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- ADMB03 HVIZDOŠ, Pavol - BALKO, Ján - FIDES, Martin - CHICARDI, E. Wear damage of TiTaCN-Co cermets at room and elevated temperatures. In Procedia Structural Integrity, 2017, vol. 5, p. 1385-1392. (2017 - WOS). ISSN 2452-3216. Dostupné na: <https://doi.org/10.1016/j.prostr.2017.07.202> (International conference on structural integrity : ICSI 2017)
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1. [1.1] *RAGHAV, G. R. - BALAJI, A. N. - SELVAKUMAR, N. - MUTHUKRISHNAN, D. - SAJITH, E. Effect of tungsten reinforcement on mechanical, tribological and corrosion behaviour of mechanically alloyed Co-25C Cermet nanocomposites. In MATERIALS RESEARCH EXPRESS. ISSN 2053-1591, 2019, vol. 6, no. 11, pp., Registrované v: WOS*
- ADMB04 JURKO, Jozef - DŽUPON, Miroslav - PANDA, Anton - ZAJAC, Jozef. Study influence of plastic deformation a new extra low carbon stainless steels XCr17Ni7MoTiN under the surface finish when drilling. In Advanced Materials Research, 2012, vol. 538-541, p. 1312-1315. (2011: 0.149 - SJR, Q3 - SJR). ISSN 1022-6680. Dostupné na: <https://doi.org/10.4028/www.scientific.net/AMR.538-541.1312>
Citácie:
1. [1.1] *ANISIMOV, Volodymyr Mykolaovych - ANISIMOV, Volodymyr Volodymyrovych - KRENICKY, Tibor. PROPERTIES PREDICTION OF LINEAR BLOCK-POLYURETHANES BASED ON THE MIXTURES OF SIMPLE OLIGOETHERS. In MANAGEMENT SYSTEMS IN PRODUCTION ENGINEERING. ISSN 2299-0461, 2019, vol. 27, no. 4, pp. 217-220., Registrované v: WOS*
 2. [1.1] *ZALOGA, Viliam - DYADYURA, Konstantyn - RYBALKO, Iryna - PANDOVA, Iveta. IMPLEMENTATION OF INTEGRATED MANAGEMENT SYSTEM IN ORDER TO ENHANCE EQUIPMENT EFFICIENCY. In MANAGEMENT SYSTEMS IN PRODUCTION ENGINEERING. ISSN 2299-0461, 2019, vol. 27, no. 4, pp. 221-226., Registrované v: WOS*
- ADMB05 KOVALČÍKOVÁ, Alexandra - BALKO, Ján - DUSZA, Ján. Influence of microstructure on tribological properties and nanohardness of silicon carbide ceramics. In Key Engineering Materials, 2015, vol. 662, p. 55-58. (2014: 0.210 -

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1. [1.1] SHARMA, Sandan Kumar - MANOJ KUMAR, B. Venkata - KIM, Young-Wook. Tribology of WC reinforced SiC ceramics: Influence of counterbody. In *FRICITION*. ISSN 2223-7690, 2019, vol. 7, no. 2, pp. 129-142., Registrované v: WOS

ADMB06 LEHOČKÁ, D. - KLICH, Jiří - FOLDYNA, Josef - HLOCH, S. - HVIZDOŠ, Pavol - FIDES, Martin - BOTKO, František - CÁCH, Ján. Surface integrity evaluation of brass CW614N after impact of acoustically excited pulsating water jet. In *Procedia Engineering*, 2016, vol. 149, p. 236-244. (2015: 0.238 - SJR). ISSN 1877-7058. Dostupné na: <https://doi.org/10.1016/j.proeng.2016.06.662>

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1. [1.1] LIU, Xiaochu - LIANG, Zhongwei - WEN, Guilin - YUAN, Xuefeng. Waterjet machining and research developments: a review. In *INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY*. ISSN 0268-3768, 2019, vol. 102, no. 5-8, pp. 1257-1335., Registrované v: WOS

ADMB07 LOFAJ, František - DUSZA, Ján. Temperature-dependence of young's modulus of Si3N4 based ceramics. In *Key Engineering Materials*, 1994, vol. 89-91, p. 647-652. ISSN 1013-9826.

