

# 2012

## **AAA Monographs – international edition**

- AAA01 ŠALAK, Andrej - SELECKÁ, Marcela. Manganese in powder metallurgy steels. Cambridge : Cambridge International Science Publishing : 2012. 477 p. ISBN 978-1-907343-74-2.

## **AAB Monographs – national edition**

- AAB01 BRIANČIN, Jaroslav - MEDVECKÝ, Ľubomír. Elektrokeramické materiály. Košice : Huteňská fakulta TU, Ústav geotechniky SAV, Ústav materiálového výskumu SAV, 2011. 73 s. ISBN 978-80-553-0880-7.

## **ADCA Scientific international journals indexed in Current Contents (impacted)**

- ADCA01 AZHNIUK, Y.M. - STOYKA, Volodymyr - PETRYSHYNETS, Ivan - RUBISH, V.M. - GURANICH, O.G. - GOMONNAI, A.V. - ZAHN, D.R.T. SbSI nanocrystal formation in As-Sb-S-I glass under laser beam. In Materials Research Bulletin, 2012, vol. 47, p. 1520-1522. (2.105 - IF2011). (2012 - Current Contents). ISSN 0025-5408.
- ADCA02 BESTERCI, Michal - SÜLLEIOVÁ, Katarína - VELGOSOVÁ, Oksana. Kinetics of mechanical alloying, mechanical properties of micro and nanostructural Al-C systems. In High Temperature Materials and Processes, 2012, vol. 31, no. 4-5, p. 359-369. (0.242 - IF2011). (2012 - Current Contents). ISSN 0334-6455.
- ADCA03 BESTERCI, Michal - VARCHOLA, Marián - KOVÁČ, Ladislav - VELGOSOVÁ, Oksana. Contribution to kinetics of superplastic deformation of dispersion strengthened Al-Al<sub>4</sub>C<sub>3</sub> system. In High Temperature Materials and Processes, 2012, vol. 31, p. 3-5. (0.242 - IF2011). (2012 - Current Contents). ISSN 0334-6455.
- ADCA04 BRUNCKOVÁ, Helena - MEDVECKÝ, Ľubomír - HVIZDOŠ, Pavol. Effect of substrate on phase formation and surface morphology of sol-gel lead-free KNbO<sub>3</sub>, NaNbO<sub>3</sub>, and K<sub>0.5</sub>Na<sub>0.5</sub>NbO<sub>3</sub> thin films. In Chemical papers, 2012, vol. 66, no. 8, p. 748-756. (1.096 - IF2011). ISSN 0366-6352 Print.
- ADCA05 CENIGA, Ladislav. A novel analytical model and energy analysis of thermal stresses in two-phase composites. In Meccanica, 2012, vol. 47, p. 845-855. (1.558 - IF2011). (2012 - Current Contents). ISSN 0025-6455.
- ADCA06 DOBEŠ, Ferdinand - BESTERCI, Michal - BALLÓKOVÁ, Beáta - SÜLLEIOVÁ, Katarína - DYMÁČEK, Petr. Analysis of creep fracture in Al-Al<sub>4</sub>C<sub>3</sub> composite after ECAP. In Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing, 2012, vol. 532, p. 567-572. (2.003 - IF2011). (2012 - Current Contents). ISSN 0921-5093.
- ADCA07 ĎURIŠINOVÁ, Katarína - ĎURIŠIN, Juraj - OROLÍNOVÁ, Mária - ĎURIŠIN, Martin. Effect of particle additions on microstructure evolution of aluminium matrix composite. In Journal of Alloys and Compounds, 2012, vol. 525, p. 137-142. (2.289 - IF2011). (2012 - Current Contents). ISSN 0925-8388.
- ADCA08 DUSZA, Ján - MORGIEL, Jerzy - DUSZOVÁ, Annamária - KVETKOVÁ, Lenka - NOSKO, Martin - KUN, Péter - BALÁZSI, Csaba. Microstructure and fracture toughness of Si<sub>3</sub>N<sub>4</sub> + graphene platelet composites. In Journal of the European Ceramic Society, 2012, vol.32, p.3389-3397. (2.353 - IF2011). (2012 - Current Contents). ISSN 0955-2219.
- ADCA09 FADEEVA, I.V. - BAKUNOVA, Natalia V. - KOMLEV, V. - MEDVECKÝ,

- Lubomír - FOMIN, A.S. - GURIN, A.N. - BARINOV, S.M. Zinc- and silver-substituted hydroxyapatite: synthesis and properties. In Doklady Chemistry, 2012, vol. 442, p. 63-65. (0.315 - IF2011). (2012 - Current Contents). ISSN 0012-5008.
- ADCA10 FALAT, Ladislav - SVOBODA, Milan - VÝROSTKOVÁ, Anna - PETRYSHYNETS, Ivan - SOPKO, Martin. Microstructure and creep characteristics of dissimilar T91/TP316H martensitic/austenitic welded joint with Ni-based weld metal. In Materials Characterization, 2012, vol. 72, p. 15-23. (1.572 - IF2011). (2012 - Current Contents). ISSN 1044-5803.
- ADCA11 FEDORKOVÁ, Andrea - ORIŇÁKOVÁ, Renáta - ORIŇÁK, Andrej - KUPKOVÁ, Miriam - WIEMHÖFER, H.-D. - AUDINOT, Jean Nicolas - GUILLOT, J. Electrochemical and XPS study of LiFePO<sub>4</sub> cathode nanocomposite with PPy/PEG conductive network. In Solid State Sciences, 2012, vol. 14, p. 1238-1243. (1.856 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 1293-2558.
- ADCA12 FÜZEROVÁ, Jana - FÜZER, Ján - KOLLÁR, Peter - HEGEDÜS, Lukáš - BUREŠ, Radovan - FÁBEROVÁ, Mária. Analysis of the complex permeability versus frequency of soft magnetic composites consisting of iron and Fe<sub>73</sub>Cu<sub>1</sub>Nb<sub>3</sub>Si<sub>16</sub>B<sub>7</sub>. In IEEE Transactions on Magnetics, 2012, vol. 48, no. 4, p. 1545-1548. (1.363 - IF2011). (2012 - Current Contents). ISSN 0018-9464.
- ADCA13 GAUDIN, Jérôme - OZKAN, Cigdem - CHALUPSKÝ, Jaromír - BAJT, Saša - BURIAN, Tomáš - VYŠÍN, Luděk - COPPOLA, Nicola - FARAHANI, Shafagh Dastjani - CHAPMAN, Henry N. - GALASSO, Germano - HÁJKOVÁ, Věra - HARMAND, Marion - JUHA, Libor - JUREK, Marek - LOCH, Rolf A. - MÖLLER, Stefan - NAGASONO, Mitsuru - STÖRMER, Michael - SINN, Harald - SAKSL, Karel - SOBIERAJSKI, Ryszard - SCHULZ, Joachim - SOVÁK, Pavol - TOLEIKIS, Sven - TIEDTKE, Kai - TSCHENTTSCHER, Thomas - KRZYWINSKI, Jacek. Investigating the interaction of x-ray free electron laser radiation with grating structure. In Optics Letters, 2012, vol. 37, no. 15, p. 3033-3035. (3.399 - IF2011). (2012 - Current Contents). ISSN 0146-9592.
- ADCA14 GAVENDOVÁ, Petra - KOVÁČ, František - PETRYSHYNETS, Ivan - STOYKA, Volodymyr. Measurement of parameters determining mechanical properties of grains with particular orientation in non-oriented electrotechnical steels. In Chemické listy, 2011, roč. 105, s. 798-799. (0.620 - IF2010). (2011 - Current Contents). ISSN 0009-2770.
- ADCA15 HEGEDÜSOVÁ, Lucia - CENIGA, Ladislav. Contact strength and cracking of laminar ceramics. In High Temperature Materials and Processes, 2012, vol. 31, p. 173-179. (0.242 - IF2011). (2012 - Current Contents). ISSN 0334-6455.
- ADCA16 HEGEDÜSOVÁ, Lucia - CENIGA, Ladislav - DUSZA, Ján. Bending and contact strength of monolithic ceramic materials. In International Journal of Damage Mechanics, 2012, vol. 21, p. 293-305. (1.928 - IF2011). (2012 - Current Contents). ISSN 1056-7895.
- ADCA17 HOMOLOVÁ, Viera - KROUPA, Aleš - VÝROSTKOVÁ, Anna. Calculation of Fe-B-V ternary phase diagram. In Journal of Alloys and Compounds, 2012, vol. 520, p. 30-35. (2.289 - IF2011). (2012 - Current Contents). ISSN 0925-8388.
- ADCA18 HRYHA, Eduard - DUDROVÁ, Eva - NYBORG, Lars. On-line control of processing atmospheres for proper sintering of oxidation-sensitive PM steels. In Journal of Materials Processing Technology, 2012, vol. 212, p. 977-987. (1.783 - IF2011). (2012 - Current Contents). ISSN 0924-0136.
- ADCA19 HVIZDOŠ, Pavol - PUCHÝ, Viktor - DUSZOVÁ, Annamária - DUSZA, Ján - BALÁZSI, Csaba. Tribological and electrical properties of ceramic matrix composites with carbon nanotubes. In Ceramics International, 2012, vol. 38, p. 5669-

