

2013

ABC Monographs – international edition

- ABC01 HVIZDOŠ, Pavol - TATARKO, Peter - DUSZOVÁ, Annamária - DUSZA, Ján. Failure mechanisms of ceramic nanocomposites. In Ceramic nanocomposites. - Cambridge : Woodhead Publishing, 2013, p. 117-152. ISBN 978-0-85709-338-7.

ADCA Scientific International Journals Indexed in Current Contents (Impacted)

- ADCA01 AZHNIUK, Y.M. - GOMONNAI, A.V. - RUBISH, V.M. - RIGAN, M.Y. - SOLOMON, A.M. - GOMONNAI, O.O. - GURANICH, O.G. - PETRYSHYNETS, Ivan - ZAHN, D.R.T. In situ Raman observation of laser-induced formation of TlInSe₂ crystallites in Tl-In-As-Se glass. In Journal of Physics and Chemistry of Solids, 2013, vol. 74, p. 1452-1458. (1.527 - IF2012). (2013 - Current Contents). ISSN 0022-3697.
- ADCA02 BODIŠOVÁ, Katarína - KAŠIAROVÁ, Monika - DOMANICKÁ, Magdaléna - HNATKO, Miroslav - LENČÉS, Zoltán - VARCHULOVÁ NOVÁKOVÁ, Zuzana - VOJTAŠŠÁK, Ján - GROMOŠOVÁ, Silvia - ŠAJGALÍK, Pavol. Porous silicon nitride ceramics designed for bone substitute applications. In Ceramics International, 2013, vol. 39, p. 8355-8362. (1.789 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0272-8842.
- ADCA03 BRUNCKOVÁ, Helena - MEDVECKÝ, Ľubomír - ĎURIŠIN, Juraj - HVIZDOŠ, Pavol. Phase and morphology formation of Na doped PMN thin films prepared by modified sol-gel method. In Ceramics-Silikáty, 2013, vol. 57, no. 1, p. 22-27. (0.418 - IF2012). (2013 - Current Contents). ISSN 0862-5468.
- ADCA04 BRUNCKOVÁ, Helena - MEDVECKÝ, Ľubomír - HVIZDOŠ, Pavol. Effect of substrate on microstructure and mechanical properties of sol-gel prepared (K, Na)NbO₃ thin films. In Materials Science and Engineering B - Solid-State Materials for Advanced Technology, 2013, vol. 178, p. 254-262. (1.846 - IF2012). (2013 - Current Contents). ISSN 0921-5107.
- ADCA05 DUSZOVÁ, Annamária - MORGIEL, Jerzy - BASTL, Zdeněk - MIHÁLY, J. - DUSZA, Ján. Characterization of carbon nanofibers/ZrO₂ ceramic matrix composite. In Archives of Metallurgy and Materials, 2013, vol. 58, no. 2, p. 459-463. (0.431 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 1733-3490.
- ADCA06 DUSZOVÁ, Annamária - HVIZDOŠ, Pavol - LOFAJ, František - MAJOR, Lukasz - DUSZA, Ján - MORGIEL, Jerzy. Indentation fatigue of WC-Co cemented carbides. In International Journal of Refractory Metals and Hard Materials, 2013, vol. 41, p. 229-235. (1.858 - IF2012). (2013 - Current Contents). ISSN 0263-4368.
- ADCA07 DUSZOVÁ, Annamária - HALGAŠ, Radoslav - BL'ANDA, Marek - HVIZDOŠ, Pavol - LOFAJ, František - DUSZA, Ján - MORGIEL, Jerzy. Nanoindentation of WC-Co hardmetals. In Journal of the European Ceramic Society, 2013, vol. 33, p. 2227-2232. (2.360 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0955-2219.
- ADCA08 DŽUPON, Miroslav - FALAT, Ladislav - SLOTA, Ján - HVIZDOŠ, Pavol. Failure

