 2013, vol. 102, 243509. (3.794 - IF2012). (2013 - Current Contents). ISSN 0003-6951.
 Citácie:
 1. [1.1] *WU, T.L. - MARCON, D. - RONCHI, N. - BAKERROOT, B. - YOU, S.Z. - STOFFELS, S. - VAN HOVE, M. - BISI, D. - MENEGHINI, M. - GROESENEKEN, G. - DECOUTERE, S. In SOLID-STATE ELECTRONICS. JAN 2015, vol. 103, p. 127-130., WOS*
- ADCA380 ĎAPAJNA, Milan - JURKOVIČ, Michal - VÁLIK, Lukáš - HAŠČÍK, Štefan - GREGUŠOVÁ, Dagmar - BRUNNER, F. - CHO, E.-M. - HASHIZUME, T. - KUZMÍK, Ján. Impact of GaN cap on charges in Al₂O₃/(GaN)/AlGaIn/GaN metal-oxide-semiconductor heterostructures analyzed by means of capacitance measurements and simulations. In Journal of Applied Physics, 2014, vol. 116, 104501. (2.185 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0021-8979.
 Citácie:
 1. [1.1] *HE, Y.L. - LI, P.X. - WANG, C. - LI, X.D. - ZHAO, S.L. - MI, M.H. - PEI, J.Q. - ZHANG, J.C. - MA, X.H. - HAO, Y. In APPLIED PHYSICS LETTERS. AUG 10 2015, vol. 107, no. 6., WOS*
 2. [1.1] *QIN, X.Y. - CHENG, L.X. - MCDONNELL, S. - AZCATL, A. - ZHU, H. - KIM, J.Y. - WALLACE, R.M. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. JUL 2015, vol. 26, no. 7, SI, p. 4638-4643., WOS*
 3. [1.1] *QIN, X.Y. - WALLACE, R.M. In APPLIED PHYSICS LETTERS. AUG 24 2015, vol. 107, no. 8., WOS*
 4. [1.1] *ZHU, J.J. - MA, X.H. - XIE, Y. - HOU, B. - CHEN, W.W. - ZHANG, J.C. - HAO, Y. In IEEE TRANSACTIONS ON ELECTRON DEVICES. FEB 2015, vol. 62, no. 2, p. 512-518., WOS*
- ADCA381 ĎAPAJNA, Milan - ROSOVÁ, Alica - DOBROČKA, Edmund - ŠTRBÍK, Vladimír - GAŽI, Štefan - FRÖHLICH, Karol - BENKO, P. - HARMATHA, L. - MANKE, C. - BAUMANN, P.K. Work function thermal stability of RuO₂-rich Ru-Si-O p-channel metal-oxide-semiconductor field-effect transistor gate electrodes. In Journal of Applied Physics, 2008, vol. 103, art. no. 073702. (2.171 - IF2007). (2008 - Current Contents, SCOPUS). ISSN 0021-8979.
 Citácie:
 1. [1.1] *KACZMARSKI, J. - GROCHOWSKI, J. - KAMINSKA, E. - TAUBE, A. - DYCZEWSKI, J. - JUNG, W. - DYNOWSKA, E. - PIOTROWSKA, A. In JOURNAL OF DISPLAY TECHNOLOGY. JUN 2015, vol. 11, no. 6, p. 528-532., WOS*
- ADCA382 ĎAPAJNA, Milan - KILLAT, N. - MOEREKE, J. - PASKOVA, T. - EVANS, Kevin R. - LEACH, J. - LI, X. - OZGUR, U. - MORKOC, H. - CHABAK, K.D. - CRESPO, A. - GILLESPIE, J.K. - FITCH, R. - KOSSLER, M. - WALKER, D.E. - TREJO, M. - VIA, G.D. - BLEVINS, J.D. - KUBALL, M. Non-arrhenius degradation of AlGaIn/GaN HEMTs grown on bulk GaN substrates. In IEEE Electron Devices Letters, 2012, vol. 33, p. 1126-1128. (2.849 - IF2011). (2012 - Current Contents). ISSN 0741-3106.
 Citácie:
- ADCA383 ĎAPAJNA, Milan - JIMENEZ, J.L. - KUBALL, M. On the discrimination between bulk and surface traps in AlGaIn/GaN HEMTs from trapping characteristics. In Physica status solidi A, 2012, vol. 209, p. 386-389. (1.463 - IF2011). (2012 - Current Contents). ISSN 1862-6300.
 Citácie:
 1. [1.1] *Janke, W., Wojtasiak, W. Przegląd Elektrotechniczny 91 (2015), pp. 65-73, SCOPUS*
 2. [1.1] *MENEGHINI, M. - VANMEERBEEK, P. - SILVESTRI, R. - DALCANALE, S. - BANERJEE, A. - BISI, D. - ZANONI, E. - MENEGHESSO, G. - MOENS, P. In IEEE TRANSACTIONS ON ELECTRON DEVICES. MAR 2015, vol. 62, no. 3, p. 782-787., WOS*
- ADCA384 ĎAPAJNA, Milan - KUZMÍK, Ján. A comprehensive analytical model for threshold voltage calculation in GaN based metal-oxide-semiconductor high-electron-mobility transistors. In Applied Physics Letters, 2012, vol. 100, 113509. (3.844 - IF2011). (2012 - Current Contents). ISSN 0003-6951.
 Citácie:
 1. [1.1] *CAPRIOTTI, M. - FLEURY, C. - BETHGE, O. - RIGATO, M. - LANCASTER, S. - POGANY, D. - STRASSER, G. - BAHAT-TREIDEL, E. - BRUNNER, O.H.F. - WURFL, J. In ESSDERC 2015 PROCEEDINGS OF THE 45TH EUROPEAN SOLID-STATE DEVICE RESEARCH CONFERENCE. 2015, p. 60-63., WOS*
 2. [1.1] *CAPRIOTTI, M. - LAGGER, P. - FLEURY, C. - OPOSICH, M. - BETHGE, O. - OSTERMAIER, C. - STRASSER, G. - POGANY, D. In JOURNAL OF APPLIED PHYSICS. JAN 14 2015, vol. 117, no. 2., WOS*
 3. [1.1] *CHOU, B.-Y. - HSU, W.-C. - LIU, H.-Y. - LEE, C.-S. - WU, Y.-S. - SUN, W.-C. - WEI,*

- S.-Y. - YU, S.-M. - CHIANG, M.-H. In *SEMICONDUCTOR SCIENCE AND TECHNOLOGY*. JAN 2015, vol. 30, no. 1., WOS
4. [1.1] DOWNEY, B.P. - MEYER, D.J. - KATZER, D.S. - MARRON, T.M. - PAN, M. - GAO, X. In *SOLID-STATE ELECTRONICS*. APR 2015, vol. 106, p. 12-17., WOS
5. [1.1] HAHN, H. - BENKHELIFA, F. - AMBACHER, O. - BRUNNER, F. - NOCULAK, A. - KALISCH, H. - VESCAN, A. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. FEB 2015, vol. 62, no. 2, p. 538-545., WOS
6. [1.1] HAHN, H. - PECS, B. - KOVACS, A. - HEUKEN, M. - KALISCH, H. - VESCAN, A. In *JOURNAL OF APPLIED PHYSICS*. JUN 7 2015, vol. 117, no. 21., WOS
7. [1.1] QIN, X.Y. - CHENG, L.X. - MCDONNELL, S. - AZCATL, A. - ZHU, H. - KIM, J.Y. - WALLACE, R.M. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*. JUL 2015, vol. 26, no. 7, SI, p. 4638-4643., WOS
8. [1.1] SWAIN, R. - JENA, K. - LENKA, T.R. - DASH, G.N. - PANDA, A.K. In *PROCEEDINGS OF THE 2015 IEEE INTERNATIONAL CONFERENCE ON ELECTRON DEVICES AND SOLID-STATE CIRCUITS (EDSSC)*. 2015, p. 399-402., WOS
9. [1.1] SWAIN, R. - LENKA, T.R. In *2015 IEEE REGION 10 CONFERENCE (TENCON 2015)*. 2015., WOS
10. [1.1] SWAIN, R. - LENKA, T.R. In *PROCEEDINGS OF THE 2015 IEEE INTERNATIONAL CONFERENCE ON ELECTRON DEVICES AND SOLID-STATE CIRCUITS (EDSSC)*. 2015, p. 567-570., WOS
11. [1.1] SWAIN, R. - PANDA, J. - JENA, K. - LENKA, T.R. In *JOURNAL OF COMPUTATIONAL ELECTRONICS*. SEP 2015, vol. 14, no. 3, p. 754-761., WOS
12. [1.1] WINZER, A. - SZABO, N. - OCKER, J. - HENTSCHEL, R. - SCHUSTER, M. - SCHUBERT, F. - GARTNER, J. - WACHOWIAK, A. - MIKOLAJICK, T. In *JOURNAL OF APPLIED PHYSICS*. SEP 28 2015, vol. 118, no. 12., WOS
13. [1.1] YATABE, Z. - ASUBAR, J.T. - SATO, T. - HASHIZUME, T. In *PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE*. MAY 2015, vol. 212, no. 5, SI, p. 1075-1080., WOS
14. [1.1] ZHU, J.J. - MA, X.H. - XIE, Y. - HOU, B. - CHEN, W.W. - ZHANG, J.C. - HAO, Y. In *IEEE TRANSACTIONS ON ELECTRON DEVICES*. FEB 2015, vol. 62, no. 2, p. 512-518., WOS
- ADCA385 ĎAPAJNA, Milan - PÍSEČNÝ, Pavol - LUPTÁK, Roman - HUŠEKOVÁ, Kristína - FRÖHLICH, Karol - HARMATHA, L. - HOOKER, J.C. - ROOZEBOOM, F. - JERGEL, Matej. Application of Ru-based gate materials for CMOS technology. In *Materials science in semiconductor processing*, 2004, vol. 7, p. 271-276.
Citácie:
1. [1.1] NOMURA, K. - KONDO, Y. - KAWAE, T. - MORIMOTO, A. In *ECS SOLID STATE LETTERS*. 2015, vol. 4, no. 5, p. N1-N4., WOS
2. [1.1] ZHANG, H.X. - ZHANG, C.M. - WANG, P.F. In *2015 China Semiconductor Technology International Conference*. 2015, CSTIC 2015 7153392, WOS
- ADCA386 TERZIEVA, S. - VOJENČIAK, Michal - PARDO, Enric - GRILLI, F. - DRECHSLER, A. - KLING, A. - KUDYMOW, A. - GÖMÖRY, Fedor - GOLDACKER, W. Transport and magnetization ac losses of ROEBEL assembled coated conductor cables: measurements and calculations. In *Superconductor Science and Technology*, 2010, vol. 23, 014023. (2.694 - IF2009). (2010 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
Citácie:
1. [1.1] MAJOROS, M. - SUMPTION, M.D. - COLLINGS, E.W. - LONG, N.J. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. MAY 2015, vol. 28, no. 5., WOS
2. [1.1] SOGABE, Y. - NII, M. - TSUKAMOTO, T. - NAKAMURA, T. - AMEMIYA, N. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. JUN 2014, vol. 24, no. 3., WOS
- ADCA387 TERZIEVA, S. - VOJENČIAK, Michal - GRILLI, F. - NAST, R. - ŠOUČ, Ján - GOLDACKER, W. - JUNG, A. - KUDYMOW, A. - KLING, A. Investigation of the effect of striated strands on the AC losses of 2G Roebel cables. In *Superconductor Science and Technology*, 2011, vol. 24, 045001. (2.402 - IF2010). (2011 - Current Contents, SCOPUS). ISSN 0953-2048.
Citácie:
1. [1.1] CAI, X.W. - KESGIN, I. - SELVAMANICKAM, V. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. JUN 2015, vol. 25, no. 3., WOS
2. [1.1] MAJOROS, M. - SUMPTION, M.D. - COLLINGS, E.W. - LONG, N.J. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. MAY 2015, vol. 28, no. 5., WOS
3. [1.1] TAKACS, S. In *CRYOGENICS*. JAN 2015, vol. 65, p. 1-4., WOS
- ADCA388 THAKUR, K.P. - RAJ, A. - BRANDT, E.H. - KVITKOVIČ, Jozef - PAMIDI, S.V. Frequency-dependent critical current and transport ac loss of superconductor strip and Roebel cable. In *Superconductor Science and Technology*, 2011, vol. 24, 065024. (2.402 - IF2010). (2011 - Current Contents, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] TAKACS, S. In *CRYOGENICS*. JAN 2015, vol. 65, p. 1-4., WOS
2. [1.1] ZHANG, Z.Y. - ZHANG, M. - ZHU, J.H. - NIE, Z.X. - ZHANG, G.M. - QU, T.M. - YUAN, W.J. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. JUN 2015, vol. 25, no. 3., WOS
3. [1.2] Jaroszyński, L., Janowski, T. *Przegląd Elektrotechniczny* 91 (2015), pp. 284-287, SCOPUS
4. [1.2] Liu, H., Li, G., Zhang, H., Wang, Y. *IEEE Transactions on Applied Superconductivity* 25 (2015), 6936869, SCOPUS
5. [1.2] Tsukamoto, T., Mifune, T., Sogabe, Y., Jiang, Z., Nakamura, T., Amemiya, N *IEEE Transactions on Applied Superconductivity* 25 (2015), 6954476, SCOPUS