5676. (1.751 - IF2011). (2012 - Current Contents). ISSN 0272-8842.
- ADCA20 HVIZDOŠ, Pavol - BESTERCI, Michal - KULU, Priit. Tribological characteristics of micro- and nano-composites Cu-Al<sub>2</sub>O<sub>3</sub> at room and elevated temperatures. In High Temperature Materials and Processes, 2011, vol. 30, p. 573-577. (0.333 - IF2010). (2011 - Current Contents, WOS). ISSN 0334-6455.
- ADCA21 JAKUBÉCZYOVÁ, Dagmar - HVIZDOŠ, Pavol - SELECKÁ, Marcela. Investigation of thin layers deposited by two PVD techniques on high speed steel produced by powder metallurgy. In Applied Surface Science, 2012, vol. 258, p. 5105-5110. (2.103 - IF2011). (2012 - Current Contents). ISSN 0169-4332.
- ADCA22 KOVAL', Vladimír. Template-assisted fabrication and dielectrophoretic manipulation of PZT microtubes. In Ceramics-Silikáty, 2012, vol. 56, no. 3, p. 177-186. (0.382 - IF2011). (2012 - Current Contents). ISSN 0862-5468.
- ADCA23 KOVALČÍKOVÁ, Alexandra - BALÁZSI, Csaba - DUSZA, Ján - TAPASZTÓ, Orsolya. Mechanical properties and electrical conductivity in a carbon nanotube reinforced silicon nitride composite. In Ceramics International, 2012, vol. 38, p. 527-533. (1.751 - IF2011). (2012 - Current Contents). ISSN 0272-8842.
- ADCA24 KVAČKAJ, Tibor - NÉMETHOVÁ, Lenka - MIŠIČKO, R. - POKORNÝ, I. - MOLNÁROVÁ, Mária. Influence of reheating conditions on austenite grain growth. In High Temperature Materials and Processes, 2011, vol. 30, p. 535-538. (0.333 - IF2010). (2011 - Current Contents, WOS). ISSN 0334-6455.
- ADCA25 KVETKOVÁ, Lenka - DUSZOVÁ, Annamária - HVIZDOŠ, Pavol - DUSZA, Ján - KUN, Péter - BALÁZSI, Csaba. Fracture toughness and toughening mechanisms in graphene platelet reinforced Si<sub>3</sub>N<sub>4</sub> composites. In Scripta Materialia, 2012, vol. 66, p. 793-796. (2.699 - IF2011). (2012 - Current Contents). ISSN 1359-6462.
- ADCA26 LOFAJ, František - FERDINANDY, Milan - CEMPURA, G. - DUSZA, Ján. Nanoindentation, AFM and tribological properties of thin nc-WC/a-C coatings. In Journal of the European Ceramic Society, 2012, vol. 32, p. 2043-2051. (2.353 - IF2011). (2012 - Current Contents). ISSN 0955-2219.
- ADCA27 LOFAJ, František - MIKULA, Marian - GRANČIČ, B. - CEMPURA, G. - HORNÁK, Peter - KÚŠ, P. - KOTTFER, Daniel. Tribological properties of TiB<sub>x</sub> and WC/C coatings. In Ceramics-Silikáty, 2011, vol. 55, no. 4, p. 305-311. (0.297 - IF2010). (2011 - Current Contents). ISSN 0862-5468.
- ADCA28 MEDVECKÝ, Ľubomír - SOPČÁK, Tibor. Preparation and properties of octacalcium phosphate-polyhydroxybutyrate thin film composites. In Materials Letters, 2012, vol. 68, p. 157-160. (2.307 - IF2011). (2012 - Current Contents). ISSN 0167-577X.
- ADCA29 STREČKOVÁ, Magdaléna - SOPČÁK, Tibor - MEDVECKÝ, Ľubomír - BUREŠ, Radovan - FÁBEROVÁ, Mária - BAŤKO, Ivan - BRIANČIN, Jaroslav. Preparation, chemical and mechanical properties of microcomposite materials based on Fe powder and phenol-formaldehyde resin. In Chemical Engineering Journal, 2012, vol. 180, p. 343-353. (3.461 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 1385-8947.
- ADCA30 VARGA, R. - RYBA, T. - SAKSL, Karel - ZHUKOVA, V. - GONZALEZ, J. - ZHUKOV, A. Studies of magnetic and structural properties of Ni-Mn-Ga Heusler-type microwires. In Journal of Optoelectronics and Advanced Materials, 2012, vol. 14, no. 3-4, p. 257-261. (0.457 - IF2011). (2012 - Current Contents). ISSN 1454-4164.
- ADCA31 YANG, L. - GUO, G.Q. - CHEN, L.Y. - HUANG, C.L. - GE, T. - CHEN, D. - LIAW, P.K. - SAKSL, Karel - REN, Y. - ZENG, Q.S. - LAQUA, B. - CHEN, F.G. - JIANG, J.Z. Atomic-scale mechanisms of the glass-forming ability in metallic

glasses. In Physical Review Letters, 2012, vol. 109, 105502. (7.370 - IF2011). (2012 - Current Contents, WOS, SCOPUS). ISSN 0031-9007.

### **ADDA Scientific national journals indexed in Current Contents**

- ADDA01 OROLÍNOVÁ, Mária - ĎURIŠIN, Juraj - BESTERCI, Michal - ĎURIŠINOVÁ, Katarína - KOČIŠKO, Róbert - KVAČKAJ, Tibor - SAKSL, Karel - OROLÍNOVÁ, Zuzana. Microstructure and texture evolution during ECAP of pure aluminium and Al-4 vol% Al4C3 powder alloy. In Kovové materiály, 2012, vol. 50, no. 6, p. 433-440. (0.451 - IF2011). (2012 - Current Contents, Current Contents, Scopus). ISSN 0023-432X.
- ADDA02 RODZIŇÁK, Dušan - HVIZDOŠ, Pavol - ČERŇAN, Jozef - SEMRÁD, Karol. Plasma nitriding and its influence on contact fatigue of sintered steel. In Kovové materiály, 2012, vol. 50, no. 5, p. 365-371. (0.451 - IF2011). (2012 - Current Contents, Current Contents, Scopus). ISSN 0023-432X.

### **ADEA Scientific international journals indexed in Current Contents (impacted)**

- ADEA01 CEMPURA, G. - MOSKALEWICZ, Tomasz - WENDLER, Bogdan - LOFAJ, František - CZYRSKA-FILEMONOWICZ, Aleksandra. Microstructure and properties of nc-WC/a-C coating deposited on high speed steel by magnetron sputtering. In Chemické listy, 2012, vol. 106, p. s393-s394. (0.529 - IF2011). (2012 - Current Contents, SCOPUS). ISSN 0009-2770.
- ADEA02 ČIRIPOVÁ, Lucia - HRYHA, Eduard - DUDROVÁ, Eva - VÝROSTKOVÁ, Anna. Prediction of mechanical properties of Fe-Cr-Mo sintered steel in relationship with microstructure. In Materials and Design, 2012, vol. 35, p. 619-625. (2.200 - IF2011). ISSN 0261-3069.
- ADEA03 FALAT, Ladislav - VÝROSTKOVÁ, Anna - KEPIČ, Ján - ČIRIPOVÁ, Lucia. The influence of isothermal annealing on degradation of mechanical properties of homogeneous weldment of the 9Cr-Mo steel. In Chemické listy, 2012, vol. 106, p. s405-s406. (0.529 - IF2011). (2012 - Current Contents, SCOPUS). ISSN 0009-2770.
- ADEA04 GAVENDOVÁ, Petra - ČTVRTLÍK, Radim - KOVÁČ, František - PEŠEK, Ladislav - PETRYSHYNETS, Ivan. Dependence of indentation properties of electrotechnical steel on temperature and grain orientation. In Chemické listy, 2012, vol. 106, p. s413-s416. (0.529 - IF2011). (2012 - Current Contents, SCOPUS). ISSN 0009-2770.
- ADEA05 HALGAŠ, Radoslav - DUSZA, Ján - KOVÁCSOVÁ, Lucia - KAIFEROVÁ, Jana - MARKOVSKÁ, Neda. Indentation testing of human enamel. In Chemické listy, 2012, vol. 106, p. s417-s418. (0.529 - IF2011). (2012 - Current Contents, SCOPUS). ISSN 0009-2770.
- ADEA06 KUPKOVÁ, Miriam - KUPKA, Martin. Size-dependent microhardness of two-component sintered materials. In Chemické listy, 2012, vol. 106, sp. iss. s3, p. s462-s463. (0.529 - IF2011). (2012 - Current Contents, SCOPUS). ISSN 0009-2770. LMP 2011: Local Mechanical Properties, Olomouc, Czech Republic, 9-11 November 2011. (0.529 - IF2011).
- ADEA07 KVETKOVÁ, Lenka - DORČÁKOVÁ, Františka - NOSKO, Martin - DUSZA, Ján - KUN, Péter - BALÁZSI, Csaba. Indentation toughness of Si<sub>3</sub>N<sub>4</sub> reinforced with graphene platelets. In Chemické listy, 2012, vol. 106, p. s407-s408. (0.529 - IF2011). (2012 - Current Contents, SCOPUS). ISSN 0009-2770.
- ADEA08 MOLNÁROVÁ, Mária - GAVENDOVÁ, Petra - KVAČKAJ, Tibor - KOVÁČ,

- František. Nanohardness testing of multiphase C-Mn-Si steel. In Chemické listy, 2012, vol. 106, p. s495-s496. (0.529 - IF2011). (2012 - Current Contents, SCOPUS). ISSN 0009-2770.
- ADEA09 QUADE, Hendrik - STEFFEN, A. - GAVENDOVÁ, Petra - PRAHL, Ulrich - TOLAN, Metin - BLECK, Wolfgang. Experimental techniques for the microstructural characterization of retained austenite stability and single phase properties in low-alloyed trip steels. In Chemické listy, 2012, vol. 106, p. s515-s518. (0.529 - IF2011). (2012 - Current Contents, SCOPUS). ISSN 0009-2770.
- ADEA10 ŠKORVÁNEK, Ivan - MARCIN, Jozef - CAPIK, Marek - VARGA, Marek - TURČANOVÁ, Jana - KOVÁČ, Jozef - ŠVEC, Peter - JANIČKOVIČ, Dušan - KOVÁČ, František - STOYKA, Volodymyr. Tailoring of functional properties in Fe-based soft magnetic alloys by thermal processing under magnetic field. In Magnetohydrodynamics, 2012, vol. 48, no. 2, p. 371-377. (0.413 - IF2011). (2012 - WOS). ISSN 0024-998X.