- analysis of overhead power line yoke connector. In Engineering Failure Analysis, 2013, vol. 33, p. 66-74. (0.855 - IF2012). (2013 - Current Contents). ISSN 1350-6307.
- ADCA09 GAUDIN, Jérôme - SAKSL, Karel. Photon energy dependence of graphitization threshold for diamond irradiated with an intense XUV FEL pulse. In Physical Review B, 2013, vol. 88, 060101(R. ISSN 1098-0121).
- ADCA10 GOMONNAI, A.V. - PETRYSHYNETS, Ivan - AZHNIUK, Y.M. - GOMONNAI, O.O. - ROMAN, I.Yu. - TUROK, I.I. - SOLOMON, A.M. - ROSUL, R.R. - ZAHN, D.R.T. Growth and characterisation of sulphur-rich TiIn(S_{1-x}Se_x)₂ single crystals. In Journal of Crystal Growth, 2013, vol. 367, p. 35-41. (1.552 - IF2012). (2013 - Current Contents). ISSN 0022-0248.
- ADCA11 HALGAŠ, Radoslav - DUSZA, Ján - KAIFEROVÁ, Jana - KOVÁČSOVÁ, Lucia - MARKOVSKÁ, Neda. Nanoindentation testing of human enamel and dentin. In Ceramics-Silikáty, 2013, vol. 57, no. 2, p. 92-99. (0.418 - IF2012). (2013 - Current Contents). ISSN 0862-5468.
- ADCA12 HRUBOVČÁKOVÁ, Monika - DUDROVÁ, Eva - HRYHA, Eduard - KABÁTOVÁ, Margita - HARVANOVÁ, Jarmila. Parameters controlling the oxide reduction during sintering of chromium prealloyed steel. In Advances in Materials Science and Engineering, 2013, article ID 789373. (0.500 - IF2012). ISSN 1687-6822.
- ADCA13 HVIZDOŠ, Pavol - BESTERCI, Michal - KULU, Priit - KVAČKAJ, Tibor. Tribological characteristics of copper based composites with Al₂O₃ particles at various temperatures. In High Temperature Materials and Processes, 2013, vol. 32, no. 5, p. 437-442. (0.252 - IF2012). (2013 - Current Contents). ISSN 0334-6455.
- ADCA14 HVIZDOŠ, Pavol - DUSZA, Ján - BALÁZSI, Csaba. Tribological properties of Si₃N₄-graphene nanocomposites. In Journal of the European Ceramic Society, 2013, vol. 33, p. 2359-2364. (2.360 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0955-2219.
- ADCA15 KABAN, I. - JÓVÁRI, P. - KOKOTIN, V. - SHULESHOVA, O. - BEUNEU, B. - SAKSL, Karel - MATTERN, N. - ECKERT, J. - GREER, A.L. Local atomic arrangements and their topology in Ni-Zr and Cu-Zr glassy and crystalline alloys. In Acta Materialia, 2013, vol. 61, p. 2509-2520. (3.941 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 1359-6454.
- ADCA16 KABÁTOVÁ, Margita - DUDROVÁ, Eva - BRUNCKOVÁ, Helena. The effect of calcination on morphology of phosphate coating and microstructure of sintered iron phosphated powder. In Surface and Interface Analysis, 2013, vol. 45, p. 1166-1173. (1.220 - IF2012). (2013 - Current Contents). ISSN 0142-2421.
- ADCA17 KOLLÁR, P. - BIRČÁKOVÁ, Zuzana - FÜZER, J. - BUREŠ, Radovan - FÁBEROVÁ, Mária. Power loss separation in Fe-based composite materials. In Journal of Magnetism and Magnetic Materials, 2013, vol. 327, p. 146-150. (1.826 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0304-8853.
- ADCA18 KOTTFER, Daniel - FERDINANDY, Milan - KACZMAREK, Lukasz - MAŇKOVÁ, Ildikó - BEŇO, J. Investigation of Ti and Cr based PVD coatings deposited onto HSS Co 5 twist drills. In Applied Surface Science, 2013, vol. 282, p. 770-776. (2.112 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0169-4332.
- ADCA19 KOVÁČ, František - PETRYSHYNETS, Ivan - MARCIN, Jozef - ŠKORVÁNEK, Ivan. Effect of VC nano-inhibitors and dynamic continuous annealing on the magnetic properties of GO steels. In IEEE Transactions on Magnetics, 2013, vol. 49, no. 7, p. 4196-4199. (1.422 - IF2012). (2013 - Current Contents). ISSN 0018-9464.