ADCA389 TÓBIK, Jaroslav - CAMBEL, Vladimír - KARAPETROV, Goran. Dynamics of vortex nucleation in nanomagnets with broken symmetry. In *Physical Review B*, 2012, vol. 86, 134433. (3.691 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 1550-235X.

Citácie:

1. [1.1] BI, M. - WANG, X. - LU, H.P. - ZHANG, L. - DENG, L.J. - XIE, J.J. In *IEEE TRANSACTIONS ON MAGNETICS*. NOV 2015, vol. 51, no. 11., WOS

ADCA390 TOMASEK, M. - PLECENIK, T. - TRUCHLY, M. - NOSKOVIC, J. - ROCH, T. - ZAHORAN, M. - CHROMIK, Štefan - ŠPANKOVÁ, Marianna - KÚŠ, P. - PLECENIK, Andrej. Temperature dependence of the resistance switching effect studied on the metal/YBa₂Cu₃O_{6+x} planar junctions. In *Journal of Vacuum Science and Technology B*, 2011, vol. 29, art.no. 01AD04. (1.268 - IF2010). (2011 - Current Contents). ISSN 1071-1023.

Citácie:

1. [1.2] Waśkiewicz, J., Gołębiowski, J. *Przegląd Elektrotechniczny* 91 (2015), pp. 313-317, SCOPUS

ADCA391 TRGALA, M. - ŽEMLIČKA, M. - NEILINGER, P. - REHÁK, M. - LEPORIS, M. - GAŽI, Štefan - GREGUŠ, J. - PLECENIK, T. - ROCH, T. - DOBROČKA, Edmund - GRAJCAR, M. Superconducting MoC thin films with enhanced sheet resistance. In *Applied Surface Science*, 2014, vol. 312, p. 216-219. (2.538 - IF2013). (2014 - Current Contents). ISSN 0169-4332.

Citácie:

1. [1.1] JIAO, G.H. - LIU, B. - LI, Q.R. In *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING*. AUG 2015, vol. 120, no. 2, p. 579-585., WOS

ADCA392 UEDA, K. - NISHINO, T. - OKUNISHI, K. - HIEIDA, Y. - DERIAN, René - GENDIAR, Andrej. Product wave function renormalization group: Construction from the matrix product point of view. In *Journal of Physical Society of Japan*, 2006, vol. 75, 014003.

Citácie:

1. [1.1] PFEIFER, R.N.C. In *PHYSICAL REVIEW B*. NOV 23 2015, vol. 92, no. 20., WOS

ADCA393 ULBRICHT, A. - DUCHATEAU, J.L. - FIETZ, W.H. - CIAZYNSKI, D. - FILLUNGER, H. - FINK, S. - HELLER, R. - MAIX, R. - NICOLLET, S. - RAFF, S. - RICCI, M. - SALPIETRO, E. - ZAHN, G. - ZANINO, R. - BAGNASCO, M. - BESETTE, D. - BOBROV, E. - BONICELLI, T. - BRUZZONE, P.L. - DARWESCHSAD, M.S. - DECOOL, P. - DOLGETTA, N. - DELLA CORTE, A. - FORMISANO, A. - GRÜNHAGEN, A. - HERTOUT, P. - HERZ, W. - HUGUET, M. - HURD, F. - ILYIN, Yu. - KOMAREK, P. - LIBEYRE, P. - MARCHESE, V. - MARINUCCI, C. - MARTINEZ, A. - MARTONE, R. - MARTOVETSKY, N.N. - MICHAEL, P. - MITCHELL, N. - NIJHUIS, A. - NÖTHER, G. - NUNOYA, Y. - POLÁK, Milan - PORTONE, A. - SAVOLDI RICHARD, L. - SPADONI, M. - SÜßER, M. - TURTÚ, S. - VOSTNER, A. - TAKAHASHI, Y. - WUCHNER, F. - ZANI, L. The ITER toroidal field model coil project. In *Fusion Engineering and Design*, 2005, vol. 73, p. 189-327.

Citácie:

1. [1.1] MARTUCCIELLO, N. - GIUBILEO, F. - GRIMALDI, G. - CORATO, V. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. JUL 2015, vol. 28, no. 7., WOS
2. [1.1] ZHU, C.X. - ZHENG, J.X. - LIU, X.F. - WANG, L. - KANG, R. In *FUSION ENGINEERING AND DESIGN*. DEC 2015, vol. 101, p. 9-16., WOS

ADCA394 UŠÁK, Pavol - SASTRY, P.V.P.S. - SCHWARTZ, J. Model inverse calculation of current distributions in the cross-section of a superconducting cable. In *Physica C : superconductivity and its applications*, 2006, vol. 434, p. 1-5. (0.948 - IF2005). (2006 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.

Citácie:

1. [1.2] Tian, S., Li, H., Zhang, D., Li, Y. *Studies in Applied Electromagnetics and Mechanics* 40, (2015) 167-175, SCOPUS

ADCA395 UŠÁK, Pavol. The measurements of current distribution in superconducting tape. In *Physica C. Superconductivity and its applications*, 2003, vol. 384, p. 93-101. (0.912 - IF2002). (2003 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.

- Citácie:
 1. [1.1] FETISOV, S.S. - SOTNIKOV, D.V. - ZANEGIN, S.Y. - BYKOVSKY, N.V. - RADCHENKO, I.P. - ZUBKO, V.V. - VYSOTSKY, V.S. In *PROCEEDINGS OF THE 25TH INTERNATIONAL CRYOGENIC ENGINEERING CONFERENCE AND INTERNATIONAL CRYOGENIC MATERIALS CONFERENCE 2014*. 2015, vol. 67, p. 931-938., WOS
- ADCA396 UŠÁK, Pavol - POLÁK, Milan - MOZOLA, Pavol. Measurement of the lateral transport current distribution in YBCO tape. In *IEEE Transactions on Applied Superconductivity*, 2009, vol. 19, p. 2839-2842. (0.919 - IF2008). (2009 - Current Contents, SCOPUS).
 Citácie:
 1. [1.2] Tallouli, M., Sun, J., Shyshkin, O., Ninomia, A., Hamabe, M., Watanabe, H., Chikumoto, N., Kaddour, S.C., Yamaguchi, S. *IEEE Transactions on Applied Superconductivity* 25 (2015), 6963279, SCOPUS
- ADCA397 VAGOVIČ, Patrik - ŠVÉDA, L. - CECILIA, A. - HAMANN, E. - PELLICCIA, D. - GIMENEZ, E.N. - KORYTÁR, Dušan - PAVLOV, K.M. - ZÁPRAŽNÝ, Zdenko - ZUBER, M. - KOENIG, T. - OLBINADO, M. - YASHIRO, W. - MOMOSE, A. - FIEDERLE, M. - BAUMBACH, T. X-ray Bragg magnifier microscope as a linear shift invariant imaging system: image formation and phase retrieval. In *Optics Express*, 2014, vol. 22, 21508. (3.525 - IF2013). (2014 - Current Contents). ISSN 1094-4087.
 Citácie:
 1. [1.1] HIRANO, K. - YAMASHITA, Y. - TAKAHASHI, Y. - SUGIYAMA, H. In *JOURNAL OF SYNCHROTRON RADIATION*. JUL 2015, vol. 22, 4, p. 956-960., WOS
- ADCA398 VAGOVIČ, Patrik - KORYTÁR, Dušan - CECILIA, A. - HAMANN, E. - ŠVÉDA, L. - PELLICCIA, D. - HÄRTWIG, J. - ZÁPRAŽNÝ, Zdenko - OBERTA, P. - DOLBANYA, I. - SHAWNEY, K. - FLESchIG, U. - FIEDERLE, M. - BAUMBACH, T. High-resolution high-efficiency X-ray imaging system based on the in-line Bragg magnifier and the Medipix detector. In *Journal of Synchrotron Radiation*, 2013, vol. 20, p. 153-159. (2.186 - IF2012). (2013 - Current Contents). ISSN 0909-0495.
 Citácie:
 1. [1.1] CUSATIS, C. In *JOURNAL OF APPLIED CRYSTALLOGRAPHY*. JUN 2015, vol. 48, 3, p. 876-881., WOS
 2. [1.1] HIRANO, K. - YAMASHITA, Y. - TAKAHASHI, Y. - SUGIYAMA, H. In *JOURNAL OF SYNCHROTRON RADIATION*. JUL 2015, vol. 22, 4, p. 956-960., WOS
- ADCA399 VAGOVIČ, Patrik - KORYTÁR, Dušan - MIKULÍK, P. - CECILIA, A. - FERRARI, C. - YANG, Y. - HÄNSCHKE, D. - HAMANN, E. - PELLICCIA, D. - LAFFORD, T.A. - FIEDERLE, M. - BAUMBACH, T. In-line Bragg magnifier based on V-shaped germanium crystals. In *Journal of Synchrotron Radiation*, 2011, vol. 18, p. 753-760. (2.335 - IF2010). (2011 - Current Contents). ISSN 0909-0495.
 Citácie:
 1. [1.1] WU, Y.L. - SUNAGUCHI, N. - LIN, X.J. - WANG, Y.T. - YUASA, T. - HIRANO, K. - HYODO, K. In *JAPANESE JOURNAL OF APPLIED PHYSICS*. SEP 2015, vol. 54, no. 9., WOS
- ADCA400 VALENTOVIČ, Daniel - ČERVENÁK, Ján - LUBY, Štefan - ALDEA, M.L. - BOTILA, T. Some non-equilibrium phenomena in sputtered cdte thin films. In *Physica status solidi A*, 1979, vol. 56, pp. 341-347. ISSN 0031-8965.
 Citácie:
 1. [1.1] PALADE, C. - LEPADATU, A.M. - SLAV, A. - CIUREA, M.L. - LAZANU, S. In *DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES*. OCT-DEC 2015, vol. 10, no. 4, p. 1373-1381., WOS
 2. [1.2] Lepadatu, A.-M., Palade, C., Slav, A., Lazanu, S. *Proceedings of the International Semiconductor Conference, CAS 7355154, (2015) 41-44, SCOPUS*
- ADCA401 VALLO, Martin - LALINSKÝ, Tibor - DOBROČKA, Edmund - VANKO, Gabriel - VINCZE, A. - RÝGER, Ivan. Impact of Ir gate interfacial oxide layers on performance of AlGaIn/GaN HEMT. In *Applied Surface Science*, 2013, vol. 267, p. 159-163. (2.112 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0169-4332.
 Citácie:
 1. [1.1] HUANG, H.L. - LIANG, Y.C. In *SOLID-STATE ELECTRONICS*. DEC 2015, vol. 114, p. 148-154., WOS
- ADCA402 VANKO, Gabriel - LALINSKÝ, Tibor - HAŠČÍK, Štefan - RÝGER, Ivan - MOZOLOVÁ, Želmíra - ŠKRINIAROVÁ, J. - TOMÁŠKA, M. - KOSTIČ, Ivan - VINCZE, A. Impact of SF6 plasma treatment on performance of AlGaIn/GaN HEMT. In *Vacuum*, 2009, vol. 84, p. 235-237. (1.114 - IF2008). (2009 - Current Contents). ISSN 0042-207X.
 Citácie:
 1. [9] JO, Y.W. - SON, D.H. - KANG, H.S. - KIM, D.K. - WON, C.H. - LEE, J.H. *Suppression of current collapse in AlGaIn/GaN HEMT with BCl3/Ar surface treatment and SiO2/Al2O3 double dielectric passivation*. In *Journal of Photonic Science and Technology*. 2014, vol. 4, no. 1, pp.