#### **ADEB Scientific international journals non-indexed in Current Contents (non-impacted)**

- ADEB01 ADOBERG, Eron - PODGURSKI, Vitali - PEETSALU, Priidu - LIND, Liina - MIKLI, Valdek - HVIZDOŠ, Pavol - KULU, Priit. The effect of surface pre-treatment and coating post-treatment to the properties of TiN coatings. In Estonian Journal of Engineering, 2012, vol. 18, no. 3, p. 185-192. ISSN 1736-6038.
- ADEB02 FERDINANDY, Milan - LOFAJ, František - DUSZA, Ján - KOTTFER, Daniel. Príprava povlakov WC rozkladom W(CO)6 metódou PE CVD. In Hutnické listy : Odborný časopis pro hutnictví a materiálové inženýrství České republiky a Slovenské republiky, 2012, roč. 55, č. 2, s. 30-33. ISSN 0018-8069.
- ADEB03 HALAMA, M. - JEROLITSCH, D. - KOVAL, Karol. Korózny monitoring aktívneho/pasívneho stavu Zn povlakov. In Koroze a ochrana materiálu : Časopis Asociace korozních inženýrů pro otázky koroze a protikorozní ochrany, 2012, roč. 56, č. 2, s. 43-46. ISSN 1804-1213.
- ADEB04 HVIZDOŠ, Pavol - PUCHÝ, Viktor - DRDLÍK, Daniel - CIHLÁŘ, Jaroslav. Mechanical and tribological properties of Al<sub>2</sub>O<sub>3</sub>-ZrO<sub>2</sub> based composites prepared by EPD. In Key Engineering Materials, 2012, vol. 507, p. 191-195. ISSN 1013-9826.
- ADEB05 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. ISSN 1022-6680.
- ADEB06 KOVAL, Vladimír. High aspect ratio lead zirconate titanate tube structures: II. Directed assembly via dielectrophoresis. In Processing and Application of Ceramics, 2012, vol. 6, no. 1, p. 43-51.
- ADEB07 KOVAL, Vladimír. High aspect ratio lead zirconate titanate tube structures: I. Template assisted fabrication - vacuum infiltration method. In Processing and Application of Ceramics, 2012, vol. 6, no. 1, p. 37-42.
- ADEB08 MEDVECKÝ, Ľubomír. Microstructure and properties of polyhydroxybutyrate-chitosan-nanohydroxyapatite composite scaffolds. In The Scientific World Journal, 2012, doi: 10.1100/2012/537973, online 8 p. ISSN 1537-744X (online).
- ADEB09 OSTROUSHKO, Dmytro - SAKSL, Karel - SIEMERS, Carsten - ŘÍHOVÁ, Zuzana. Chips of Ti-6Al-2Sn-4Zr-6Mo alloy - a detailed geometry study. In World Academy of Science, Engineering and Technology, 2012, issue 68, p. 2029-2032. ISSN 2010-

- 376X.
- ADEB10 ROSENBERG, Gejza - SINAIOVÁ, Iveta - JUHÁR, Ľuboš. Influence of microstructural heterogeneities on capacity to absorb energy of dual-phase steels. In Manufacturing Technology, 2012, vol. 12, no. 13, p. 222-227. ISSN 1213-2489.
- ADEB11 ROSENBERG, Gejza - JUHÁR, Ľuboš. Fatigue resistance of dual phase steels in presence of microstructural inhomogeneities. In Manufacturing Technology, 2012, vol. 12, no. 13, p. 217-221. ISSN 1213-2489.
- ADEB12 ŘÍHOVÁ, Zuzana - SAKSL, Karel - SIEMERS, Carsten - OSTROUSHKO, Dmytro. Analyses of wear mechanisms occurring during machining of the titanium alloy Ti-6Al-2Sn-4Zr-6Mo. In World Academy of Science, Engineering and Technology, 2012, issue 68, p. 2017-2020. ISSN 2010-376X.
- ADEB13 ŠKANTÁROVÁ, Lenka - ORIŇÁK, Andrej - ORIŇÁKOVÁ, Renáta - LOFAJ, František. 4-aminothiophenol strong SERS signal enhancement at electrodeposited silver surface. In Nano-Micro Letters, 2012, vol. 4, no. 3, p. 184-188. ISSN 2150-5551. Internet. Internet.
- ADEB14 VARGA, R. - RYBA, T. - SAKSL, Karel - ZHUKOVA, V. - ZHUKOV, A. Fabrication and first characterization of Ni<sub>2</sub>MnGa glass-coated microwires. In Key Engineering Materials, 2012, vol. 495, p. 236-238. ISSN 1013-9826.

#### **ADFB Scientific national journals non-indexed in Current Contents (non-impacted)**

- ADFB01 AZHNIUK, Y.M. - STOYKA, Volodymyr - LOPUSHANSKY, V.V. - PETRYSHYNETS, Ivan - KOVÁČ, František - GOMONNAI, A.V. - ZAHN, D.R.T. Thermal diffusion of zinc from zinc-containing borosilicate glass into cadmium chalcogenide nanocrystals. In Acta Metallurgica Slovaca, 2012, vol. 18, no. 2-3, p. 100-108. ISSN 1338-1156.
- ADFB02 BESTERCI, Michal - VELGOSOVÁ, Oksana - IVAN, Jozef - KVAČKAJ, Tibor - KULU, Priit. Fracture mechanism of dispersion-strengthened Cu-Al<sub>2</sub>O<sub>3</sub> nanosystem. In Acta Metallurgica Slovaca, 2012, vol. 18, no. 2-3, p. 76-81. ISSN 1338-1156.
- ADFB03 ČERŇAN, Jozef - RODZIŇÁK, Dušan - KOMOLÍK, Miroslav - HVIZDOŠ, Pavol - SEMRÁD, Karol. Tribological properties of sintered steel following plasma nitriding. In Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials, 2012, vol. 12, no. 1, p. 34-42. ISSN 1335-8978.
- ADFB04 ĎURIŠINOVÁ, Katarína - OROLÍNOVÁ, Mária - ĎURIŠIN, Martin. Príprava a vlastnosti nanokryštalickej práškovej medi pre vysokoteplotné elektrotechnické aplikácie. In Časopis EE - časopis pre elektrotechniku a energetiku, 2012, roč. 18, č. 3, s. 10-13. ISSN 1335-2547.
- ADFB05 JAKUBÉCZYOVÁ, Dagmar - HAGAROVÁ, Mária. The study of two types of PVD coatings on the substrate made by powder metallurgy. In Acta Metallurgica Slovaca, 2012, vol. 18, no. 4, p. 191-199. ISSN 1338-1156.
- ADFB06 JAKUBÉCZYOVÁ, Dagmar - HAGAROVÁ, Mária - SAVKOVÁ, Jarmila. Evaluation of properties of multilayer and multicomponent PVD coatings deposited on the cutting tools produced by powder metallurgy. In Acta Metallurgica Slovaca, 2012, roč. 18, č. 1, s. 13-19. ISSN 1338-1156.
- ADFB07 KABÁTOVÁ, Margita - FÜZER, J. - FÜZEROVÁ, Jana - DUDROVÁ, Eva - KOLLÁR, P. - SELECKÁ, Marcela. Fe/SiO<sub>2</sub>/shellac composites prepared by mixing and vacuum/pressure impregnation. In Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials, 2012, vol. 12, no. 2, p. 99-109. ISSN 1335-8978.

- ADFB08 MEDVECKÝ, Ľubomír - BRIANČIN, Jaroslav - ĎURIŠIN, Juraj. Nanohydroxyapatite prepared by rapid precipitation method in the presence of tetrabutylammonium hydroxide. In Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials, 2010, vol. 10, no. 4, p. 213-222. ISSN 1335-8978.
- ADFB09 MEDVECKÝ, Ľubomír - KAŠIAROVÁ, Monika - MIHALIK, Ján - SOPČÁK, Tibor - BRUNCKOVÁ, Helena - BRIANČIN, Jaroslav. Statistical evaluation of mechanical properties of tetracalcium phosphate based cements. In Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials, 2012, vol. 12, no. 1, p. 43-50. ISSN 1335-8978.
- ADFB10 MIŠKOVÁ, Andrea - DUDROVÁ, Eva - KABÁTOVÁ, Margita - HARVANOVÁ, Jarmila. Properties and compressibility of Fe/SiO<sub>2</sub> composite coated powders. In Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials, 2010, vol. 10, no. 4, p. 179-190. ISSN 1335-8978.
- ADFB11 PETROVOVÁ, E. - MEDVECKÝ, Ľubomír - CIGÁNKOVÁ, V. - MAŽENSKÝ, D. - LUPTÁKOVÁ, L. - TARABOVÁ, L. - ALMÁŠIOVÁ, Viera - HOLOVSKÁ, Katarína. Osteogenic potential of marrow mesenchymal STEM cells seeded on hydroxyapatite composites. In Folia veterinaria : the scientific journal of the University of veterinary medicine in Košice - The Slovak Republic, 2011, vol. 55, no. 4, p. 148-150. ISSN 0015-5748.
- ADFB12 SHVAB, Ruslan - HVIZDOŠ, Pavol - DUDROVÁ, Eva - BERGMAN, Ola - BENGTSSON, Sven. Tribological behaviour of chromium alloyed sintered steel at room and elevated temperatures. In Transfer inovácií, 2012, no. 22, p. 34-37. ISSN 1337-7094.
- ADFB13 SOPČÁK, Tibor - MEDVECKÝ, Ľubomír - ĎURIŠIN, Juraj. Characterization of nanohydroxyapatite prepared by precipitation from calcium alpha-D-heptagluconate precursor solutions. In Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials, 2012, vol. 12, no. 2, p. 118-123. ISSN 1335-8978.
- ADFB14 STREČKOVÁ, Magdaléna - KABÁTOVÁ, Margita - DUDROVÁ, Eva - MEDVECKÝ, Ľubomír - BUREŠ, Radovan. Fe(core)/SiO<sub>2</sub>(shell) composite powder prepared by the sol-gel method. In Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials, 2012, vol. 12, no. 2, p. 110-117. ISSN 1335-8978.
- ADFB15 SULOWSKI, Maciej - KABÁTOVÁ, Margita - DUDROVÁ, Eva. Microstructure and properties of Cr-Mn alloyed sintered steels. In Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials, 2012, vol. 12, no. 2, p. 71-83. ISSN 1335-8978.