- ADCA20 KOVALČÍKOVÁ, Alexandra - DUSZA, Ján - ŠAJGALÍK, Pavol. Influence of the heat treatment on mechanical properties and oxidation resistance of SiC-Si3N4 composites. In Ceramics International, 2013, vol. 39, p. 7951-7957. (1.789 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0272-8842.
- ADCA21 KVETKOVÁ, Lenka - DUSZOVÁ, Annamária - KAŠIAROVÁ, Monika - DORČÁKOVÁ, Františka - DUSZA, Ján - BALÁZSI, Csaba. Influence of processing on fracture toughness of Si3N4 + graphene platelet composites. In Journal of the European Ceramic Society, 2013, vol. 33, p. 2299-2304. (2.360 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0955-2219.
- ADCA22 LOFAJ, František - MOSKALEWICZ, Tomasz - CEMPURA, G. - MIKULA, Marian - DUSZA, Ján - CZYRSKA-FILEMONOWICZ, Aleksandra. Nanohardness and tribological properties of nc-TiB₂ coatings. In Journal of the European Ceramic Society, 2013, vol.33, p.2347-2353. (2.360 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0955-2219.
- ADCA23 MEDVECKÝ, Ľubomír - SOPČÁK, Tibor - GIRMAN, V. - BRIANČIN, Jaroslav. Amorphous calcium phosphates synthesized by precipitation from calcium D-gluconate solutions. In Colloids and Surfaces A : Physicochemical and Engineering Aspects, 2013, vol. 417, p. 191-200. (2.108 - IF2012). (2013 - Current Contents). ISSN 0927-7757.
- ADCA24 MEDVECKÝ, Ľubomír - GIRETOVÁ, Mária - SOPČÁK, Tibor. Preparation and properties of tetracalcium phosphate-monetite biocement. In Materials Letters, 2013, vol. 100, p. 137-140. (2.224 - IF2012). (2013 - Current Contents). ISSN 0167-577X.
- ADCA25 NOVÁK, Pavel - MICHALCOVÁ, Alena - MAREK, Ivo - MUDROVÁ, Martina - SAKSL, Karel - BEDNARČÍK, J. - ZIKMUND, Petr - VOJTĚCH, Dalibor. On the formation of intermetallics in Fe-Al system - an in situ XRD study. In Intermetallics, 2013, vol. 32, p. 127-136. (1.857 - IF2012). (2013 - Current Contents). ISSN 0966-9795.
- ADCA26 ORIŇÁKOVÁ, Renáta - ORIŇÁK, Andrej - MARKUŠOVÁ BUČKOVÁ, Lucia - GIRETOVÁ, Mária - MEDVECKÝ, Ľubomír - LABBANCZOVÁ, Evelina - KUPKOVÁ, Miriam - HRUBOVČÁKOVÁ, Monika - KOVAL'Č, Karol. Iron based degradable foam structures for potential orthopedic applications. In International Journal of Electrochemical Science, 2013, vol. 8, p. 12451-12465. (2013 - Current Contents). ISSN 1452-3981.
- ADCA27 ORIŇÁKOVÁ, Renáta - ŠKANTÁROVÁ, Lenka - ORIŇÁK, Andrej - DEMKO, Jakub - KUPKOVÁ, Miriam - ANDERSSON, Jan T. Electrochemical deposition of SERS active nanostructured silver films. In International Journal of Electrochemical Science, 2013, vol. 8, p. 80-99. (2013 - Current Contents). ISSN 1452-3981.
- ADCA28 PARCHOVIANSKÝ, Milan - GALUSEK, Dušan - SEDLÁČEK, Jaroslav - ŠVANČÁREK, Peter - KAŠIAROVÁ, Monika - DUSZA, Ján - ŠAJGALÍK, Pavol. Microstructure and mechanical properties of hot pressed Al₂O₃/SiC nanocomposites. In Journal of the European Ceramic Society, 2013, vol. 33, p. 2291-2298. (2.360 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0955-2219.
- ADCA29 PETRYSHYNETS, Ivan - KOVÁČ, František - MARCIN, Jozef - ŠKORVÁNEK, Ivan. Magnetic properties of temper rolled NO FeSi steels with enhanced rotation texture. In IEEE Transactions on Magnetics, 2013, vol. 49, no. 7, p. 4303-4306. (1.422 - IF2012). (2013 - Current Contents). ISSN 0018-9464.
- ADCA30 PORWAL, Harshit - TATARKO, Peter - GRASSO, Salvatore - HU, Chunfeng - BOCCACCINI, Aldo - REECE, Michael J. Toughened and machinable glass matrix composites reinforced with graphene and graphene-oxide nano platelets. In Science