- 18-21., *Google Scholar*
- ADCA403 VANKO, Gabriel - LALINSKÝ, Tibor - MOZOLOVÁ, Želmíra - LIDAY, J. - VOGRINČIČ, P. - VINCZE, A. - UHEREK, F. - HASČÍK, Štefan - KOSTIČ, Ivan. Nb-Ti/Al/Ni/Au based ohmic contacts to AlGaIn/GaN. In *Vacuum*, 2007, vol. 82, pp. 193-196. (0.830 - IF2006).
Citácie:
1. [1.1] JUNG, Sang Min - LEE, Chang Taek - SHIN, Moo Whan. Investigation of V-Ti/Al/Ni/Au Ohmic contact to AlGaIn/GaN heterostructures with a thin GaN cap layer. In *SEMICONDUCTOR SCIENCE AND TECHNOLOGY*. ISSN 0268-1242, 2015, vol. 30, no. 7, pp., WOS
2. [1.1] REDONDO-CUBERO, A. - VAZQUEZ, L. - ALVES, L. C. - CORREGIDOR, V. - ROMERO, M. F. - PANTELLINI, A. - LANZIERI, C. - MUNOZ, E. Influence of lateral and in-depth metal segregation on the patterning of ohmic contacts for GaN-based devices. In *JOURNAL OF PHYSICS D-APPLIED PHYSICS*. ISSN 0022-3727, 2014, vol. 47, no. 18, pp., WOS
- ADCA404 VANKO, Gabriel - DRŽÍK, Milan - VALLO, Martin - LALINSKÝ, Tibor - KUTIŠ, V. - STANČÍK, S. - RÝGER, Ivan - BENČUROVÁ, Anna. AlGaIn/GaN C-HEMT structures for dynamic stress detection. In *Sensors and Actuators A*, 2011, vol. 172, p. 98-102. (3.368 - IF2010). (2011 - Current Contents). ISSN 0925-4005.
Citácie:
1. [9] WANG, A. *Thermal, stress, and traps effects in AlGaIn/GaN HEMTs*. PhD. Thesis. Universidad Politécnica de Madrid, E.T.S.I. Telecomunicación, 2014., *Google Scholar*
- ADCA405 VANKO, Gabriel - HUDEK, Peter - ZEHETNER, J. - DZUBA, Jaroslav - CHOLEVA, P. - KUTIŠ, V. - VALLO, Martin - RÝGER, Ivan - LALINSKÝ, Tibor. Bulk micromachining of SiC substrate for MEMS sensor applications. In *Microelectronic Engineering*, 2013, vol. 110, p. 260-264. (1.224 - IF2012). (2013 - Current Contents). ISSN 0167-9317.
Citácie:
1. [1.1] SAVRIAMA, Guillaume - BAILLET, Francis - BARREAU, Laurent - BOULMER-LEBORGNE, Chantal - SEMMAR, Nadjib. Optimization of diode pumped solid state ultraviolet laser dicing of silicon carbide chips using design of experiment methodology. In *JOURNAL OF LASER APPLICATIONS*. ISSN 1042-346X, 2015, vol. 27, no. 3, pp., WOS
2. [1.2] ASADI, Esmail - RISSING, Lutz. High surface quality of sintered silicon carbide by chemical mechanical polishing. In *Proceedings of the 15th International Conference of the European Society for Precision Engineering and Nanotechnology, EUSPEN 2015, 2015-01-01*, pp. 41-42., SCOPUS
- ADCA406 VÁVRA, Ivo - KRIŽANOVÁ, Zuzana - DÉRER, Ján - HUMLÍČEK, J. Mo/SiO₂ nanocomposite films for optical coatings prepared by vacuum magnetron sputtering. In *Vacuum*, 2012, vol. 86, p. 742-744. (1.317 - IF2011). (2012 - Current Contents). ISSN 0042-207X.
Citácie:
1. [1.2] Dobrzański, L.A., Golombek, K., Lukaszewicz, K. In *HandBook of Manufacturing Engineering and Technology*. Ed. A.Y. C. Nee. Springer 2015 ISBN 978-1-4471-4669-8 pp. 2719-2754, SCOPUS
- ADCA407 VÁVRA, Ivo - LUBY, Štefan. Resistivity and structure of evaporated polycrystalline molybdenum films. In *Thin Solid Films*, 1980, vol. 69, p. 169-174. ISSN 0040-6090.
Citácie:
1. [1.1] MORGAN, K. - JAECKEL, F.T. - KRIPPS, K.L. - MCCAMMON, D. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*. JUN 2015, vol. 25, no. 3., WOS
- ADCA408 VÁVRA, Ondrej - GAŽI, Štefan - VÁVRA, Ivo - GOLUBOVIČ, J. - DÉRER, Ján - MOSHCHALKOV, V.V. Integration method for visualization of the suppressed Josephson supercurrent. In *Physica C*, 2006, vol. 435, p. 92-95. (0.948 - IF2005). (2006 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.
Citácie:
1. [1.1] SAVINOV, D.A. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. FEB 15 2015, vol. 509, p. 22-28., WOS
- ADCA409 VÁVRA, Ondrej - GAŽI, Štefan - GOLUBOVIČ, J. - VÁVRA, Ivo - DÉRER, Ján - VERBEECK, J. - VAN TENDELOO, G. - MOSHCHALKOV, V.V. 0 and ? phase Josephson coupling through an insulating barrier with magnetic impurities. In *Physical Review B : condensed matter*, 2006, vol. 74, p. 020502. (3.185 - IF2005). (2006 - Current Contents, WOS, SCOPUS). ISSN 1550-235X.
Citácie:
1. [1.1] ALI, A. - SUSANTO, H. - WATTIS, J.A.D. In *JOURNAL OF MATHEMATICAL PHYSICS*. MAY 2015, vol. 56, no. 5., WOS
2. [1.1] SAVINOV, D.A. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*. FEB 15 2015, vol. 509, p. 22-28., WOS
3. [1.1] SCHRADE, C. - ZYUZIN, A.A. - KLINOVAJA, J. - LOSS, D. In *PHYSICAL REVIEW LETTERS*. DEC 1 2015, vol. 115, no. 23., WOS
- ADCA410 VILJAMAA, Jonna - KARIO, A. - DOBROČKA, Edmund - REISSNER, M. - KULICH, Miloslav -

- KOVÁČ, Pavol - HAESSLER, W. Effect of heat treatment temperature on superconducting performance of B4C added MgB2/Nb conductors. In *Physica C*, 2012, vol. 473, p. 34-40. (1.014 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 0921-4534.
- Citácie:
1. [1.1] BURDUSEL, M. - ALDICA, G. - POPA, S. - ENCULESCU, M. - MIHALACHE, V. - KUNCSEK, A. - PASUK, I. - BADICA, P. In *CURRENT APPLIED PHYSICS. OCT 2015*, vol. 15, no. 10, p. 1262-1270., WOS
- ADCA411 VINCZE, A. - LUPTÁK, Roman - HUŠEKOVÁ, Kristína - DOBROČKA, Edmund - FRÖHLICH, Karol. Thermal stability of GdScO3 and LaLuO3 films prepared by liquid injection MOCVD. In *Vacuum*, 2009, vol. 84, p. 170. (1.114 - IF2008). (2009 - Current Contents).
- Citácie:
1. [1.1] FEIJOO, P.C. - PAMPILLON, M.A. - ANDRES, E.S. - FIERRO, J.L.G. In *THIN SOLID FILMS. OCT 30 2015*, vol. 593, p. 62-66., WOS
- ADCA412 VOJENČIAK, Michal - ŠOUC, Ján - CEBALLOS, J.M. - GÖMÖRY, Fedor - KLINČOK, Boris - PARDO, Enric - GRILLI, F. Study of ac loss in Bi-2223/Ag tape under the simultaneous action of ac transport current and ac magnetic field shifted in phase. In *Superconductor Science and Technology*. - Bristol : IOP Publishing, 2006, vol. 19, p. 397-404. (1.896 - IF2005). (2006 - Current Contents, WOS, SCOPUS). ISSN 0953-2048.
- Citácie:
1. [1.1] ZHANG, M. - YUAN, W.J. - KVITKOVIC, J. - PAMIDI, S. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. NOV 2015*, vol. 28, no. 11., WOS
- ADCA413 VOJENČIAK, Michal - GRILLI, F. - STENVALL, A. - KLING, A. - GOLDACKER, W. Influence of the voltage taps position on the self-field DC and AC transport characterization of HTS superconducting tapes. In *Cryogenics*, 2013, vol. 57, p. 189-194. (1.170 - IF2012). (2013 - Current Contents). ISSN 0011-2275.
- Citácie:
1. [1.2] Bayer, C.M., Gade, P.V., Barth, C., Preuß, A., Jung, A., Weiß, K.P. *Superconductor Science and Technology Volume 29, Issue 2, 16 December 2015, Article number 025007, SCOPUS*
- ADCA414 VOJENČIAK, Michal - ŠOUC, Ján - GÖMÖRY, Fedor - SEILER, Eugen. Influence of DC magnetic field on AC loss of YBCO coated conductor with ferromagnetic substrate. In *Acta Physica Polonica A*, 2008, vol. 113, p. 359-361. (0.340 - IF2007). (2008 - Current Contents, WOS, SCOPUS). ISSN 1898-794X.
- Citácie:
1. [1.1] STEPIEN, M.A. - GRZESIK, B. In *2014 IEEE 23RD INTERNATIONAL SYMPOSIUM ON INDUSTRIAL ELECTRONICS (ISIE). 2014*, p. 336-340., WOS
- ADCA415 VOJENČIAK, Michal - ŠOUC, Ján - GÖMÖRY, Fedor. Critical current and AC loss analysis of a superconducting power transmission cable with ferromagnetic diverters. In *Superconductor Science and Technology*, 2011, vol. 24, art. no. 075001. (2.402 - IF2010). (2011 - Current Contents, SCOPUS). ISSN 0953-2048.
- Citácie:
1. [1.1] AINSLIE, M.D. - FUJISHIRO, H. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. MAY 2015*, vol. 28, no. 5., WOS
2. [1.1] DENG, X. - TANG, Y. - REN, L. - SHEN, S. - XU, Y. - SHI, J. - LI, J. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2014*, vol. 24, no. 3., WOS
3. [1.1] HE, A. - XUE, C. - YONG, H.D. - ZHOU, Y.H. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. FEB 2014*, vol. 27, no. 2., WOS
4. [1.1] PHILIPPE, M.P. - AINSLIE, M.D. - WERA, L. - FAGNARD, J.F. - DENNIS, A.R. - SHI, Y.H. - CARDWELL, D.A. - VANDERHEYDEN, B. - VANDEBEMDEN, P. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. SEP 2015*, vol. 28, no. 9., WOS
5. [1.2] Cicek, A., Inanir, F. *Progress in Exergy, Energy, and the Environment Eds. Ibrahim Dincer, Adnan Midilli, Haydar Kucuk. Springer 2014. ISBN: 978-3-319-04680-8. P. 453-458, SCOPUS*
- ADCA416 VOJENČIAK, Michal - GRILLI, F. - TERZIEVA, S. - GOLDACKER, W. - KOVÁČOVÁ, M. - KLING, A. Effect of self-field on the current distribution in Roebel-assembled coated conductor cables. In *Superconductor Science and Technology*, 2011, vol. 24, 095002. (2.402 - IF2010). (2011 - Current Contents, SCOPUS). ISSN 0953-2048.
- Citácie:
1. [1.1] DENISKINA, N.V. - GETMAN, F.I. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JAN 2015*, vol. 26, no. 1., WOS
2. [1.1] MAJOROS, M. - SUMPTION, M.D. - COLLINGS, E.W. - LONG, N.J. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2014*, vol. 24, no. 3., WOS
3. [1.1] MAJOROS, M. - SUMPTION, M.D. - COLLINGS, E.W. - LONG, N.J. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. MAY 2015*, vol. 28, no. 5., WOS