#### AEC Reviewed international proceedings , monographs

- AEC01 BALKO, Ján - BL'ANDA, Marek - HVIZDOŠ, Pavol - PUCHÝ, Viktor - DRDLÍK, Daniel - CIHLÁŘ, Jaroslav. Mechanical and tribological properties of zirconia and alumina based composites prepared by EPD. In CIEC13 : Proceedings of the 13th European inter-regional conference on ceramics. Barcelona, 12.-14.9.2012. Ed. M. Anglada. - Barcelona : Universitat Politecnica de Catalunya, 2012, p. 153-156. ISBN 978-84-615-9681-2.
- AEC02 BESTERCI, Michal - SÜLLEIOVÁ, Katarína - VELGOSOVÁ, Oksana - DOBEŠ, Ferdinand. Influence of heat treatment on mechanical properties of micro and nanostructural Al-C systems. In 20th IFHTSE : International federation for heat treatment and surface engineering congress 2012. Beijing, 23.-25.10.2012. Eds. Z.

- AEC03 Gao, H. Chong. - Chinese Heat Treatment Society, 2012, p. 166-170.
- AEC03 BESTERCI, Michal - SÜLLEIOVÁ, Katarína - VELGOSOVÁ, Oksana. Mechanical alloying of Al-C system. In Frontiers in Mechanochemistry and Mechanical Alloying : Compilation of papers of INCOME 2008. Ed. R. Kumar et al. - Jamshedpur, India : CSIR-National Metallurgical Laboratory, 2011, p. 185-189. ISBN 97881-87053-69-8.
- AEC04 DUDROVÁ, Eva - HRUBOVČÁKOVÁ, Monika - HYRYHA, Eduard - KABÁTOVÁ, Margita. Parameters controlling the reduction of oxides during sintering of Cr-prealloyed steel. In Euro PM 2012 : International Powder Metallurgy Congress and Exhibition. CD Proceedings. Basel, Switzerland, 16.-19.9.2012 [elektronický zdroj]. - European Powder Metallurgy Association, 2012. ISBN 978-1-899072-36-1. CD. CD ROM.
- AEC05 HLOCH, S. - FOLDYNA, J. - MAGUROVÁ, D. - KLOČ, J. - KOZAK, D. - RUGGIERO, A. - TOZAN, H. - MONKA, P. - MONKOVÁ, Katarína - HVIZDOŠ, Pavol - CHATTOPADYAYA, S. - ZELENÁK, M. - NEMCOVÁ, J. Using water jet in orthopaedic surgery. In TEAM 2012 : Proceedings of the 4th international scientific and expert conference. Slavonski Brod, 17.-19.10.2012. Eds. M. Živič, T. Galeta. - Osijek : International TEAM society, 2012, p. 153-156. ISSN 1847-9065.
- AEC06 MEDVECKÝ, Ľubomír - SOPČÁK, Tibor - STREČKOVÁ, Magdaléna. Phase composition of nanohydroxyapatite synthesized by precipitation from calcium D-gluconate solutions. In Euro PM 2012 : International Powder Metallurgy Congress and Exhibition. CD Proceedings. Basel, Switzerland, 16.-19.9.2012 [elektronický zdroj]. - European Powder Metallurgy Association, 2012. ISBN 978-1-899072-36-1. CD. CD ROM.
- AEC07 ROSENBERG, Gejza - SINAIOVÁ, Iveta - GAŠKO, Martin - JUHÁR, Ľuboš. Mechanické vlastnosti povrchových a podpovrchových vrstiev oceľových plechov. In 24. dny tepelného zpracováni s mezinárodní účastí : 24. DTZ 2012. Jihlava, 27.-29.11.2012 [elektronický zdroj]. - Čerčany : Ecosond, s.r.o., 2012. ISBN 978-80-904462-5-0. CD. CD ROM.
- AEC08 ROSENBERG, Gejza - SINAIOVÁ, Iveta - GAŠKO, Martin - JUHÁR, Ľuboš. Vplyv podmienok interkritického žihania na možnosť predikcie ľahových vlastností ocelí z nameraných hodnôt tvrdosti. In 24. dny tepelného zpracováni s mezinárodní účastí : 24. DTZ 2012. Jihlava, 27.-29.11.2012 [elektronický zdroj]. - Čerčany : Ecosond, s.r.o., 2012. ISBN 978-80-904462-5-0. CD. CD ROM.
- AEC09 ROSENBERG, Gejza - SINAIOVÁ, Iveta - GAŠKO, Martin - JUHÁR, Ľuboš. Únavová odolnosť dvojfázových ocelí v prítomnosti mikroštruktúrnych nehomogenít. In 2. mezinárodní konference NDT 2012 : Sborník příspěvků. Ústí nad Labem, 17.-18.10.2012 [elektronický zdroj]. Ed. M. Novák. - Ústí nad Labem : Univerzita J.E. Purkyně, 2012, s. 157-162. ISBN 978-80-7414-509-4. Názov z CD. CD ROM.
- AEC10 ROSENBERG, Gejza - SINAIOVÁ, Iveta - GAŠKO, Martin - JUHÁR, Ľuboš. Vplyv mikroštruktúrnych heterogenít na schopnosť dvojfázových ocelí absorbovať energiu. In 2. mezinárodní konference NDT 2012 : Sborník příspěvků. Ústí nad Labem, 17.-18.10.2012 [elektronický zdroj]. Ed. M. Novák. - Ústí nad Labem : Univerzita J.E. Purkyně, 2012, s. 162-167. ISBN 978-80-7414-509-4. Názov z CD. CD ROM.
- AEC11 SHVAB, Ruslan - HVIZDOŠ, Pavol - DUDROVÁ, Eva - BERGMAN, Ola - BENGTSSON, Sven. Wear characteristics of high chromium alloyed steel. In Euro PM 2012 : International Powder Metallurgy Congress and Exhibition. CD Proceedings. Basel, Switzerland, 16.-19.9.2012 [elektronický zdroj]. - European

- AEC12 Powder Metallurgy Association, 2012. ISBN 978-1-899072-36-1. CD. CD ROM.  
STREČKOVÁ, Magdaléna - KABÁTOVÁ, Margita - DUDROVÁ, Eva - MEDVECKÝ, Ľubomír - BUREŠ, Radovan. Design of Fe/SiO<sub>2</sub> composites with the compact SiO<sub>2</sub> coating prepared by sol-gel method. In Euro PM 2012 : International Powder Metallurgy Congress and Exhibition. CD Proceedings. Basel, Switzerland, 16.-19.9.2012 [elektronický zdroj]. - European Powder Metallurgy Association, 2012. ISBN 978-1-899072-36-1. CD. CD ROM.
- AEC13 STREČKOVÁ, Magdaléna - BUREŠ, Radovan - FÁBEROVÁ, Mária - MEDVECKÝ, Ľubomír. Preparation and characterization of core-shell composite based on Fe powder and phenol-formaldehyde resin modified with nanometer-sized SiO<sub>2</sub>. In Euro PM 2012 : International Powder Metallurgy Congress and Exhibition. CD Proceedings. Basel, Switzerland, 16.-19.9.2012 [elektronický zdroj]. - European Powder Metallurgy Association, 2012. ISBN 978-1-899072-36-1. CD. CD ROM.