Citácie:

1. [1.1] SHAO, Jiaying - LI, Weiguo - LI, Ying - DENG, Yong - ZHANG, Xianhe - KOU, Haibo - XU, Niandong - ZHANG, Xuyao - MA, Jianzuo - CHEN, Liming - QU, Zhaoliang. Temperature-dependent fracture strength of whisker-reinforced ceramic composites: Modeling and factor analysis. In *JOURNAL OF THE AMERICAN CERAMIC SOCIETY*. ISSN 0002-7820, 2019, vol. 102, no. 5, pp. 2841-2852., Registrované v: WOS

ADMB08 MONKOVÁ, Katarína - MONKA, Peter - JAKUBÉČZYOVÁ, Dagmar. The research of the high speed steels produced by powder and casting metallurgy from the view of tool cutting life. In *Applied mechanics and materials*, 2013, vol. 302, p. 269-274. (2012: 0.124 - SJR). ISSN 1660-9336. Dostupné na: <https://doi.org/10.4028/www.scientific.net/AMM.302.269> (2013 International conference on mechanical engineering and materials : ICMEM 2013)

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1. [1.1] ALOUANE, Chafia - KASSER, Abdelmadjid. Consolidation by atmospheric pressure of T15 tool steel powder. In *POWDER TECHNOLOGY*. ISSN 0032-5910, 2019, vol. 352, no., pp. 331-339., Registrované v: WOS
2. [1.1] PANDA, Anton - DYADYURA, Kostiantyn - HARNICAROVA, Marta - VALICEK, Jan - PANDOVA, Iveta - ZUZANA, Palkova. THE CONDITIONS FOR OBTAINING SELF-ORGANIZED STRUCTURES ON THE TRIBOLOGICAL SURFACES OF COMPOSITE MATERIALS BASED ON POLYTETRAFLUOROETHYLENE WHICH IS USED IN AUTOMOTIVE AND OTHER DEMANDING TECHNOLOGIES. In *MM SCIENCE JOURNAL*. ISSN 1803-1269, 2019, vol. 2019, no., pp. 3500-3508., Registrované v: WOS
3. [1.1] PASTUCHA, Peter - MAJSTOROVIC, Vidosav - KUCERA, Marian - BENO, Pavel - KRILE, Srecko. Study of Cutting Tool Durability at a Short-Term Discontinuous Turning Test. In *ADVANCES IN MANUFACTURING ENGINEERING AND MATERIALS, ICMEM 2018*. ISSN 2195-4356, 2019, vol., no., pp. 493-501., Registrované v: WOS
4. [1.1] SUKHODU, Leonid - PANDA, Anton - SUCHODUB, Luidmila - KUMEDA, Mariia - DYADYURA, Konstantyn - PANDOVA, Iveta.

- ADMB09 *HYDROXYAPATITE AND ZINC OXIDE BASED TWO-LAYER COATING, DEPOSITED ON Ti6AL4V SUBSTRATE. In MM SCIENCE JOURNAL. ISSN 1803-1269, 2019, vol. 2019, no., pp. 3494-3499., Registrované v: WOS*
PETRYSHYNETS, Ivan - KOVÁČ, František - PODOBOVÁ, Mária - GAVENDOVÁ, Petra - SOPKO, Martin - PETROV, Branislav. Columnar grain growth with enhanced rotation texture in temper rolled NO silicon steels. In Materials Science Forum, 2014, vol. 782, p. 201-204. (2014 - SCOPUS). ISSN 0255-5476. Dostupné na: <https://doi.org/10.4028/www.scientific.net/MSF.782.201> (Metallography 2013 : international symposium on metallography)
 Citácie:
 1. [1.1] *GUTIERREZ CASTANEDA, E. J. - PALAFOX CANTU, C. N. - TORRES CASTILLO, A. A. - SALINAS RODRIGUEZ, A. - DEQUINO LARA, R. - BOTELLO RIONDA, F. - MARQUEZ TORRES, F. - GARCIA GUILLERMO, S. Columnar grain growth during annealing prior to cold rolling of non-oriented electrical steels. In MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS. ISSN 0921-5107, 2019, vol. 243, no., pp. 8-18., Registrované v: WOS*
- ADMB10 VENCL, Aleksandar - MRDAK, Mihailo - HVIZDOŠ, Pavol. Tribological properties of WC-Co/NiCrBSi and Mo/NiCrBSi plasma spray coatings under boundary lubrication conditions. In Tribology in Industry : Journal of the Serbian Tribology Society, 2017, vol. 39, no. 2, p. 183-191. (2016: 0.471 - SJR, Q2 - SJR). (2017 - SCOPUS). ISSN 0354-8996 (print), 2217-7965 (online). Dostupné na: <https://doi.org/10.24874/ti.2017.39.02.04> (SerbiaTrib'17 : international conference on tribology)
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 1. [1.1] *SINGH, Gagandeep - KAUR, Manpreet. Sliding wear behavior of plasma sprayed 65% (NiCrSiFeBC)-35% (WC-Co) coating at elevated temperatures. In PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART J-JOURNAL OF ENGINEERING TRIBOLOGY. ISSN 1350-6501, 2019, vol., no., pp., Registrované v: WOS*