4. [1.1] MAJOROS, M. - SUMPTION, M.D. - COLLINGS, E.W. - VAN DER LAAN, D.C. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. DEC 2014*, vol. 27, no. 12., WOS
5. [1.1] TERAZAKI, Y. - YANAGI, N. - ITO, S. - SEINO, Y. - HAMAGUCHI, S. - TAMURA, H. - MITO, T. - HASHIZUME, H. - SAGARA, A. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. JUN 2015*, vol. 25, no. 3., WOS
- ADCA417 WACHULAK, P.W. - WEGRZYNSKI, L. - ZÁPRAŽNÝ, Zdenko - BARTNIK, A. - FOK, T. - JAROCKI, R. - KOSTECKI, J. - SZCZUREK, M. - KORYTÁR, Dušan - FIEDOROWICZ, H. Extreme ultraviolet tomography of multi-jet gas puff target for high-order harmonic generation. In *Applied Physics B: Lasers and Optics*, 2014, vol. 117, p. 253-263. (1.634 - IF2013). (2014 - Current Contents). ISSN 0946-2171.
Citácie:
1. [1.1] STAFE, Mihai - NEGUTU, Constantin - VASILE, Georgiana C. - PUSCAS, Niculae N. In *UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS. 2015*, vol. 77, no. 1, p. 187-202., WOS
- ADCA418 WEISS, F. - LINDNER, J. - SENATEUR, J.P. - DUBORDIEU, C. - GALINDO, V. - AUDIER, M. - ABRUTIS, A. - ROSINA, Milan - FRÖHLICH, Karol - HAESSLER, W. - OSWALD, Steffen - FIGUERAS, A. - SANTISO, J. Injection MOCVD : ferroelectric thin films and functional oxide superlattices. In *Surface and coatings technology*, 2000, vol. 133-134, p. 191-197.
Citácie:
1. [1.1] LO NIGRO, R. - FISICHELLA, G. - BATTIATO, S. - GRECO, G. - FIORENZA, P. - ROCCAFORTE, F. - MALANDRINO, G. In *MATERIALS CHEMISTRY AND PHYSICS. JUL 15 2015*, vol. 162, p. 461-468., WOS
- ADCA419 WULFF, A.C. - SOLOVYOV, Mykola - GÖMÖRY, Fedor - ABRAHAMSEN, A.B. - MISHIN, O.V. - USOSKIN, A. - RUTT, A. - LUNDEMAN, J.H. - THYDEN, K. - HANSEN, J.B. - GRIVEL, J.C. Two level undercut-profile substrate for filamentary YBa₂Cu₃O₇ coated conductors. In *Superconductor Science and Technology*, 2015, vol. 28, 072001. (2.325 - IF2014). (2015 - Current Contents). ISSN 0953-2048.
Citácie:
1. [1.1] HOPKINS, S.C. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY. SEP 2015*, vol. 28, no. 9., WOS
- ADCA420 XU, Y. - KHAFAZOV, M.L. - SATRAPINSKY, L. - KÚŠ, P. - PLECENIK, Andrej - SOBOLEWSKI, R. Time-resolved photoexcitation of the superconducting two-gap state in MgB₂ thin films. In *Physical Review Letters*, 2003, vol. 91, p. 197004. (7.323 - IF2002). (2003 - Current Contents, WOS, SCOPUS). ISSN 0031-9007.
Citácie:
1. [1.2] Varshney, D., Bhatnagar, S., Varshney, M., Singh, N. *Molecular Simulation* 41 (2015), pp. 1466-1475, SCOPUS
- ADCA421 ZAŤKO, Bohumír - SEDLÁČKOVÁ, K. - DUBECKÝ, František - BOHÁČEK, Pavol - SEKÁČOVÁ, Mária - NEČAS, V. Detection of fast neutrons using detectors based on semi-insulating GaAs. In *Journal of Instrumentation*, 2011, vol. 6, c12047. (3.148 - IF2010). (2011 - Current Contents). ISSN 1748-0221.
Citácie:
1. [1.1] CHERNYKH, A.V. - CHERNYKH, S.V. - DIDENKO, S.I. - KOLTISOV, G.I. - BARYSHNIKOV, F.M. - BRITVICH, G.I. - KOSTIN, M.Y. - CHUBENKO, A.P. - GULY, V.G. - SVESHNIKOV, Y.N. - BURTEBAYEV, N. - BURTEBAYEVA, J.T. In *JOURNAL OF INSTRUMENTATION. JAN 2015*, vol. 10., WOS
- ADCA422 ZÁVIŠOVÁ, Vlasta - KONERACKÁ, Martina - MÚČKOVÁ, Marta - LAZOVÁ, Jana - JURÍKOVÁ, Alena - LANCZ, Gábor - TOMAŠOVIČOVÁ, Natália - TIMKO, Milan - KOVÁČ, Jozef - VÁVRA, Ivo - FABIÁN, Martin - FEOPTYSOV, A. - GARAMUS, Vasil M. - AVDEEV, Mikhail V. - KOPČANSKÝ, Peter. Magnetic fluid poly(ethylene glycol) with moderate anticancer activity. In *Journal of Magnetism and Magnetic Materials*, 2011, vol. 323, no. 10, p. 1408-1412. (1.690 - IF2010). (2011 - Current Contents, WOS, SCOPUS). ISSN 0304-8853.(ICMF 12 : International Conference on Magnetic Fluids).
Citácie:
1. [1.1] ILLES, Erzsebet - TOMBACZ, Etelka - SZEKERES, Marta - TOTH, IldikoY. - SZABO, Akos - IVAN, Bela. Novel carboxylated PEG-coating on magnetite nanoparticles designed for biomedical applications. In *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS. ISSN 0304-8853, 2015*, vol. 380, pp. 132., WOS
2. [1.1] KLOSTER, Gianina A. - MARCOVICH, Norma E. - MOSIEWICKI, Mirna A. Composite films based on chitosan and nanomagnetite. In *EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, MAY 2015*, vol. 66, p. 386-396., WOS
3. [1.1] RADOVIC, Magdalena - PILAR CALATAYUD, Maria - FABIAN GOYA, Gerardo - RICARDO IBARRA, Manuel - ANTIC, Bratislav - SPASOJEVIC, Vojislav - NIKOLIC, Nadezda -

JANKOVIC, Drina - MIRKOVIC, Marija - VRANJES-DURIC, Sanja. Preparation and in vivo evaluation of multifunctional Y-90-labeled magnetic nanoparticles designed for cancer therapy. In JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A. ISSN 1549-3296, 2015, vol. 103, no. 1, pp. 126., WOS

ADCA423 ZHANG, W. - POLÁK, Milan - HELLSTROM, E.E. Study of Ag-sheathed (Bi, Pb)2Sr2CaCu2Ox tape. In Superconductor Science and Technology, 1996, vol. 9, p. 971. (1.493 - IF1995). (1996 - Current Contents, SCOPUS). ISSN 0953-2048.

Citácie:

1. [1.1] LI, C.S. - ZHANG, S.N. - GAO, L. - HAO, Q.B. - BAI, L.F. - ZHANG, P.X. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. JUN 2015, vol. 26, no. 6, p. 3583-3588., WOS

ADCA424 ŽIŽEK, F. - JELÍNEK, Z. - TIMORANSKÝ, Z. - PIEL, H. - CHOVANEC, František - MOZOLA, Pavol - POLÁK, Milan. End-winding region configuration of an HTS transformer. In IEEE Transactions on Applied Superconductivity, 2002, vol. 12, p. 904-906.

Citácie:

1. [1.1] GHABELI, A. - YAZDANI-ASRAMI, M. - BESMI, M.R. - GHOLAMIAN, S.A. In JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM. DEC 2015, vol. 28, no. 12, p. 3463-3479., WOS

ADCB Vedecké práce v zahraničných karentovaných časopisoch – neimpaktovaných

ADCB01 GREGUŠOVÁ, Dagmar - BERNÁT, J. - DRŽÍK, Milan - MARSO, M. - UHEREK, F. - NOVÁK, Jozef - KORDOŠ, Peter. Influence of passivation induced stress on the performance of AlGaIn/GaN HEMTs. In Physica Status Solidi c, 2005, vol. 2, p. 2619-2622. (2005 - Current Contents).

Citácie:

1. [1.1] JABLI, F. - ZAIDI, M.A. - GASSOUMI, M. - MOSBAHI, H. - CHARFEDDINE, M. - ALHARBI, T. - MAAREF, H. In JOURNAL OF ALLOYS AND COMPOUNDS. NOV 25 2015, vol. 650, p. 533-536., WOS
2. [1.1] SINGH, S.P. - LIU, Y. - NGOO, Y.J. - KYAW, L.M. - BERA, M.K. - DOLMANAN, S.B. - TRIPATHY, S. - CHOR, E.F. In JOURNAL OF PHYSICS D-APPLIED PHYSICS. SEP 16 2015, vol. 48, no. 36., WOS

ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

ADDA01 MESÁROŠOVÁ, Monika - ČIAMPOR, Fedor - ZÁVIŠOVÁ, Vlasta - KONERACKÁ, Martina - URSÍNYOVÁ, M. - KOZICS, Katarína - TOMAŠOVIČOVÁ, Natália - HASHIM, Anežka - VÁVRA, Ivo - KRIŽANOVÁ, Zuzana - HUSEKOVA, Z. - KUBOVČÍKOVÁ, Martina - KOPČANSKÝ, Peter - TIMKO, Milan - GÁBELOVÁ, Alena. The intensity of internalization and cytotoxicity of superparamagnetic iron oxide nanoparticles with different surface modifications in human tumor and diploid lung cells. In Neoplasma, 2012, vol. 59, no. 5, p. 584-597. (1.440 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 0028-2685.