#### **AED Reviewed national proceedings , monographs**

- AED01 BIRČÁKOVÁ, Zuzana - KOLLÁR, P. - FÜZER, J. - FÁBEROVÁ, Mária - BUREŠ, Radovan. Magnetic properties of iron-based composite materials: power losses as a function of maximum induction. In PHYSICS OF MATERIALS 2012- Proceedings of the scientific conference, October 17-19, 2012, Košice. Eds. J. Tóthová, V. Lisý. - Košice : Technical University of Košice, 2012, p. 83-88. ISBN 978-80-553-1175-3.
- AED02 BLANDA, Marek - HVIZDOŠ, Pavol - DUSZA, Ján. Measurement of mechanical properties by instrumented indentation. In International Doctoral Seminar : Proceedings. Smolenice, 20.-22.5.2012. Ed. M. Daubnerová. - Trnava : AlumniPress, 2012, p. 31-37. ISBN 978-80-8096-164-0. CD. CD ROM.
- AED03 ĎURIŠIN, Juraj Jr. - BEDNARČÍK, J. - SAKSL, Karel - PIETRIKOVÁ, A. Atomic structure of molten solders. In PHYSICS OF MATERIALS 2012- Proceedings of the scientific conference, October 17-19, 2012, Košice. Eds. J. Tóthová, V. Lisý. - Košice : Technical University of Košice, 2012, p. 185-187. ISBN 978-80-553-1175-3.
- AED04 FÜZER, J. - FÜZEROVÁ, Jana - KOLLÁR, P. - FÁBEROVÁ, Mária - BUREŠ, Radovan. Soft magnetic compacted materials. In PHYSICS OF MATERIALS 2012- Proceedings of the scientific conference, October 17-19, 2012, Košice. Eds. J. Tóthová, V. Lisý. - Košice : Technical University of Košice, 2012, p. 39-40. ISBN 978-80-553-1175-3.
- AED05 HALAMA, M. - JEROLITSCH, D. - KOVAL, Karol. Korózny monitoring HDG plechov. In 54. medzinárodná galvanická konferencia : Zborník prednášok. Kočovce, 12.-13.6.2012. Eds. V. Danielik, M. Chovancová. - Bratislava : STU, 2012, s. 32-38. ISBN 978-80-227-3719-7.
- AED06 HALGAŠ, Radoslav - DUSZA, Ján - MARKOVSKÁ, Neda. Nanoindentation and human teeth. In International Doctoral Seminar : Proceedings. Smolenice, 20.-22.5.2012. Ed. M. Daubnerová. - Trnava : AlumniPress, 2012, p. 107-112. ISBN 978-80-8096-164-0. CD. CD ROM.
- AED07 KOVÁČ, František - PETRYSHYNETS, Ivan - PETROV, B. Influence of second phase particles on grain boundary motion in electrical steels. In PHYSICS OF MATERIALS 2012- Proceedings of the scientific conference, October 17-19, 2012, Košice. Eds. J. Tóthová, V. Lisý. - Košice : Technical University of Košice, 2012, p. 230-232. ISBN 978-80-553-1175-3.
- AED08 PETRYSHYNETS, Ivan - KOVÁČ, František - PETROV, B. Development of grain growth mechanism in grain oriented steels. In PHYSICS OF MATERIALS 2012-

Proceedings of the scientific conference, October 17-19, 2012, Košice. Eds. J. Tóthová, V. Lisý. - Košice : Technical University of Košice, 2012, p. 225-229. ISBN 978-80-553-1175-3.

### AEE Non-reviewed international proceedings , monographs

- AEE01 DZEDZINA, Rastislav - HAGAROVÁ, Mária - JAKUBÉCZYOVÁ, Dagmar. Experimentálne metódy stanovenia vlastností galvanických povlakov. In Vrstvy a povlaky 2012 : Zborník prednášok. Rožnov pod Radhoštěm, 8.-9.9.2012. - Trenčín : Miloš Vavrík, 2012, s. 13-16. ISBN 978-80-970824-1-3.
- AEE02 DŽUPON, Miroslav. Galvannealing žiarovo pozinkovanej trip ocele. In Vrstvy a povlaky 2012 : Zborník prednášok. Rožnov pod Radhoštěm, 8.-9.9.2012. - Trenčín : Miloš Vavrík, 2012, s. 17-22. ISBN 978-80-970824-1-3.
- AEE03 DŽUPON, Miroslav. Porušenie žíhaných pozinkovaných povlakov trip ocele. In Vrstvy a povlaky 2012 : Zborník prednášok. Rožnov pod Radhoštěm, 8.-9.9.2012. - Trenčín : Miloš Vavrík, 2012, s. 23-27. ISBN 978-80-970824-1-3.
- AEE04 FERDINANDY, Milan - KOTTFER, Daniel - HORŇÁK, Peter - DŽUPON, Miroslav. Príprava vrstvy TiAl3 na titánových zliatinách. In Vrstvy a povlaky 2012 : Zborník prednášok. Rožnov pod Radhoštěm, 8.-9.9.2012. - Trenčín : Miloš Vavrík, 2012, s. 29-30. ISBN 978-80-970824-1-3.
- AEE05 GEORGIEV, Jordan S. - ANESTIEV, Lubomir Andreev - SELECKÁ, Marcela. Investigation of the carbon alloying methods influence on the sintering process and the mechanical properties of iron based sintered alloys. In Metal science, novel materials, hydro- and aeodynamics 2012 : 2nd national conference with international participation. Sofia, 31.5.-1.6.2012 [elektronický zdroj]. - B.V., 2012. ISSN 1313-8308. Názov z CD. CD ROM.
- AEE06 HRUBOVČÁKOVÁ, Monika - KUPKOVÁ, Miriam - FEDORKOVÁ, Andrea - ORIŇÁKOVÁ, Renáta. Vplyv obsahu striebra na mikroštruktúru a korózne vlastnosti materiálov pripravených zo striebrom povlakovaného železného prášku. In Vrstvy a povlaky 2012 : Zborník prednášok. Rožnov pod Radhoštěm, 8.-9.9.2012. - Trenčín : Miloš Vavrík, 2012, s. 43-48. ISBN 978-80-970824-1-3.
- AEE07 JAKUBÉCZYOVÁ, Dagmar - KOČÍK, Marek - VNOUČEK, Milan - HAGAROVÁ, Mária. Analýza tenkých viaczložkových povlakov aplikovaných arc a larc PVD technológiou. In Vrstvy a povlaky 2012 : Zborník prednášok. Rožnov pod Radhoštěm, 8.-9.9.2012. - Trenčín : Miloš Vavrík, 2012, s. 49-54. ISBN 978-80-970824-1-3.
- AEE08 KUPKOVÁ, Miriam - KUPKA, Martin - KABÁTOVÁ, Margita. Efektívny Youngov modul pružnosti celulárneho materiálu určený z ohybovej tuhosti vrstevnej vzorky. In Vrstvy a povlaky 2012 : Zborník prednášok. Rožnov pod Radhoštěm, 8.-9.9.2012. - Trenčín : Miloš Vavrík, 2012, s. 65-67. ISBN 978-80-970824-1-3.
- AEE09 MICHALCOVÁ, Alena - NOVÁK, Pavel - MAREK, Ivo - MUDROVÁ, Martina - SAKSL, Karel - BEDNARČÍK, J. Description of reaction mechanism during reactive sintering of Al-Fe-Si-Ni alloy. In METAL 2012 : 21st international conference on metallurgy and materials. Brno, 23.-25.5.2012. - Brno, 2012. ISBN 978-80-87294-29-1. CD. CD ROM.
- AEE10 MOLNÁROVÁ, Mária - SOPKO, Martin - PETRYSHYNETS, Ivan - KOVÁČ, František - KOČIŠKO, Róbert. DSC Fe-Si neorientovanej elektrotechnickej ocele. In 34. mezinárodní český a slovenský kalorimetrický seminář : Sborník příspěvků. Harrachov, 28.5.-1.6.2012. - Pardubice : Univerzita Pardubice, 2012, p. 37-40. ISBN

- 978-80-7395-491-8.
- AEE11 NOVÁK, Pavel - MICHALCOVÁ, Alena - MAREK, Ivo - MUDROVÁ, Martina - BEDNARČÍK, J. - SAKSL, Karel. Formation of intermetallics during reactive sintering production of Fe-Al alloys. In METAL 2012 : 21st international conference on metallurgy and materials. Brno, 23.-25.5.2012. - Brno, 2012. ISBN 978-80-87294-29-1. CD. CD ROM.
- AEE12 ORIŇÁK, Andrej - ORIŇÁKOVÁ, Renáta - KUPKOVÁ, Miriam. A study of the nickel coating deposition onto the iron particles. In Vrstvy a povlaky 2012 : Zborník prednášok. Rožnov pod Radhoštěm, 8.-9.9.2012. - Trenčín : Miloš Vavrík, 2012, p. 75-80. ISBN 978-80-970824-1-3.
- AEE13 SOPKO, Martin - KOVÁČ, František - MOLNÁROVÁ, Mária - PETRYSHYNETS, Ivan - KOČIŠKO, Róbert. Štúdium vplyvu obsahu Si na teplotu fázovej premeny v elektrotechnických oceliach pomocou DSC. In 34. mezinárodní český a slovenský kalorimetrický seminář : Sborník příspěvků. Harrachov, 28.5.-1.6.2012. - Pardubice : Univerzita Pardubice, 2012, p. 53-56. ISBN 978-80-7395-491-8.
- AEE14 ZELEŇÁK, Adam - KUPKOVÁ, Miriam - GEORGIEV, Jordan S. - ORIŇÁKOVÁ, Renáta. Mikrotvrdoť spekaných PM materiálov pripravených z povlakovaných práškov. In Vrstvy a povlaky 2012 : Zborník prednášok. Rožnov pod Radhoštěm, 8.-9.9.2012. - Trenčín : Miloš Vavrík, 2012, s. 141-144. ISBN 978-80-970824-1-3.