ADNB Vedecké práce v domácich neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADNB01 BESTERCI, Michal - DOBEŠ, Ferdinand - KVAČKAJ, Tibor - SÜLLEIOVÁ, Katarína - BALLÓKOVÁ, Beáta - VELGOSOVÁ, Oksana. High temperature mechanical properties of Al-Al4C3 composite produced by mechanical alloying. In Acta Metallurgica Slovaca, 2014, vol. 20, no. 3, p. 271-285. (2013: 0.324 - SJR). (2014 - SCOPUS). ISSN 1338-1156. Dostupné na: <https://doi.org/10.12776/ams.v20i3.307>
 Citácie:
 1. [1.1] *BUI DUC LONG - NGUYEN VAN KHANH - DUONG NGOC BINH - LE HONG THANG - LE THI BANG - SAID, Suhana Binti Mohd. SYNTHESIS OF Cu2ZnSnS4 BY MECHANICAL ALLOYING METHOD FOR THERMOELECTRIC APPLICATION. In ACTA METALLURGICA SLOVACA. ISSN 1335-1532, 2019, vol. 25, no. 3, pp. 174-179., Registrované v: WOS*

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

- AEC01 BENÁK, Michal - TURŇA, Milan - OŽVOLD, Milan - NESVADBA, Petr - LOKAJ, Ján - ČAPLOVIČ, Ľubomír - KOVÁČ, František - STOYKA, Volodymyr. Study of Al-austenitic steel boundary formed by explosion welding. In Metal 2010 :

19. mezinárodní konference metalurgie a materiálů. Rožnov pod Radhoštěm, 18.-20.5.2010. - Ostrava : Tanger, s.r.o., 2010, s. 235-240. ISBN 978-80-87294-15-4. (Metal 2010 : 19. mezinárodní konference metalurgie a materiálů)

Citácie:

1. [1.2] GHAREH SHIRAN, Mohammad Reza Khanzadeh - RAZAZI, Mohammad - BAKHTIARI, Hamid - TAVIRA, Ali. Evaluation of welding parameter's effects on corrosion behavior of bronze-carbon steel dual-layer explosion welded joint at salt environment. In *Materials Research*. ISSN 15161439, 2018-01-01, 21, 2, pp., Registrované v: SCOPUS

AEC02 BUREŠ, Radovan - FÁBEROVÁ, Mária - HEGEDÜS, L. - FÜZER, J. - KOLLÁR, P. Microstructure and properties of vitroperm based soft magnetic composite. In *Euro PM 2011 : congress and exhibition*. CD Proceedings. Barcelona, 9.-14.10.2011. - Shrewsbury : EPMA, 2011. Názov z CD. CD ROM (Euro PM 2011 congress and exhibition)

Citácie:

1. [1.1] HU, Wentao - FAN, Xi'an - LUO, Zigui - LUO, Fan - LI, Guangqiang - LI, Yawei - WANG, Jian. Microstructure and Magnetic Properties of Fe/ZrSiO₄ Composites Prepared by Mechanical Milling and Spark Plasma Sintering. In *IEEE TRANSACTIONS ON MAGNETICS*. ISSN 0018-9464, 2019, vol. 55, no. 12, pp., Registrované v: WOS

AEC03 VÝROSTKOVÁ, Anna - FALAT, Ladislav - KEPIČ, Ján - BRZIAK, Peter - PECHA, Jozef. Microstructure and fracture of 9%Cr-Mo-Co-B steel (CB2) weldment after isothermal ageing. In *Metal 2010 : 19. mezinárodní konference metalurgie a materiálů*. Rožnov pod Radhoštěm, 18.-20.5.2010. - Ostrava : Tanger, s.r.o., 2010, p. 409-414. ISBN 978-80-87294-15-4. (Metal 2010 : 19. mezinárodní konference metalurgie a materiálů)