Citácie:

1. [2.1] Dissanayake, NM (Dissanayake, Niluka M.) [1] ; Current, KM (Current, Kelley M.) [1] ; Obare, SO Mutagenic Effects of Iron Oxide Nanoparticles on Biological Cells INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 16 Issue: 10 Pages: 23482-23516, 2015, WOS
2. [2.1] Yang, F (Yang, Fang) [1] ; Li, MX (Li, Mingxi) [1] ; Cui, HT (Cui, Huating) [1] ; Wang, TT (Wang, Tuantuan) [1] ; Chen, ZW (Chen, Zhongwen) [2] ; Song, LN (Song, Lina) [1] ; Gu, ZX (Gu, Zhuxiao) [3] ; Zhang, Y (Zhang, Yu) [1] ; Gu, N Altering the response of intracellular reactive oxygen to magnetic nanoparticles using ultrasound and microbubbles SCIENCE CHINA-MATERIALS Volume: 58 Issue: 6 Pages: 467-480, 2015, WOS

ADDA02 TAKÁCS, Silvester. The flux line lattice in superconducting slabs. In Czechoslovak journal of physics, 1983, vol. 33, p. 1248. ISSN 0011-4626.

Citácie:

1. [1.1] PIGALSKIY, K.S. In JETP LETTERS. FEB 2015, vol. 101, no. 3, p. 168-172., WOS

*ADE Vedecké práce v ostatných zahraničných časopisoch

ADE01 LALINSKÝ, Tibor - HAŠČÍK, Štefan - MOZOLOVÁ, Želmíra - KUZMÍK, Ján - HATZOPOULOS, Z. GaAs power sensor microsystem technology and characterization. In Sensors and Materials, 1998, vol. 10, p. 241-250.

Citácie:

1. [1.1] WANG, D.B. - FANG, Y.M. In 2015 TRANSDUCERS - 2015 18TH INTERNATIONAL

CONFERENCE ON SOLID-STATE SENSORS, ACTUATORS AND MICROSYSTEMS (TRANSDUCERS). 2015, p. 1179-1182., WOS
 2. [1.1] WANG, D.B. - GAO, B. - ZHAO, J. - ZHANG, Y. - GUO, Y.Y. In *CHINESE JOURNAL OF ELECTRONICS. OCT 2015, vol. 24, no. 4, p. 884-888., WOS*

ADEA Vedecké práce v ostatných zahraničných časopisoch – impaktovaných

- ADEA01 FRÖHLICH, Karol - ŠOUC, Ján - MACHAJDÍK, Daniel - KOBZEV, A.P. - WEISS, F. - SENATEUR, J.P. - DAHMEN, K.H. Properties of thin epitaxial aerosol MOCVD CeO₂ films grown on (1102) sapphire. In *Journal de Physique IV*, 1995, vol. 5, p. 533. (0.115 - IF1994). (1995 - Current Contents). ISSN 1155-4339.
 Citácie:
 1. [1.1] EVANS, Meghan - DI MAGGIO, Francesco - BLACKMAN, Chris - SANKAR, Gopinathan. In *PHYSICA STATUS SOLIDI C: CURRENT TOPICS IN SOLID STATE PHYSICS, VOL 12, NO 7. 2015, vol. 12, no. 7, p. 996-1000., WOS*

ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

- ADEB01 ČIČO, Karol - GREGUŠOVÁ, Dagmar - GAŽL, Štefan - ŠOLTÝS, Ján - KUZMÍK, Ján - CARLIN, J.-F. - GRANDJEAN, N. - POGANY, D. - FRÖHLICH, Karol. Optimization of the ohmic contact processing in InAlN/GaN high electron mobility transistors for lower temperature of annealing. In *Physica Status Solidi C*, 2010, vol. 7, p. 108-111. (2010 - INSPEC, SCOPUS). ISSN 1862-6351.
 Citácie:
 1. [1.1] BERGSTEN, J. - MALMROS, A. - TORDJMAN, M. - GAMARRA, P. - LACAM, C. - DI FORTE-POISSON, M.A. - RORSMAN, N. In *SEMICONDUCTOR SCIENCE AND TECHNOLOGY. OCT 2015, vol. 30, no. 10., WOS*
- ADEB02 FRÖHLICH, Karol - HUDEEC, Boris - HUŠEKOVÁ, Kristína - AARIK, J. - TARRE, A. - KASIKOV, A. - RAMMULA, R. - VINCZE, A. Low equivalent oxide thickness TiO₂ based capacitors for DRAM applications. In *ECS Transactions*, 2011, vol. 41, no. 2, p. 73-77. (2011 - WOS). ISSN 1938-5862.
 Citácie:
 1. [1.1] YOO, W.S. - KIM, B.G. - JIN, S.W. - ISHIGAKI, T. - KANG, K. In *ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY. 2015, vol. 4, no. 7, p. N76-N82., WOS*
- ADEB03 GÖMÖRY, Fedor - ŠOUC, Ján - SEILER, Eugen - VOJENČIAK, Michal - GRANADOS, X. Modification of critical current in HTSC tape conductors by a ferromagnetic layer. In *Journal of Physics: Conference Series*, 2008, vol. 97, art. no. 012096. (2008 - WOS, SCOPUS). ISSN 1742-6588.
 Citácie:
 1. [1.2] Krüger, P. *Optimisation of Hysteretic Losses in High-Temperature Superconducting Wires. PhD Thesis Karlsruhe: KIT Scientific Publishing, 2014. ISBN 978 3 73150 185 5 pp. 1-218, SCOPUS*
- ADEB04 HANIC, František - PLESCH, G. - JERGEL, Milan - ŠTRBÍK, Vladimír - ŠMATKO, Vasilij - ADAM, Roman. Doping of Bi-Sr-Ca-Cu-O superconductors with Pb, Sn and Ag. In *Bulletin of Materials Science*, 1991, vol. 14, p. 309-314.
 Citácie:
 1. [1.1] BOUAICHA, F. - MOSBAH, M.F. - YILDIZ, F. - KOCBAY, A.N. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY. OCT 2015, vol. 25, no. 5., WOS*
- ADEB05 HUDEEC, Boris - HUŠEKOVÁ, Kristína - DOBROČKA, Edmund - LALINSKÝ, Tibor - AARIK, J. - AIDLA, A. - FRÖHLICH, Karol. High-permittivity metal-insulator-metal capacitors with TiO₂ rutile dielectric and RuO₂ bottom electrode. In *Institute of Physics Conference Series : Materials Science and Engineering*, 2010, vol. 8, 012024. (2010 - SCOPUS). ISSN 1757-8981.
 Citácie:
 1. [1.1] CHOI, S.J. - HAN, C.H. - YANG, H.H. - CHOI, D.H. - YOON, J.B. In *JOURNAL OF MICROELECTROMECHANICAL SYSTEMS. AUG 2015, vol. 24, no. 4, p. 1006-1015., WOS*
- ADEB06 HURAN, Jozef - HOTOVÝ, I. - BALALYKIN, N.I. - STARIKOV, A.M. Physical and bonding characteristics of N-doped hydrogenated amorphous silicon carbide films grown by PECVD and annealed by pulsed electron beam. In *Journal of Physics: Conference Series*, 2007, vol. 61, p. 430-431. ISSN 1742-6588.
 Citácie:
 1. [1.1] KAMAKSHI, K. - SEKHAR, K.C. - ALMEIDA, A. - MOREIRA, J.A. - GOMES, M.J.M. In *PLASMONICS. OCT 2015, vol. 10, no. 5, p. 1211-1217., WOS*
- ADEB07 HUŠEKOVÁ, Kristína - JURKOVIČ, M. - ČIČO, Karol - MACHAJDÍK, Daniel - DOBROČKA, Edmund - LUPTÁK, Roman - MACKOVÁ, A. - FRÖHLICH, Karol. Preparation of high permittivity

GdScO₃ films by liquid injection MOCVD. In ECS Transactions, 2009, vol. 25, p. 1061-1064. (2009 - WOS). ISSN 1938-5862.

Citácie:

1. [1.1] FEIJOO, P.C. - PAMPILLON, M.A. - ANDRES, E.S. - FIERRO, J.L.G. In *THIN SOLID FILMS*. OCT 30 2015, vol. 593, p. 62-66., WOS

2. [1.1] SCHAFFER, A. - RAHMANIZADEH, K. - BIHLMAYER, G. - LUYSBERG, M. - WENDT, F. - BESMEHN, A. - FOX, A. - SCHNEE, M. - NIU, G. - SCHROEDER, T. - MANTL, S. - HARDTDEGEN, H. - MIKULICS, M. - SCHUBERT, J. In *JOURNAL OF ALLOYS AND COMPOUNDS*. DEC 5 2015, vol. 651, p. 514-520., WOS

ADEB08

KUZMÍK, Ján - POZZOVIVO, G. - CARLIN, J.-F. - GONSCHOREK, M. - FELTIN, E. - GRANDJEAN, N. - STRASSER, G. - POGANY, D. - GORNIK, E. Off-state breakdown in InAlN/GaN HEMTs. In *Physica Status Solidi (C) : current topics in solid state physics*, 2009, vol. 6, p. S925-S928. (2009 - INSPEC, SCOPUS). ISSN 1862-6351.

Citácie:

1. [1.1] LEE, K.B. - GUINEY, I. - JIANG, S. - ZAIDI, Z.H. - QIAN, H.T. - WALLIS, D.J. - UREN, M.J. - KUBALL, M. - HUMPHREYS, C.J. - HOUSTON, P.A. In *APPLIED PHYSICS EXPRESS*. MAR 2015, vol. 8, no. 3., WOS

2. [1.1] MIYOSHI, M. - FUJITA, S. - EGAWA, T. In *APPLIED PHYSICS EXPRESS*. FEB 2015, vol. 8, no. 2., WOS

ADEB09

KUZMÍK, Ján - BYCHIKHIN, S. - PICHONAT, E. - GAQUIRE, Ch. - MORWAN, E. - KOHN, E. - TEYSSIER, J.-P. - POGANY, D. Self-heating phenomena in high-power III-N transistors and new thermal characterization methods developed within EU project TARGET. In *International Journal of Microwave and Wireless Technologies*, 2009, vol. 1, p. 153-160. ISSN 1759-0787.

Citácie:

1. [1.1] RAFI-UL-ISLAM, S.M. - SUBRINA, S. In *2015 2ND INTERNATIONAL CONFERENCE ON ELECTRICAL INFORMATION AND COMMUNICATION TECHNOLOGY (EICT)*. 2015, p. 441-445., WOS

2. [1.1] RENTERIA, J. - LEGEDZA, S. - SALGADO, R. - BALANDIN, M.P. - RAMIREZ, S. - SAADAH, M. - KARGAR, F. - BALANDIN, A.A. In *MATERIALS & DESIGN*. DEC 25 2015, vol. 88, p. 214-221., WOS

3. [1.1] SCHLEE, J. - MATEOS, J. - INIGUEZ-DE-LA-TORRE, I. - WADEFALK, N. - NILSSON, P.A. - GRAHN, J. - MINNICH, A.J. In *NATURE MATERIALS*. FEB 2015, vol. 14, no. 2, p. 187-192., WOS

ADEB10

LALINSKÝ, Tibor - RÝGER, Ivan - VANKO, Gabriel - TOMÁŠKA, M. - KOSTIČ, Ivan - HAŠČÍK, Štefan - VALLO, Martin. AlGaIn/GaN based SAW-HEMT structures for chemical gas sensors. In *Procedia Engineering : Proc. Eurosensors XXIV*, 2010, vol. 5, p. 152-155. (2010 - SCOPUS). ISSN 1877-7058.