#### **AEF Non-reviewed national proceedings , monographs**

- AEF01 BALKO, Ján - HVIZDOŠ, Pavol. Základné tribologické vlastnosti 3Y-TZP merané metódou ball-on-disc. In SEMDOK 2012 : 17th international of PhD. student's seminar. Žilina-Terchová, 25.-27.1.2012. - Žilina : University of Žilina, 2012, p. 100-103. ISBN 978-80-554-0477-6.
- AEF02 BLANDA, Marek - HVIZDOŠ, Pavol - DUSZA, Ján. Skúšanie vlastností krehkých materiálov metódami inštrumentálnej indentácie. In SEMDOK 2012 : 17th international of PhD. student's seminar. Žilina-Terchová, 25.-27.1.2012. - Žilina : University of Žilina, 2012, p. 108-111. ISBN 978-80-554-0477-6.
- AEF03 ĎURIŠIN, Martin. Štúdium kovových skiel na báze Zr65Al7.5Ni10Cu7.5. In SEMDOK 2012 : 17th international of PhD. student's seminar. Žilina-Terchová, 25.-27.1.2012. - Žilina : University of Žilina, 2012, p. 124-127. ISBN 978-80-554-0477-6.
- AEF04 GAVENDOVÁ, Petra - PETRYSHYNETS, Ivan - MOLNÁROVÁ, Mária - SOPKO, Martin - PUCHÝ, Viktor. On the measurement of the indentation hardness of trip steel. In Metalurgia Junior 2012 : Faculty of Metallurgy PhD students day. Košice, 22.-23.5.2012 [elektronický zdroj]. - Košice : Hutnícka fakulta TU, 2012, p. 28-31. ISBN 978-80-553-0919-4. Názov z CD. CD ROM.
- AEF05 GAVENDOVÁ, Petra - PETRYSHYNETS, Ivan - MOLNÁROVÁ, Mária - SOPKO, Martin - KOVÁČ, František - PUCHÝ, Viktor. Nanohardness measurement in selected grains of electrotechnical steel at elevated temperature. In Metalurgia Junior 2012 : Faculty of Metallurgy PhD students day. Košice, 22.-23.5.2012 [elektronický zdroj]. - Košice : Hutnícka fakulta TU, 2012, p. 24-27. ISBN 978-80-553-0919-4. Názov z CD. CD ROM.
- AEF06 HNATKO, Miroslav - KAŠIAROVÁ, Monika - GALUSKOVÁ, Dagmar - LENČEŠ, Zoltán - ŠAJGALÍK, Pavol. Korózia konštrukčných keramických materiálov v tavenine železa. In Interakcie tavenín s progresívnymi anorganickými materiálmi, 3. odborný seminár, 3.-4. október 2012 [elektronický zdroj]. - Košice : Technická univerzita v Košiciach, 2012, s. 56-73. ISBN 978-80-553-0931-6.

## **AFA Invited publications on the international scientific conferences**

AFA01 DUSZA, Ján. Failure and damage mechanisms in ceramic nanocomposites. In Ceramic Transactions, 2012, vol. 230, p. 133-148.

## **AFC Publications on the international scientific conferences**

AFC01 JAKUBÉCZYOVÁ, Dagmar - SELECKÁ, Marcela - KOČÍK, Marek - KUPKOVÁ, Miriam. Multicomponent thin films applied by PVD arc and larc technology. In Naučni izvestija, 2012, vol. 20, no. 1, p. 146-149. ISSN 1310-3946.

AFC02 KUPKOVÁ, Miriam - KUPKA, Martin - GEORGIEV, Jordan S. - ZELEŇÁK, Adam - ORIŇÁKOVÁ, Renáta - JAKUBÉCZYOVÁ, Dagmar - SELECKÁ, Marcela. Hardness of PM materials prepared from Cu/hydrocarbon coated iron powders. In Naučni izvestija, 2012, vol. 20, no. 1, p. 143-145. ISSN 1310-3946.

AFC03 ŠKORVÁNEK, Ivan - MARCIN, Jozef - VARGA, Marek - KOVÁČ, Jozef - KOVÁČ, František - ŠVEC, Peter. Tuning of magnetic anisotropy and domaun structure of soft magnetic Fe-based alloys by thermal processing under magnetic field. In EPM 2012 : 7th International Conference on Electromagnetic Processing of Materials, 22-26 October 2012, Beijing, China.

## **AFDA Publications on the international scientific conferences in the SR**

AFDA01 MARCIN, Jozef - CAPIK, Marek - KOVÁČ, Jozef - ŠVEC, Peter - PETRYSHYNETS, Ivan - KOVÁČ, František - ŠKORVÁNEK, Ivan. Tailoring of functional properties in FeSi steels and FeCo-based soft magnetic alloys by thermal processing under magnetic field. In Proceedings of the scientific conference Physics of Materials 2012, 17-19 October 2012, Košice, Slovakia. Editors Jana Tóthová, Vladimír Lisý. - Košice : TU, 2012, p. 149-152. ISBN 978-80-553-1175-3.

## **AFE Abstracts of invited publications from the international conferences**

AFE01 GALUSKOVÁ, Dagmar - KAŠIAROVÁ, Monika - HNATKO, Miroslav - GALUSEK, Dušan - ŠAJGALÍK, Pavol - DUSZA, Ján. Influence of corrosion on the surface characteristics and mechanical properties of structural ceramics. In PASNPG. Potential and applications of surface nanotreatment of polymers and glass, october 15-17, 2012 : book of extended abstracts. Eds. Vratislav Kapička, Vít Kudrle, Pavel Souček, Dana Skácelová, Jaroslav Hnilica, Petr Zeman, Pavel Baroch, Petra Prokopčáková, Adam Pazourek. - Brno, Czech Republic : Masarykova universita, 2012, p. 9-10. ISBN 978-80-210-5979-5.

## **AFG Abstracts of the publications from the international conferences**

AFG01 BIRČÁKOVÁ, Zuzana - KOLLÁR, P. - FÜZER, J. - FÁBEROVÁ, Mária - BUREŠ, Radovan. Analysis of the energy losses in Fe-based composite material. In JEMS 2012. Joint European magnetic symposia : Book of abstracts. Parma, 9.-14.9.2012. - B.V., 2012, p. 219.

AFG02 FÜZER, J. - KOLLÁR, P. - STREČKOVÁ, Magdaléna - BUREŠ, Radovan - FÁBEROVÁ, Mária - MEDVECKÝ, Ľubomír. Magnetic properties of composites based on Fe powder and phenol-formaldehyde resin modified with silicon dioxide.

- In JEMS 2012. Joint European magnetic symposia : Book of abstracts. Parma, 9.-14.9.2012. - B.V., 2012, p. 218.
- AFG03 KOLLÁR, P. - BIRČÁKOVÁ, Zuzana - FÜZER, J. - BUREŠ, Radovan - FÁBEROVÁ, Mária. DC and AC permeability of Fe-based composite material. In JEMS 2012. Joint European magnetic symposia : Book of abstracts. Parma, 9.-14.9.2012. - B.V., 2012, p. 218.
- AFG04 KOVÁČ, František - PETRYSHYNETS, Ivan - ŠKORVÁNEK, Ivan - FALAT, Ladislav - MARCIN, Jozef. Effect of VC inhibitors in combination with unconventional dynamical heat treatment on the magnetic properties of GO steel. In JEMS 2012. Joint European magnetic symposia : Book of abstracts. Parma, 9.-14.9.2012. - B.V., 2012, p. 360.
- AFG05 MEDVECKÝ, Ľubomír - SOPČÁK, Tibor - GIRMAN, V. - BRIANČIN, Jaroslav. Phase evolution and morphology changes in amorphous calcium phosphates prepared from calcium D-gluconate aqueous solutions. In COST Action MP1005 : 2nd joint meeting. Book of abstracts. Vienna, 4.-5.9.2012. - Vienna : Vienna University of Technology, 2012, p. 37-38. ISBN 978-3-9502481-7-3.

#### **AFHA Abstracts of the publications from the international conferences in the SR**

- AFHA01 BALKO, Ján - HVIZDOŠ, Pavol - BALÁZSI, Csaba. Wear damage in silicon nitride composites with graphene and carbon nanotubes. In Fraktografia - Fractography 2012 : International conference. Book of abstracts. Stará Lesná, 21.-24.10.2012. - Košice : Ústav materiálového výskumu SAV, 2012, p. 54. ISBN 978-80-970964-2-7.
- AFHA02 BALLÓKOVÁ, Beáta - KVAČKAJ, Tibor - HVIZDOŠ, Pavol - BESTERCI, Michal. Fracture analysis of copper processed by equal channel angular rolling. In Fraktografia - Fractography 2012 : International conference. Book of abstracts. Stará Lesná, 21.-24.10.2012. - Košice : Ústav materiálového výskumu SAV, 2012, p. 50. ISBN 978-80-970964-2-7.
- AFHA03 BL'ANDA, Marek - BALKO, Ján - DUSZOVÁ, Annamária - DUSZA, Ján - HVIZDOŠ, Pavol. Hardness and indentation fracture toughness of alumina-silicon carbide nanocomposites. In Fraktografia - Fractography 2012 : International conference. Book of abstracts. Stará Lesná, 21.-24.10.2012. - Košice : Ústav materiálového výskumu SAV, 2012, p. 53. ISBN 978-80-970964-2-7.
- AFHA04 BRUNCKOVÁ, Helena - MEDVECKÝ, Ľubomír - HVIZDOŠ, Pavol - ĎURIŠIN, Juraj. Microstructure of NaNbO<sub>3</sub> thin films prepared by sol-gel method on alumina and silicon substrates. In Fraktografia - Fractography 2012 : International conference. Book of abstracts. Stará Lesná, 21.-24.10.2012. - Košice : Ústav materiálového výskumu SAV, 2012, p. 22. ISBN 978-80-970964-2-7.
- AFHA05 BUREŠ, Radovan - FÁBEROVÁ, Mária - KOLLÁR, P. - FÜZER, J. Microstructure and fracture of vitroperm based composites. In Fraktografia - Fractography 2012 : International conference. Book of abstracts. Stará Lesná, 21.-24.10.2012. - Košice : Ústav materiálového výskumu SAV, 2012, p. 23. ISBN 978-80-970964-2-7.
- AFHA06 DUSZOVÁ, Annamária - BL'ANDA, Marek - HVIZDOŠ, Pavol - LOFAJ, František - DUSZA, Ján. Nano-hardness of individual phases in WC-Co cemented carbides. In Local mechanical properties 2012. LMP 2012 : 9th International conference. Book of abstracts. Levoča, 7.-9.11.2012. - Košice : Huteňská fakulta TU, 2012, p. 15. ISBN 978-80-553-1163-0.
- AFHA07 HALGAŠ, Radoslav - DUSZA, Ján - KOVÁCSOVÁ, Lucia - KAIFEROVÁ, Jana - MARKOVSKÁ, Neda. Influence of loading conditions on the deformation behaviour of human enamel studied by instrumented indentation. In Local