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1. [1.1] MA, Yulin - LIU, Yue - ZHANG, Junjia - JIANG, Xu - LIU, Chunming. Effect of Tempering Temperature on the Precipitation Behavior and Mechanical Properties of a Martensite Ferritic Steel. In *JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE*. ISSN 1059-9495, 2019, vol. 28, no. 5, pp. 2799-2806., Registrované v: WOS

2. [1.1] MA, Yulin - ZHANG, Jun - ZHANG, Junjia - YANG, Jiaqi - LIU, Chunming - WANG, Pengzhe. Dissolution Behavior of Boron Nitride Inclusions and Segregation of Nb Element in Martensitic Ferritic Steel. In *STEEL RESEARCH INTERNATIONAL*. ISSN 1611-3683, 2019, vol., no., pp., Registrované v: WOS

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

AEE01 TATARKO, Peter - LOJANOVÁ, Š. - DUSZA, Ján - ŠAJGALÍK, Pavol. Influence of rare-earth sintering additives in Si₃N₄ based nanocomposites. In *Nanocon 2009*. Rožnov pod Radhoštěm, 20.-22.10.2009. - [S. n.], 2009. (Nanocon 2009)

Citácie:

1. [1.1] JOJO, Ntombikazi - SHONGWE, Mxolisi Brendon - OLUBAMBI, Peter Apata - TSHABALALA, Lerato Criscelda. The effect of silicon carbide on the mechanical and thermal behavior of spark plasma sintered silicon nitride ceramics with Al₂O₃ and Y₂O₃ additives. In *MATERIALS RESEARCH EXPRESS*. ISSN 2053-1591, 2019, vol. 6, no. 5, pp., Registrované v: WOS

2. [1.1] LUKIANOVA, Olga - KOLESNIKOV, Dmitrii - KRASILNIKOV, Vladimir - KHMARA, Alexander - PEREVISLOV, Sergey. PROPERTIES OF

PRESSURELESS SINTERED SILICON NITRIDE. In 10TH ANNIVERSARY INTERNATIONAL CONFERENCE ON NANOMATERIALS RESEARCH & APPLICATION (NANOCON 2018 (R)), 2019, vol., no., pp. 46-50., Registrované v: WOS

AFC Publikované príspevky na zahraničných vedeckých konferenciách

- AFC01 HRYHA, Eduard - DUDROVÁ, Eva. The sintering behaviour of Fe-Mn-C powder system, correlation between thermodynamics and sintering process, Mn distribution, and microstructure. In Materials Science Forum, 2007, vol. 534-536, p. 761-764. (2006: 0.369 - SJR, Q2 - SJR). ISSN 0255-5476. (2006 Powder metallurgy : World congress and exhibition (PM2006))

Citácie:

1. [1.1] CONTI, Malcolm Caligari - MALLIA, Bertram - SINAGRA, Emmanuel - WISMAYER, Pierre Schembri - BUHAGIAR, Joseph - VELLA, Daniel. The effect of alloying elements on the properties of pressed and non-pressed biodegradable Fe-Mn-Ag powder metallurgy alloys. In HELIYON. ISSN 2405-8440, 2019, vol. 5, no. 9, pp., Registrované v: WOS

***AFDA Publikované príspevky na medzinárodných vedeckých konferenciách poriadaných v SR**

- AFDA01 HENŽEL, Miroslav - ZIMOVČÁK, Peter - DUSZA, Ján - JUHÁSZ, A. - LENDVAI, J. Indentation testing of MoSi₂. In Key Engineering Materials, 2005, vol. 290, p. 288-291. (2004: 0.278 - IF). (2005 - SCOPUS). ISSN 1013-9826. Dostupné na: <https://doi.org/10.4028/0-87849-973-3.288> (Fractography of advanced ceramics II : International conference)

Citácie:

1. [1.1] GIANCHANDANI, Pardeep Kumar - CASALEGNO, Valentina - SALVO, Milena - FERRARIS, Monica - DLOUHY, Ivo. "Refractory Metal, RM Wrap": A tailorable, pressure-less joining technology. In CERAMICS INTERNATIONAL. ISSN 0272-8842, 2019, vol. 45, no. 4, pp. 4824-4834., Registrované v: WOS

DAI Dizertačné a habilitačné práce

- DAI01 CENIGA, Ladislav. Analytical models of thermal stresses in multi-component materials : dizertačné doktorské práce (DrSc.). Praha : Akademie věd ČR, 2012. 168 s.