Citácie:

1. [1.1] GUO, Yahui - WANG, Xiongtao - MIAO, Bin - LI, Ying - YAO, Weirong - XIE, Yunfei - LI, Jiadong - WU, Dongmin - PEI, Renjun. An AuNPs-functionalized AlGaIn/GaN high electron mobility transistor sensor for ultrasensitive detection of TNT. In *RSC ADVANCES*. ISSN 2046-2069, 2015, vol. 5, no. 120, pp. 98724-98729., WOS

2. [1.2] CALIENDO, Cinzia - LO CASTRO, Fabio. Advanced bulk and thin film materials for harsh environment MEMS applications. In *Anti-Abrasive Nanocoatings: Current and Future Applications*, 2014-12-18, pp. 430-453., SCOPUS

ADEB11

NURGALIEV, T. - MATEEV, E. - BLAGOEV, B. - MITEVA, S. - NESHKOV, L. - ŠTRBÍK, Vladimír - USPENSKAYA, L. - BENÁČKA, Štefan - CHROMIK, Štefan - NEDKOV, I. YBCO and LSMO nano-films and sandwiches prepared by magnetron sputtering. In *Journal of Physics: Conference Series*, 2010, vol. 234, art. no. 012029. (2010 - WOS, SCOPUS). ISSN 1742-6588.

Citácie:

1. [1.1] JOSEPH, D.P. - LIN, J.G. In *PROCEEDINGS OF THE 59TH DAE SOLID STATE PHYSICS SYMPOSIUM 2014 (SOLID STATE PHYSICS)*. 2015, vol. 1665., WOS

ADEB12

POZZOVIVO, G. - KUZMÍK, Ján - GIESEN, C. - HEUKEN, M. - LIDAY, J. - STRASSER, G. - POGANY, D. Low resistance ohmic contacts annealed at 600 °C on a InAlN/GaN heterostructure with SiCl₄-reactive ion etching surface treatment. In *Physica Status Solidi (C) : current topics in solid state physics*, 2009, vol. 6, p. S999-S1002. (2009 - INSPEC, SCOPUS). ISSN 1862-6351.

Citácie:

1. [1.1] ARULKUMARAN, S. - NG, G.I. - RANJAN, K. - KUMAR, C.M.M. - FOO, S.C. - ANG, K.S. - VICKNESH, S. - BIN DOLMANAN, S. - BHAT, T. - TRIPATHY, S. In *JAPANESE JOURNAL OF APPLIED PHYSICS*. APR 2015, vol. 54, no. 4, SI., WOS

2. [1.1] WATANABE, A. - FREEDSMAN, J.J. - URAYAMA, Y. - CHRISTY, D. - EGAWA, T. In *JOURNAL OF APPLIED PHYSICS*. DEC 21 2015, vol. 118, no. 23., WOS

ADFA Vedecké práce v ostatných domácich časopisoch – impaktovaných

- ADFA01 CAMBEL, Vladimír - GREGUŠOVÁ, Dagmar - ELIÁŠ, Peter - FEDOR, Ján - KOSTIČ, Ivan - MAŇKA, Ján - BALLO, P. Switching magnetization magnetic force microscopy – an alternative to conventional lift-mode MFM. In Journal of Electrical Engineering, 2011, vol. 62, p. 37-43. (0.278 - IF2010). (2011 - INSPEC, SCOPUS). ISSN 1335-3632.
Citácie:
1. [3.2] HILSE, M. *Ferromagnet-Halbleiter-Nanodrahtstrukturen. PhD Thesis, Humboldt-Universität zu Berlin, Mathematisch-Naturwissenschaftliche Fakultät I. 2015, 198 p., Google Scholar*
- ADFA02 FRÖHLICH, Karol - FEDOR, Ján - KOSTIČ, Ivan - MAŇKA, Ján - BALLO, P. Gadolinium scandate: next candidate for alternative gate dielectric in CMOS technology? In Journal of Electrical Engineering, 2011, vol. 62, p. 54-56. (0.278 - IF2010). (2011 - INSPEC, SCOPUS). ISSN 1335-3632.
Citácie:
1. [1.1] MCDANIEL, Martin D. - NGO, Thong Q. - HU, Shen - POSADAS, Agham - DEMKOV, Alexander A. - EKERDT, John G. *Atomic layer deposition of perovskite oxides and their epitaxial integration with Si, Ge, and other semiconductors. In APPLIED PHYSICS REVIEWS. ISSN 1931-9401, 2015, vol. 2, no. 4, pp., WOS*
2. [3.2] McDANIEL, M. D. *Monolithic integration of crystalline oxides on silicon and germanium using atomic layer deposition. PhD Thesis, University of Texas at Austin. 2015, 175 p., Google Scholar*
- ADFA03 HOTOVÝ, I. - KOSTIČ, Ivan - HAŠČÍK, Štefan - ŘEHÁČEK, V. - LIDAY, J. - SITTER, H. Development and fabrication of TiO₂ tip arrays for gas sensing. In Journal of Electrical Engineering, 2011, vol. 62, p. 363-366. (0.278 - IF2010). (2011 - INSPEC, SCOPUS). ISSN 1335-3632.
Citácie:
1. [1.1] ADZHRI, R. - ARSHAD, M.K.M. - FATHIL, M.F.M. - HASHIM, U. - RUSLINDA, A.R. - AYUB, R.M. - GOPINATH, S.C.B. - VOON, C.H. - FOO, K.L. - NUZAIHAN, M. - AZMAN, A.H. - ZAKI, M. *Reactive Ion Etching of TiO₂ Thin Film: The Impact of Different Gaseous. In 2015 IEEE REGIONAL SYMPOSIUM ON MICRO AND NANOELECTRONICS (RSM). 2015, p. 196-199., WOS*

ADFB Vedecké práce v ostatných domácich časopisoch – neimpaktovaných

- ADFB01 CESNAK, Ladislav - KABÁT, Dušan. Výpočet magnetického poľa valcových cievok s nerovnakou prúdovou hustotou. In Elektrotechnický obzor, 1970, roč. 59, p. 338-342.
Citácie:
1. [1.1] PITEL, J. - KOVAC, P. - TROPEANO, M. - GRASSO, G. *In SUPERCONDUCTOR SCIENCE & TECHNOLOGY. MAY 2015, vol. 28, no. 5., WOS*
- ADFB02 LUBY, Štefan - ČERVENÁK, Ján - KUBEK, Jozef - MARCIN, M. - SCHILDER, Jaroslav. Switching phenomena in amorphous thin films of Ge, DcxTey and SbxGey. In Czechoslovak journal of physics, 1971, vol. 21, p. 878. ISSN 0011-4626.
Citácie:
1. [1.1] WRENN, T.L. - MCBRIDE, J.R. - MARES, J.W. - ROSENTHAL, S.J. *In CHEMISTRY OF MATERIALS. JUN 9 2015, vol. 27, no. 11, p. 3817-3820., WOS*
- ADFB03 PUDIŠ, D. - ŠKRINIAROVÁ, J. - MARTINČEK, I. - KOVÁČ, Jaroslav - TARJÁNYI, N. - HAŠČÍK, Štefan. Periodic structures patterned on metal and III-V compound surfaces using two-beam interference method. In Journal of Electrical Engineering, 2009, vol. 60, p. 166-169. (2009 - INSPEC, SCOPUS). ISSN 1335-3632.
Citácie:
1. [1.1] CERNECKY, J. - BOZEK, P. - PIVARCIOVA, E. *In JOURNAL OF ELECTRICAL ENGINEERING-ELEKTROTECHNICKY CASOPIS. 2015, vol. 66, no. 1, p. 53-56., WOS*

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

- ADMB01 KORYTÁR, Dušan - VAGOVIČ, Patrik - FERRARI, C. - ŠIFFALOVÍČ, Peter - JERGEL, Matej - DOBROČKA, Edmund - ZÁPRAŽNÝ, Zdenko - ÁČ, V. - MIKULÍK, P. Process- induced inhomogeneities in higher asymmetry angle x-ray monochromators. In Proceedings of SPIE, 2013, vol. 8848, 88480U. (2013 - SCOPUS).
Citácie:
1. [1.1] CUSATIS, Cesar. *Large field of view X-ray microscopy with asymmetric bent crystals and a laboratory source. In JOURNAL OF APPLIED CRYSTALLOGRAPHY. JUN 2015, vol. 48, 3, p. 876-881., WOS*

- ADMB02 KUTIŠ, V. - DZUBA, Jaroslav - PAULECH, J. - MURÍN, Justín - LALINSKÝ, Tibor. MEMS piezoelectric pressure sensor-modelling and simulation. In *Procedia Engineering*, 2012, vol. 48, p. 338-345. (2012 - SCOPUS, WOS). ISSN 1877-7058.
Citácie:
1. [1.1] MOZHDEHI, R.J. - GHAFAARI, A.S. - KHAYYAT, A.A.A. In *MECHANICS & INDUSTRY*. 2015, vol. 16, no. 3., WOS
- ADMB03 NAST, R. - VOJENČIAK, Michal - DEMENČÍK, Eduard - KARIO, A. - RINGSDORF, B. - JUNG, A. - RUNTSCH, B. - GRILLI, F. - GOLDACKER, W. Influence of laser striations on the properties of coated conductors. In *Journal of Physics: Conference Series*, 2014, vol. 507, 022023. (2014 - WOS, SCOPUS). ISSN 1742-6588.
Citácie:
1. [1.1] HOPKINS, S.C. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. SEP 2015, vol. 28, no. 9., WOS
2. [1.1] WULFF, A.C. - SOLOVYOV, M. - GOMORY, F. - ABRAHAMSEN, A.B. - MISHIN, O.V. - USOSKIN, A. - RUTT, A. - LUNDEMAN, J.H. - THYDEN, K. - HANSEN, J.B. - GRIVEL, J.C. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. JUL 2015, vol. 28, no. 7., WOS
- ADMB04 PALANKOVSKI, V. - DONNARUMMA, G. - KUZMÍK, Ján. Degradation study of single and double-heterojunction InAlN/GaN HEMTs by two-dimensional simulation. In *ECS Transactions*, 2012, vol. 50, p. 223-228. (2012 - WOS). ISSN 1938-5862.
Citácie:
1. [1.1] HE, Y.L. - LI, P.X. - WANG, C. - LI, X.D. - ZHAO, S.L. - MI, M.H. - PEI, J.Q. - ZHANG, J.C. - MA, X.H. - HAO, Y. In *APPLIED PHYSICS LETTERS*. AUG 10 2015, vol. 107, no. 6., WOS
- ADMB05 PALANKOVSKI, V. - KUZMÍK, Ján. Promising new n++-GaN/InAlN/GaN HEMT concept for high-frequency applications. In *ECS Transactions*, 2012, vol. 50, p. 291-296. (2012 - WOS). ISSN 1938-5862.
Citácie:
1. [1.1] BHATTACHARJEE, A. - LENKA, T.R. In *2014 INTERNATIONAL CONFERENCE ON ELECTRONICS AND COMMUNICATION SYSTEMS (ICECS)*. 2014., WOS
- ADMB06 SANZ, S. - ARLABAN, T. - MANZANAS, R. - TROPEANO, M - FUNKE, R. - KOVÁČ, Pavol - YANG, Y. - NEUMANN, H. - MONDESERT, B. Superconducting light generator for large offshore wind turbines. In *Journal of Physics: Conference Series*, 2014, vol. 507, 032040. (2014 - WOS, SCOPUS). ISSN 1742-6588.
Citácie:
1. [1.1] BATANI, A. - ERDEM, E. - REPP, S. - ACAR, S. - KOKAL, I. - HASSLER, W. - WEBER, S. - SOMER, M. In *JOURNAL OF APPLIED PHYSICS*. APR 21 2015, vol. 117, no. 15., WOS
2. [1.1] KEYSAN, O. - MUELLER, M. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*. MAR 2015, vol. 28, no. 3., WOS
- ADMB07 SOLOVYOV, Mykola - ŠOUC, Ján - GÖMÖRY, Fedor. Investigation of superconductor uniformity in CC tapes by magnetic field mapping. In *Physics Procedia*, 2012, vol. 36, p. 617-622. (2012 - SCOPUS). ISSN 1875-3892.
Citácie:
1. [1.1] FETISOV, S.S. - SOTNIKOV, D.V. - ZANEGIN, S.Y. - BYKOVSKY, N.V. - RADCHENKO, I.P. - ZUBKO, V.V. - VYSOTSKY, V.S. In *PROCEEDINGS OF THE 25TH INTERNATIONAL CRYOGENIC ENGINEERING CONFERENCE AND INTERNATIONAL CRYOGENIC MATERIALS CONFERENCE 2014*. 2015, vol. 67, p. 931-938., WOS
- ADMB08 TVAROŽEK, V. - NOVOTNÝ, I. - ŠUTTA, P. - NETRVALOVÁ, M. - VÁVRA, Ivo - BRUNCKO, J. - GAŠPIERIK, P. - FLICKYNGEROVÁ, S. Oblique angle sputtering of ZnO: Ga thin films. In *Physics Procedia*, 2012, vol. 32, p. 456-463. (2012 - SCOPUS). ISSN 1875-3892.
Citácie:
1. [1.1] YANG, Z.P. - XIE, Z.H. - LIN, C.C. - LEE, Y.J. In *OPTICAL MATERIALS EXPRESS*. FEB 1 2015, vol. 5, no. 2, p. 399-407., WOS