- mechanical properties 2012. LMP 2012 : 9th International conference. Book of abstracts. Levoča, 7.-9.11.2012. - Košice : Hutnícka fakulta TU, 2012, p. 19. ISBN 978-80-553-1163-0.
- AFHA08 HOMOLOVÁ, Viera - VÝROSTKOVÁ, Anna. Study of phase equilibria in systems with boron. In Annual meeting of associated phase diagram and thermodynamics committee APDTC. Trnava, 7.7.2012. - Trnava : MTF STU, 2012, p. 6.
- AFHA09 HRUBOVČÁKOVÁ, Monika - KUPKOVÁ, Miriam - FEDORKOVÁ, Andrea - ORIŇÁKOVÁ, Renáta. Microstructure and corrosion behavior of materials prepared from Ag coated iron powder. In 1st international conference on nanomaterials: fundamentals and applications : Book of abstracts. Štrbské Pleso, 3.-6.10.2012. - Košice : NFA, 2012. ISBN 978-80-7097-970-9.
- AFHA10 JAKUBÉCZYOVÁ, Dagmar - ZUBKO, Pavol - HAGAROVÁ, Mária - ZUBKO, Juraj. Assessment of local mechanical properties of thin coatings prepared by arc evaporation. In Local mechanical properties 2012. LMP 2012 : 9th International conference. Book of abstracts. Levoča, 7.-9.11.2012. - Košice : Hutnícka fakulta TU, 2012, p. 27. ISBN 978-80-553-1163-0.
- AFHA11 JAKUBÉCZYOVÁ, Dagmar - KOČÍK, Marek - HVIZDOŠ, Pavol. Aplikácia fraktografie na hodnotenie kompozitných vrstiev. In Fraktografia - Fractography 2012 : International conference. Book of abstracts. Stará Lesná, 21.-24.10.2012. - Košice : Ústav materiálového výskumu SAV, 2012, s. 44. ISBN 978-80-970964-2-7.
- AFHA12 KABÁTOVÁ, Margita - FÜZER, J. - FÜZEROVÁ, Jana - DUDROVÁ, Eva - KOLLÁR, P. SEM analysis of Fe/SiO<sub>2</sub>/shellac powder composites prepared by vacuum/pressure impregnation and mixing. In Fraktografia - Fractography 2012 : International conference. Book of abstracts. Stará Lesná, 21.-24.10.2012. - Košice : Ústav materiálového výskumu SAV, 2012, p. 40. ISBN 978-80-970964-2-7.
- AFHA13 KAŠIAROVÁ, Monika - VILČEKOVÁ, Zuzana - GHILLÁNYOVÁ, Katarína - HNATKO, Miroslav - DUSZA, Ján - ŠAJGALÍK, Pavol. Mechanical properties of porous silicon nitride. In Local mechanical properties 2012. LMP 2012 : 9th International conference. Book of abstracts. Levoča, 7.-9.11.2012. - Košice : Hutnícka fakulta TU, 2012, p. 33. ISBN 978-80-553-1163-0.
- AFHA14 KAŠIAROVÁ, Monika - GHILLÁNYOVÁ, Katarína - VILČEKOVÁ, Zuzana - HNATKO, Miroslav - DUSZA, Ján - ŠAJGALÍK, Pavol. Mechanical properties of the porous Si<sub>3</sub>N<sub>4</sub> ceramics. In Fraktografia - Fractography 2012 : International conference. Book of abstracts. Stará Lesná, 21.-24.10.2012. - Košice : Ústav materiálového výskumu SAV, 2012, p. 49. ISBN 978-80-970964-2-7.
- AFHA15 KOVALČÍKOVÁ, Alexandra - DUSZA, Ján. Characteristics of fracture origins in SiC based ceramics. In Fraktografia - Fractography 2012 : International conference. Book of abstracts. Stará Lesná, 21.-24.10.2012. - Košice : Ústav materiálového výskumu SAV, 2012, p. 51. ISBN 978-80-970964-2-7.
- AFHA16 KUPKOVÁ, Miriam - ZELEŇÁK, Adam - ORIŇÁKOVÁ, Renáta. Hardness of sintered samples with microgradient structure. In Local mechanical properties 2012. LMP 2012 : Book of abstracts. Levoča, 2012. - Košice : Hutnícka fakulta TU, 2012, p. 40. ISBN 978-80-553-1163-0.
- AFHA17 KUPKOVÁ, Miriam - ORIŇÁKOVÁ, Renáta - FILKUSOVÁ, M. - BALAZSI, K. - ZELEŇÁK, Adam. Properties of PM materials prepared from iron microparticles coated with a composite copper-carbon nanotubes layer. In 1st international conference on nanomaterials: fundamentals and applications : Book of abstracts. Štrbské Pleso, 3.-6.10.2012. - Košice : NFA, 2012. ISBN 978-80-7097-970-9.
- AFHA18 KVETKOVÁ, Lenka - KAŠIAROVÁ, Monika - DORČÁKOVÁ, Františka - DUSZA, Ján - KUN, Péter - BALÁZSI, Csaba. Fracture mechanism in Si<sub>3</sub>N<sub>4</sub> -

- graphene platelets composites. In Fraktografia - Fractography 2012 : International conference. Book of abstracts. Stará Lesná, 21.-24.10.2012. - Košice : Ústav materiálového výskumu SAV, 2012, p. 43. ISBN 978-80-970964-2-7.
- AFHA19      LOFAJ, František - DUSZA, Ján - DUSZOVÁ, Annamária. The evolution of the indent morphology in WC-Co during indentation fatigue using AFM. In Local mechanical properties 2012. LMP 2012 : 9th International conference. Book of abstracts. Levoča, 7.-9.11.2012. - Košice : Hutnícka fakulta TU, 2012, p. 41. ISBN 978-80-553-1163-0.
- AFHA20      MATOUŠEK, Tomáš - PONÍŽIL, Petr - BUREŠ, Radovan - FÁBEROVÁ, Mária. Estimation of resin distribution in sintered powder material. In Fraktografia - Fractography 2012 : International conference. Book of abstracts. Stará Lesná, 21.-24.10.2012. - Košice : Ústav materiálového výskumu SAV, 2012, p. 55. ISBN 978-80-970964-2-7.
- AFHA21      SHVAB, Ruslan - HVIZDOŠ, Pavol - DUDROVÁ, Eva - BERGMAN, Ola - BENGTSSON, Sven. Local mechanical properties of cast and sintered high Cr-alloyed steel. In Local mechanical properties 2012. LMP 2012 : 9th International conference. Book of abstracts. Levoča, 7.-9.11.2012. - Košice : Hutnícka fakulta TU, 2012, p. 65. ISBN 978-80-553-1163-0.
- AFHA22      SHVAB, Ruslan - DUDROVÁ, Eva - HVIZDOŠ, Pavol - BERGMAN, Ola - BENGTSSON, Sven. Fracture of high chromium alloyed PM steel at room and high temperature tensile test. In Fraktografia - Fractography 2012 : International conference. Book of abstracts. Stará Lesná, 21.-24.10.2012. - Košice : Ústav materiálového výskumu SAV, 2012, p. 42. ISBN 978-80-970964-2-7.
- AFHA23      STREČKOVÁ, Magdaléna - BUREŠ, Radovan - FÁBEROVÁ, Mária. Characterization of soft magnetic materials based on different ferromagnetic material. In Local mechanical properties 2012. LMP 2012 : 9th International conference. Book of abstracts. Levoča, 7.-9.11.2012. - Košice : Hutnícka fakulta TU, 2012, p. 67. ISBN 978-80-553-1163-0.
- AFHA24      STREČKOVÁ, Magdaléna - FÁBEROVÁ, Mária - BUREŠ, Radovan. On the improvement of mechanical properties of the soft magnetic composite through different hybrid inorganic-organic insulating coatings. In Fraktografia - Fractography 2012 : International conference. Book of abstracts. Stará Lesná, 21.-24.10.2012. - Košice : Ústav materiálového výskumu SAV, 2012, p. 23. ISBN 978-80-970964-2-7.
- AFHA25      SULOWSKI, Maciej - KABÁTOVÁ, Margita - DUDROVÁ, Eva. The effect of sintering atmosphere on the microstructure, properties and fracture behaviour of Cr-Mn low-alloyed sintered steels. In Fraktografia - Fractography 2012 : International conference. Book of abstracts. Stará Lesná, 21.-24.10.2012. - Košice : Ústav materiálového výskumu SAV, 2012, p. 47. ISBN 978-80-970964-2-7.
- AFHA26      ZELEŇÁK, Adam - KUPKOVÁ, Miriam - GEORGIEV, Jordan S. - ORIŇÁKOVÁ, Renáta. Hardness of sintered PM materials with microgradients in composition. In Fraktografia - Fractography 2012 : International conference. Book of abstracts. Stará Lesná, 21.-24.10.2012. - Košice : Ústav materiálového výskumu SAV, 2012, p. 33. ISBN 978-80-970964-2-7.