Citácie:

1. [1.1] FALAT, Ladislav - DZUPON, Miroslav - TAVODOVA, Miroslava - HNILICA, Richard - L'UPTACIKOVA, Veronika - CIRIPOVA, Lucia - HOMOLOVA, Viera - DURISINOVA, Katarina. Microstructure and Abrasive Wear Resistance of Various Alloy Hardfacings for Application on Heavy-Duty Chipper Tools in Forestry Shredding and Mulching Operations. In MATERIALS, 2019, vol. 12, no. 13, pp., Registrované v: WOS

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

prof. Ing. Jozef Janovec, DrSc.

Názov semestr. predmetu: Funkčné a nanoštruktúrne materiály

Počet hodín za semester: 42

Názov katedry a vysokej školy: Vysoké učení technické v Brne, ČR, Ústav materiálových vied a inžinýrství

Ing. Karel Saksl, DrSc.

Názov semestr. predmetu: Metódy štruktúrnej analýzy

Počet hodín za semester: 30

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Ústav fyzikálnych vied

Semestrálne cvičenia:

doc. RNDr. Pavol Hvizdoš, DrSc.

Názov semestr. predmetu: Povrchové inžinierstvo

Počet hodín za semester: 22

Názov katedry a vysokej školy: Technická univerzita v Košiciach, Ústav materiálov

doc. RNDr. František Lofaj, DrSc.

Názov semestr. predmetu: Moderné materiály

Počet hodín za semester: 1

Názov katedry a vysokej školy: Technická univerzita v Košiciach, FEI

Semináre:

Terénne cvičenia:

Individuálne prednášky:

doc. RNDr. František Lofaj, DrSc.

Názov semestr. predmetu: Moderné materiály

Počet hodín za semester: 2

Názov katedry a vysokej školy: Technická univerzita v Košiciach, FEI

doc. RNDr. František Lofaj, DrSc.

Názov semestr. predmetu: Tribology of advanced coatings

Počet hodín za semester: 2

Názov katedry a vysokej školy: Kyushu University, Japonsko, Dept. of Mechanical Engineering

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
Alžírsko					Pavol Hvizdoš	5
Česko					Františka Dorčáková	3
Maďarsko					Beáta Ballóková	2
					Tamás Csanádi	4
					Tamás Csanádi	2
					Zuzana Molčanová	2
					Karel Saksl	2
					Dagmara Varcholová	2
Nemecko					Dávid Csík	5
					Vladimír Gírmán	4
					Katarína Šuľová	5
Rakúsko					Tamás Csanádi	71
					Pavol Hvizdoš	1
Taliansko					Pavol Hvizdoš	5
Počet vyslaní spolu					14	113

(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
Irán					Aliasghar Najafyadehkhoe	182
Rakúsko					Josef Schlacher	9
Rusko					Vasily Milyutin	77
Ukrajina					Vasyl	182

					Iefremenko	
					Vitaliy Bilanych	242
Počet prijatí spolu					5	692

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Japonsko	Japan Tribology Society	František Lofaj	7
Nemecko	XFEL 2020	Dagmara Varcholová	4
Spolu	2	2	11

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

Skratky použité v tabuľke C:

Japan Tribology Society - Japan Tribology Society
XFEL 2020 - User meeting XFEL 2020

Príloha F**Vedecko-popularizačná činnosť pracovníkov organizácie SAV**

Meno	Spoluautori	Typ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Ing. Radovan Bureš, CSc.	Faberovala	EX	Prezentácia vedeckej infraštruktúry - lab.pripravy práškov a lab. charakterizácie práškov, mikrovlnné laboratórium	UMV SAV	5.3.2020
Ing. Mária Fáberová	Bureš	EX	Prezentácia vedeckej infraštruktúry - lab.pripravy práškov a lab. charakterizácie práškov, mikrovlnné laboratórium	UMV SAV	5.3.2020
Ing. Alexandra Kovalčíková, PhD.	Erika Múdra, Ivan Shepa, Jana Andrejovská, Lenka Kvetková, Petra Hviščová	iné	Zábavno vzdelávací cyklus Zábavná prvouka/prírodoveda	Košice	6.2.2020
Ing. Radovan Bureš, CSc.		IN	Webová stránka ŠF MIKROMATEL	http://www.imr.saske.sk/project/mikromatel/index.html	3

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