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

- ADNA01 HURAN, Jozef - VALOVIČ, Albín - KUČERA, Michal - KLEINOVÁ, Angela - KOVÁČOVÁ, Eva - BOHÁČEK, Pavol - SEKÁČOVÁ, Mária. Hydrogenated amorphous silicon carbon nitride films prepared by PECVD technology: properties. In *Journal of Electrical Engineering*, 2012, vol. 65, p. 333-335. (0.370 - IF2011). (2012 - INSPEC, SCOPUS). ISSN 1335-3632.
Citácie:
1. [1.1] FAINER, N.I. - KOSYAKOV, V.I. In *JOURNAL OF STRUCTURAL CHEMISTRY*. JAN 2015, vol. 56, no. 1, p. 163-174., WOS
2. [1.1] FAINER, N.I. - PLEKHANOV, A.G. - GOLUBENKO, A.N. - RUMYANTSEV, Y.M. -

RAKHLIN, V.I. - MAXIMOVSKI, E.A. - SHAYAPOV, V.R. In ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY. 2015, vol. 4, no. 1, SI, p. N3153-N3163., WOS
3. [1.1] HAACKE, M. - COUSTEL, R. - ROUESSAC, V. - DROBEK, M. - ROUALDES, S. - JULBE, A. In EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS. JUL 2015, vol. 224, no. 9, p. 1935-1943., WOS

***AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách**

- AEC01 FRÖHLICH, Karol - HUŠEKOVÁ, Kristína - MACHAJDÍK, Daniel - LUPTÁK, Roman - ĎAPAJNA, Milan - HOOKER, J.C. Growth and properties of ruthenium based metal gates for pMOS devices. In ASDAM 2004 : conference proceeding of the Fifth International Conference on Advanced Semiconductor Devices and Microsystems. Smolenice Castle, Slovakia October 17-21, 2004. - Piscataway : IEEE, 2004, s. 193-166. ISBN 0-7803-8535-7.
 Citácie:
1. [1.1] ZHANG, H.X. - ZHANG, C.M. - WANG, P.F. In 2015 China Semiconductor Technology International Conference. 2015., WOS
- AEC02 HUDEC, Boris - HRANAI, M. - HUŠEKOVÁ, Kristína - AARIK, J. - TARRE, A. - FRÖHLICH, Karol. Resistive switching in RuO₂/TiO₂/RuO₂ MIM structures for non-volatile memory application. In ASDAM 2010 : proceedings of the 8th International Conference on Advanced Semiconductor Devices and Microsystems. Eds. J. Breza, D. Donoval and E. Vavrinský. - Piscataway : IEEE, 2010, p. 255-258. ISBN 978-1-4244-8572-7.
 Citácie:
1. [1.1] CASTAN, H. - GARCIA, H. - DUENAS, S. - BAILON, L. - MIRANDA, E. - KUKLI, K. - KEMELL, M. - RITALA, M. - LESKELA, M. In THIN SOLID FILMS. SEP 30 2015, vol. 591, A, p. 55-59., WOS
2. [1.1] HO, P.W.C. - HATEM, F.O. - ALMURIB, H.A.F. - KUMAR, T.N. In 2014 2ND INTERNATIONAL CONFERENCE ON ELECTRONIC DESIGN (ICED). 2014, p. 249-254., WOS
- AEC03 SRNÁNEK, R. - KOVÁČ, Ján - JAKABOVIČ, J. - KOVÁČ, Ján - IRMER, G. - DOBROČKA, Edmund - HAŠKO, D. Characterization of organic field effect transistor structures by micro-Raman. In ASDAM 2008 : conference proceedings. Editors Štefan Haščík, Jozef Osvald. - Piscataway, NJ : Institute of Electrical and Electronics Engineers, 2008, p. 255-258. ISBN 978-1-4244-2325-5.
 Citácie:
1. [1.1] KABIR, D.L. - MEJIA, I. - PEREZ, M.R. - RAMOS-HERNANDEZ, J.C. - QUEVEDO-LOPEZ, M.A. In JOURNAL OF ELECTRONIC MATERIALS. JAN 2015, vol. 44, no. 1, p. 490-496., WOS
- AEC04 STUHLÍKOVÁ, E. - ŠEBOK, J. - RYBÁR, J. - PETRUS, M. - NEMEC, M. - HARMATHA, L. - BENKOVSKÁ, J. - KOVÁČ, Ján - ŠKRINIAROVÁ, J. - LALINSKÝ, Tibor - PASKIEWICZ, R. - TLACZALA, M. Investigation of deep energy levels in heterostructures based on GaN by DLTS. In ASDAM 2010 : proceedings of the 8th International Conference on Advanced Semiconductor Devices and Microsystems. Eds. J. Breza, D. Donoval and E. Vavrinský. - Piscataway : IEEE, 2010, p. 135-138. ISBN 978-1-4244-8572-7.
 Citácie:
1. [1.1] ANAND, M.J. - NG, G.I. - ARULKUMARAN, S. - SYAMAL, B. - ZHOU, X. In APPLIED PHYSICS EXPRESS. OCT 2015, vol. 8, no. 10., WOS
2. [1.1] DIVAY, A. - MASMOUDI, M. - LATRY, O. - DUPERRIER, C. - TEMCAMANI, F. In MICROELECTRONICS RELIABILITY. AUG-SEP 2015, vol. 55, no. 9-10, p. 1703-1707., WOS
3. [1.1] GOSWAMI, Arunesh - TREW, Robert J. - BILBRO, Griff L. In IEEE TRANSACTIONS ON ELECTRON DEVICES. APR 2014, vol. 61, no. 4, p. 1014-1021., WOS

AECA Vedecké práce v zahraničných recenzovaných zborníkoch a kratšie kapitoly/state v zahraničných vedeckých monografiách alebo VŠ učebniciach

- AECA01 KUČERA, Michal - NOVÁK, Jozef. Photoluminescence characterization of Bismuth doped GaSb. In BREZA, J. - DONOVAL, D. ASDAM 2002 : 4th International Conference on Advanced Semiconductor Devices and Applications. - Piscataway : IEEE, 2002, p. 149. ISBN 0-7803-7276-X.
 Citácie:
1. [1.1] FANG, D. - FANG, X. - LI, Y.F. - YAO, B. - ZHAO, H.F. - WEI, Z.P. - TANG, J.L. - DU, C. - LI, J.H. - MA, X.H. - WANG, D.D. - YAN, Y.S. In NANOSCIENCE AND NANOTECHNOLOGY LETTERS. FEB 2015, vol. 7, no. 2, p. 117-120., WOS
- AECA02 TENGERI, A.D. - PULLMANNOVÁ, A. - HOTOVÝ, I. - ŘEHÁČEK, V. - HAŠČÍK, Štefan - LALINSKÝ, Tibor. Preparation and properties of micro-hotplates for gas sensors based on GaAs. In ASDAM 2008 : conference proceedings. - Piscataway, NJ : Institute of Electrical and Electronics Engineers, 2008, p. 323-326. ISBN 978-1-4244-2325-5.

Citácie:

1. [1.1] SAXENA, G. - PAILY, R. In *MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS. NOV 2015, vol. 21, no. 11, p. 2331-2338., WOS*

***AEE Vedecké práce v zahraničných nerecenzovaných vedeckých zborníkoch, monografiách**

AEE01 RUFER, L. - TORRES, A. - MIR, S. - ALAM, M.O. - LALINSKÝ, Tibor - CHAN, Y.C. SAW chemical sensors based on AlGaIn/GaN piezoelectric material system: acoustic design and packaging considerations. In 2005 International Conference on Electronics Materials and Packaging : EMAP 2005. - Tokyo : Tokyo Inst. of Technology, 2005, p. 204-208.

Citácie:

1. [1.1] LIASHUK, A.N. - ZAVYALOV, S.A. - LEPETAEV, A.N. - KOSYKH, A.V. - KHOMENKO, I.V. In *2015 JOINT CONFERENCE OF THE IEEE INTERNATIONAL FREQUENCY CONTROL SYMPOSIUM & THE EUROPEAN FREQUENCY AND TIME FORUM (FCS). 2015, p. 439-442., WOS*

***AEF Vedecké práce v domácich nerecenzovaných vedeckých zborníkoch, monografiách**

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.

Citácie:

1. [1.1] KIM, K.L. - CHOI, Y.H. - YANG, D.G. - KANG, D.H. - KIM, J.H. - KIM, H.M. - LEE, H.G. In *CURRENT APPLIED PHYSICS. JAN 2015, vol. 15, no. 1, p. 8-13., WOS*

AFC Publikované príspevky na zahraničných vedeckých konferenciách

AFC01 OSVALD, Jozef. Interface traps in insulator/AlGaIn/GaN heterostructure capacitors. In *ASDAM 2012 : conference proceedings*. Eds. Š. Haščík, J. Osvald. - Piscataway : IEEE, 2012, p. 59-62. ISBN 978-1-4673-1195-3.