### **AFHB Abstracts of the publications from the national conferences**

- AFHB01      BALKO, Ján - HVIZDOŠ, Pavol - BALÁZSI, Csaba. Tribological testing of silicon nitride composites with graphene and carbon nanotubes. In Progress in advanced ceramic materials : Workshop. Book of abstracts. Ružín-Košice, 27.-28.11.2012. - Košice : Institute of Materials Research SAS, 2012, p. 6. ISBN 978-80-970964-3-4.

- AFHB02 BL'ANDA, Marek - BALKO, Ján - DUSZOVÁ, Annamária - HVIZDOŠ, Pavol - DUSZA, Ján - RAVERON, Helen. Hardness of alumina-silicon carbide nanocomposites. In Progress in advanced ceramic materials : Workshop. Book of abstracts. Ružín-Košice, 27.-28.11.2012. - Košice : Institute of Materials Research SAS, 2012, p. 7. ISBN 978-80-970964-3-4.
- AFHB03 DUSZOVÁ, Annamária - HALGAŠ, Radoslav - BL'ANDA, Marek - PRIPUTEN, Martin - HVIZDOŠ, Pavol - LOFAJ, František - DUSZA, Ján. Hardness anisotropy in individual grains of WC-Co cemented carbides. In Progress in advanced ceramic materials : Workshop. Book of abstracts. Ružín-Košice, 27.-28.11.2012. - Košice : Institute of Materials Research SAS, 2012, p. 12. ISBN 978-80-970964-3-4.
- AFHB04 FERDINANDY, Milan - LOFAJ, František - DUSZA, Ján. Preparation of WC coatings by W(CO)<sub>6</sub> decomposition using PE CVD. In Progress in advanced ceramic materials : Workshop. Book of abstracts. Ružín-Košice, 27.-28.11.2012. - Košice : Institute of Materials Research SAS, 2012, p. 13. ISBN 978-80-970964-3-4.
- AFHB05 GAALOVÁ, Petra - ŠIMÁKOVÁ, Anna - GALUSKOVÁ, Dagmar - LOFAJ, František - GALUŠEK, Dušan. Biomaterials for dental replacements - mechanisms and kinetics of corrosion. In Progress in advanced ceramic materials : Workshop. Book of abstracts. Ružín-Košice, 27.-28.11.2012. - Košice : Institute of Materials Research SAS, 2012, p. 14. ISBN 978-80-970964-3-4.
- AFHB06 HALGAŠ, Radoslav - DUSZA, Ján. Influence of loading conditions on the deformation behaviour of human enamel studied by instrumented indentation. In Progress in advanced ceramic materials : Workshop. Book of abstracts. Ružín-Košice, 27.-28.11.2012. - Košice : Institute of Materials Research SAS, 2012, p. 17. ISBN 978-80-970964-3-4.
- AFHB07 HEGEDÜSOVÁ, Lucia - CENIGA, Ladislav - DUSZA, Ján. Contact strength and crack formation in laminar ceramics. In Progress in advanced ceramic materials : Workshop. Book of abstracts. Ružín-Košice, 27.-28.11.2012. - Košice : Institute of Materials Research SAS, 2012, p. 35. ISBN 978-80-970964-3-4.
- AFHB08 HNATKO, Miroslav - BODIŠOVÁ, Katarína - DOMANICKÁ, Magdaléna - ŠAJGALÍK, Pavol - LOFAJ, František - VOJTAŠŠÁK, Ján. Characterizations and in vitro assessment of the cytotoxicity and genotoxicity of a novel Si<sub>3</sub>N<sub>4</sub> porous ceramics. In Progress in advanced ceramic materials : Workshop. Book of abstracts. Ružín-Košice, 27.-28.11.2012. - Košice : Institute of Materials Research SAS, 2012, p. 18. ISBN 978-80-970964-3-4.
- AFHB09 HVIŠČOVÁ, Petra - LOFAJ, František - NOVÁK, Michal. The comparison of different PVD technologies of W-C and B<sub>6</sub>O thin films on their composition and nanohardness. In Progress in advanced ceramic materials : Workshop. Book of abstracts. Ružín-Košice, 27.-28.11.2012. - Košice : Institute of Materials Research SAS, 2012, p. 20. ISBN 978-80-970964-3-4.
- AFHB10 HVIZDOŠ, Pavol - BALKO, Ján. Wear of ZrO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> based composites prepared by EPD. In Progress in advanced ceramic materials : Workshop. Book of abstracts. Ružín-Košice, 27.-28.11.2012. - Košice : Institute of Materials Research SAS, 2012, p. 21. ISBN 978-80-970964-3-4.
- AFHB11 KAŠIAROVÁ, Monika - BURÍK, Peter - TATARKO, Peter - ŠAJGALÍK, Pavol - DUSZA, Ján. Thermal shock resistance of Si<sub>3</sub>N<sub>4</sub>-SiC sintered with different rare-earth oxide additives. In Progress in advanced ceramic materials : Workshop. Book of abstracts. Ružín-Košice, 27.-28.11.2012. - Košice : Institute of Materials Research SAS, 2012, p. 22. ISBN 978-80-970964-3-4.
- AFHB12 KOVALČÍKOVÁ, Alexandra - DUSZA, Ján. Tribological properties of silicon carbide ceramics. In Progress in advanced ceramic materials : Workshop. Book of

- abstracts. Ružín-Košice, 27.-28.11.2012. - Košice : Institute of Materials Research SAS, 2012, p. 24. ISBN 978-80-970964-3-4.
- AFHB13** KVETKOVÁ, Lenka - DUSZA, Ján. Characterization of Si<sub>3</sub>N<sub>4</sub> with graphene platelets. In Progress in advanced ceramic materials : Workshop. Book of abstracts. Ružín-Košice, 27.-28.11.2012. - Košice : Institute of Materials Research SAS, 2012, p. 25. ISBN 978-80-970964-3-4.
- AFHB14** NOVÁK, Michal - LOFAJ, František. Nanoindentation studies of WC/C coatings prepared by different techniques of magnetron sputtering. In Progress in advanced ceramic materials : Workshop. Book of abstracts. Ružín-Košice, 27.-28.11.2012. - Košice : Institute of Materials Research SAS, 2012, p. 29. ISBN 978-80-970964-3-4.
- AFHB15** PARCHOVIANSKÝ, Milan - GALUSEK, Dušan - SEDLÁČEK, Jaroslav - KAŠIAROVÁ, Monika. Microstructure, mechanical properties and creep behavior of hot pressed Al<sub>2</sub>O<sub>3</sub>/SiC micro/nano composites. In Progress in advanced ceramic materials : Workshop. Book of abstracts. Ružín-Košice, 27.-28.11.2012. - Košice : Institute of Materials Research SAS, 2012, p. 30. ISBN 978-80-970964-3-4.
- AFHB16** VILČEKOVÁ, Zuzana - KAŠIAROVÁ, Monika - BODIŠOVÁ, Katarína - HNATKO, Miroslav - DUSZA, Ján - ŠAJGALÍK, Pavol - GROMOŠOVÁ, Silvia. Mechanical properties of biomaterials based on Si<sub>3</sub>N<sub>4</sub>. In Progress in advanced ceramic materials : Workshop. Book of abstracts. Ružín-Košice, 27.-28.11.2012. - Košice : Institute of Materials Research SAS, 2012, p. 34. ISBN 978-80-970964-3-4.

## AGJ Patents

- AGJ01** KOVÁČ, František - PETRYSHYNETS, Ivan. Zrnovo orientovaná elektrotechnická oceľ mikrolegovaná vanádom a spôsob jej výroby : Patentová prihláška PP 00091-2012. Banská Bystrica : UPV SR, 2012.
- AGJ02** MEDVECKÝ, Ľubomír. Spôsob prípravy prekurzorovej zmesi kalcium fosfátových cementov : Patentová prihláška PP 00049-2012.

## DAI PhD and habilitation thesis

- DAI01** HORŇÁK, Peter. Influence of deposition conditions of nanocomposite PVD coatings on their nanohardness and tribological properties : Written part of dissertation examination. Košice : IMR SAS, 2012. 78 p.
- DAI02** SHVAB, Ruslan. High temperature properties of PM components for turbocharger applications : Written part of dissertation examination. Košice : Ústav materiálového výskumu SAV, 2012. 58 p.
- DAI03** SOPKO, Martin. Štúdium vlastností nanočastíc Fe izolovaných z tuhej fázy : dizertačné doktorandské práce (PhD.,Dr.). Košice : Hutecká fakulta TU, 2012. 131 s.

## FAI Editing publications (proceedings, journals...)

- FAI01** Kovové materiály. Editor Juraj Lapin ; výkonný redaktor Natália Mináriková. Bratislava : Ústav materiálov a mechaniky strojov SAV, 1963-. 6x ročne. ISSN 0023-432X.
- FAI02** Advanced implants seeded with STEM cells for hard tissues regeneration and reconstruction : Information bulletin. Ed. Ľubomír Medvecký. Košice : IMR SAS, 2012. 11 p.
- FAI03** Progress in advanced ceramic materials : Workshop. Book of abstracts. Ružín-

- Košice, 27.-28.11.2012. Košice : Institute of Materials Research SAS, 2012. 35 p.  
ISBN 978-80-970964-3-4.
- FAI04 Fraktografia - Fractography 2012 : International conference. Book of abstracts. Stará  
Lesná, 21.-24.10.2012. Košice : Ústav materiálového výskumu SAV, 2012. 55 s.  
ISBN 978-80-970964-2-7.