Citácie:

1. [1.1] MA, X.H. - LIU, Y. - WANG, X.H. - HUANG, S. - GAO, Z. - BAO, Q.L. - LIU, X.Y. In *PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE. DEC 2015, vol. 212, no. 12, p. 2928-2935., WOS*

AFC02 ZÁVIŠOVÁ, Vlasta - TOMAŠOVIČOVÁ, Natália - KOVÁČ, Jozef - KONERACKÁ, Martina - KOPČANSKÝ, Peter - VÁVRA, Ivo. Synthesis and characterisation of rod-like magnetic nanoparticles. In *NANOCON 2010: 2nd international conference, October 12th - 14th 2010, Olomouc, Czech Republic : conference proceedings*. - Ostrava : TANGER Ltd., 2010, s. 330-335. ISBN 978-80-87294-19-2.(NANOCON 2010 : International Conference).

Citácie:

1. [1.1] NAIR, K.K. - KAUR, R. - IQBAL, N. - HASAN, A. - ALAM, S. - RAZA, S.K. In *MATERIALS RESEARCH EXPRESS. APR 2015, vol. 2, no. 4., WOS*

AFD Publikované príspevky na domácich vedeckých konferenciách

AFD01 SEDLAČKOVÁ, K. - ZAŤKO, Bohumír - ŠAGÁTOVÁ, A. - NEČAS, V. Properties of SiC semiconductor detector of fast neutrons investigated using MCNPX code. In *Proceedings of the 19th International Conference on Applied Physics of Condensed Matter : APCOM 2013*. Eds. J.Vajda, I.Jamnický. - Bratislava : Nakladateľstvo STU Bratislava, 2013, p. 62-65. ISBN 978-80-227-3956-6.

Citácie:

1. [1.1] TAN, K.S. - WONG, Y.H. - CHEONG, K.Y. In *INTERNATIONAL JOURNAL OF THERMAL SCIENCES. JAN 2015, vol. 87, p. 169-177., WOS*

AFG Abstrakty príspevkov zo zahraničných konferencií

AFG01 MITRÓOVÁ, Zuzana - TOMAŠOVIČOVÁ, Natália - LANCZ, Gábor - KOVÁČ, Jozef - VÁVRA, Ivo - KOPČANSKÝ, Peter. Preparation and characterization of carbon nanotubes functionalized by magnetite nanoparticles. In *NANOCON 2010: 2nd international conference, October 12th - 14th 2010, Olomouc, Czech Republic : conference proceedings*. - Ostrava : TANGER Ltd., 2010, poster P44, p. 78. ISBN 978-80-87294-18-5.(NANOCON 2010 : International Conference).

Citácie:

1. [1.1] MUHSAN, A.S. - AHMAD, F. - MOHAMED, N.M. - RAZA, M.R. In *INTERNATIONAL*

- JOURNAL OF POWDER METALLURGY. WIN 2015, vol. 51, no. 1, p. 57-66., WOS*
2. [1.1] MUHSAN, A.S. - AHMAD, F. - MOHAMED, N.M. - YUSOFF, P.S.M.M. - RAZA, M.R. In *NANOSCIENCE AND NANOTECHNOLOGY LETTERS. OCT 2014, vol. 6, no. 10, p. 865-874., WOS*
3. [1.1] NGUYEN, P.H.N. In *ADVANCES IN NATURAL SCIENCES-NANOSCIENCE AND NANOTECHNOLOGY. MAR 2014, vol. 5, no. 1., 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: 12

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

doc. RNDr. Martin Moško, DrSc.

Názov semestr. predmetu: Mezoskopická fyzika a kvantová elektronika

Počet hodín za semester: 12

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

Ing. Gabriel Vanko, PhD.

Názov semestr. predmetu: MEMS Senzory v automobiloch

Počet hodín za semester: 7

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav elektroniky a fotoniky

Semestrálne cvičenia:

Ing. Gabriel Vanko, PhD.

Názov semestr. predmetu: MEMS Senzory v automobiloch

Počet hodín za semester: 7

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav elektroniky a fotoniky

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					Karol Fröhlich	4
					Fedor Gömöry	3
Bulharsko	Vladimír Štrbík	7				
Česko	Bohumír Zatl'ko	3			Oleg Babchenko	5
					Oleg Babchenko	5
					Oleg Babchenko	5
					Oleg Babchenko	5
					Jaroslav Dzuba	3
					Jaroslav Dzuba	5
					Karol Fröhlich	1
					Dagmar Gregušová	4
					Stanislav Hasenöhr	5
					Michal Kučera	1
					Agáta Laurenčíková	4
					Alica Rosová	3
					Gabriel Vanko	5
					Gabriel Vanko	5
					Gabriel Vanko	3
					Ivo Vávra	1
					Bohumír Zatl'ko	6
Fínsko					Ján Kuzmík	3
Grécko					Ján Kuzmík	21
Izrael	Štefan Chromik	10				
Maďarsko					Peter Lobotka	5
					Michal Mruczkiewicz	2
Nemecko					Boris Brunner	5
					Karol Fröhlich	3
					Fedor Gömöry	2
					Fedor Gömöry	3

				Fedor Gömöry	3
				Fedor Gömöry	6
				Pavol Kováč	4
				Pavol Kováč	4
				Enric Pardo	1
				Enric Pardo	1
				Michal Vojenčiak	15
				Michal Vojenčiak	5
				Michal Vojenčiak	2
				Michal Vojenčiak	3
				Zdenko Zápražný	3
Poľsko	František Dubecký	5		Pavol Kováč	4
	Štefan Chromik	7		Michal Mruczkiewicz	15
				Michaela Sojková	5
Rakúsko				Jana Brndiarová	1
				Boris Brunner	1
				Boris Brunner	1
				Boris Brunner	1
				Boris Brunner	1
				Filip Guemann	1
				Pavol Kováč	2
				Ján Kuzmík	1
				Ján Kuzmík	1
				Ján Kuzmík	1
				Ján Kuzmík	1
				Milan Ťapajna	1
				Gabriel Vanko	1
Rusko				Jozef Huran	38
				Jozef Huran	46
				Daniel Machajdik	90
				Bohumír Zat'ko	10
Slovinsko				Štefan Chromik	4
				Marianna Španková	4
Španielsko				Pavol Kováč	4
Švajčiarsko				Jana Brndiarová	60
				Eugen Seiler	10
Taliansko	František	10		Fedor Gömöry	4

	Dubecký					
					Michal Vojenčiak	4
USA					Ján Fedor	16
					Fedor Gömöry	3
Veľká Británia					Fedor Gömöry	4
					Michal Mruczkiewicz	8
Počet vyslaní spolu	6	42			69	507

(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					Hospodková A.	4
					Hulicius E.	4
					Ižák T.	5
					Ižák T.	4
					Jirásek V.	3
					Kromka A.	5
					Vacula P.	4
					Ziková M.	4
Čína					Jie S.	300
Japonsko					Kodama K.	240
					Sato T.	4
Maďarsko	Misják F.	5			Cora I.	2
	Radnóczy G.	5			Pecs B.	2
					Toth L.	2
Nemecko					Haessler W.	3
Poľsko	Gierlowski P.	5			Adamovitz B.	4
	Zaytseva I.	5			Mruczkiewicz M.	365
					Zelent M.	30
Taliansko	Atolini G.	5				
Turecko					Terzioglu R.	240
Ukrajina					Brylavskiy J.	180
USA					Nagasaki Y.	195
Počet prijatí spolu	5	25			21	1540

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Česko	MS16	Ivo Vávra	2
	XTOP 2016	Dušan Korytár	4
		Zdenko Zápražný	4
		Bohumír Zařko	4
Francúzsko	IEEE NSS/MIC/RTSD	František Dubecký	7

India	ICTAM-AMF10	Jozef Huran	9	
Kanada	Graphene 2016	Martin Hulman	8	
		Michaela Sojková	8	
Kórejská republika	AFM 2016	Jozef Huran	9	
Maďarsko	EUROSENSORS 2016	Jaroslav Dzuba	4	
Mexiko	LDS 2016	Agáta Laurenčíková	8	
Nemecko	FINETECH	Jozef Novák	3	
		NHkAW	Karol Fröhlich	3
		WEHS	Milan Kapolka	4
Poľsko	ProBioTo2016	Zdenko Zápražný	4	
Portugalsko	WOCSDICE	Dagmar Gregušová	7	
		Ján Kuzmík	7	
Rakúsko	EUCHEM	Peter Lobotka	5	
		Martin Hulman	8	
	MANA 2016	Michal Mruczkiewicz	2	
		Jaroslav Tóvik	2	
	MNE 2016	Jaroslav Dzuba	5	
		Katarína Sečianska	5	
	Ján Šoltýs	5		
Slovinsko	JVC16	Jozef Novák	6	
		Ivo Vávra	6	
Španielsko	iWORID	Bohumír Zařko	6	
		Vladimír Cambel	5	
		Michal Mruczkiewicz	5	
		Jaroslav Tóvik	5	
Švajčiarsko	ISPMC	Ján Šoltýs	4	
Taliansko	WMod	Fedor Gömöry	4	
		Milan Kapolka	4	
		Enric Pardo	4	
	WODIM	Karol Fröhlich	5	
		Filip Gucmann	5	
		Milan Ľapajna	5	
Turecko	ICSM	Boris Brunner	7	
		Fedor Gömöry	7	
		Enric Pardo	7	
		Alica Rosová	7	
		Michal Vojenčiak	7	
USA	ASC 2016	Fedor Gömöry	9	
		Mykola Soloviov	9	
	CCA 2016	Fedor Gömöry	4	
	IWN 2016	Ján Kuzmík	9	
		Jozef Osvald	9	
		Milan Ľapajna	9	
		Gabriel Vanko	9	
Veľká Británia	ESA	Gabriel Vanko	2	
	JEMS 2016	Jaroslav Tóvik	6	
Spolu	29	51	292	

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

Skratky použité v tabuľke C:

AFM 2016 - International Conference on Advances in Functional Materials
ASC 2016 - Applied Superconductivity Conference
CCA 2016 - Coated Conductors for Applications
ESA - 8th Wide Bandgap Semiconductor and Components workshop
EUCHEM - 26th Conference on Molten Salts and Ionic Liquids
EUROSENSORS 2016 - EUROSENSORS 2016
FINETECH - FINETECH 2016
Graphene 2016 - Graphene & 2D Materials International Conference and Exhibition
ICSM - 5th International Conference on Superconductivity and Magnetism
ICTAM-AMF10 - International Conference on Technologically Advanced Materials and Asian Meeting on Ferroelectricity
IEEE NSS/MIC/RTSD - 23rd International Symposium on Room-Temperature Semiconductor Detectors
ISPMC - International Scanning Probe Microscopy Conference 2016
IWEPM - 30th International Winterschool on Electronic Properties of Novel Materials
IWN 2016 - International Workshop on Nitride Semiconductors
iWORID - 18th International Workshop on Radiation Imaging Detectors
JEMS 2016 - Joint European Magnetic Symposia
JVC16 - 16th Joint Vacuum Conference
LDS 2016 - 8th International Conference on Low Dimensional Structures and Devices
MANA 2016 - Micromagnetics: Analysis, Numerics, Applications
MNE 2016 - 42nd Micro- and NanoEngineering conference
MS16 - Mikroskopie 2016
NHkAW - Novel High k Application Workshop 2016
ProBioTo2016 - International Workshop on Process and Biomedical Tomography
Sol-SkyMag 2016 - International Conference on Magnetism and Spintronics
WEHS - 608. WE-Heraeus-Seminar - Superconducting materials on their way from physics to applications
WMod - 5th International Workshop on Numerical Modelling of High Temperature Superconductors
WOCSDICE - 40th Workshop on Compound Semiconductor Devices
WODIM - 19th Workshop on Dielectrics in Microelectronics
XTOP 2016 - 13th Biennial Conference on High-Resolution X-Ray Diffraction and Imaging