- and technology of advanced materials, 2013, vol. 14, 055007. (3.752 - IF2012). (2013 - Current Contents). ISSN 1468-6996.
- ADCA31 PUCHÝ, Viktor - HVIZDOŠ, Pavol - DUSZA, Ján - KOVÁČ, František - INAM, Fawad - REECE, Michael J. Wear resistance of Al₂O₃-CNT ceramic nanocomposites at room and high temperatures. In Ceramics International, 2013, vol. 39, p. 5821-5826. (1.789 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0272-8842.
- ADCA32 ROSENBERG, Gejza - SINAIOVÁ, Iveta - JUHÁR, Ľuboš. Effect of microstructure on mechanical properties of dual phase steels in the presence of stress concentrators. In Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing, 2013, vol. 582, p. 347-358. (2.108 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0921-5093.
- ADCA33 SAKSL, Karel - ROKICKI, Paweł - SIEMERS, Carsten - OSTROUSHKO, Dmytro - BEDNARČÍK, J. - RÜTT, U. Local structure of metallic chips examined by X-ray microdiffraction. In Journal of Alloys and Compounds, 2013, vol. 581, p. 579-584. (2.390 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0925-8388.
- ADCA34 STREČKOVÁ, Magdaléna - MEDVECKÝ, Ľubomír - FÜZER, J. - KOLLÁR, P. - BUREŠ, Radovan - FÁBEROVÁ, Mária. Design of novel soft magnetic composites based on Fe/resin modified with silica. In Materials Letters, 2013, vol. 101, p. 37-40. (2.224 - IF2012). (2013 - Current Contents). ISSN 0167-577X.
- ADCA35 TATARKO, Peter - KAŠIAROVÁ, Monika - DUSZA, Ján - ŠAJGALÍK, Pavol. Influence of rare-earth oxide additives on the oxidation resistance of Si₃N₄-SiC nanocomposites. In Journal of the European Ceramic Society, 2013, vol. 33, p. 2259-2268. (2.360 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0955-2219.
- ADCA36 TATARKO, Peter - KAŠIAROVÁ, Monika - CHLUP, Zdeněk - DUSZA, Ján - ŠAJGALÍK, Pavol - VÁVRA, Ivo. Influence of rare-earth oxide additives and SiC nanoparticles on the wear behaviour of Si₃N₄-based composites at temperatures up to 900 C. In Wear : an international journal on the science and technology of friction, lubrication and wear, 2013, vol. 300, p. 155-162. (1.262 - IF2012). (2013 - Current Contents). ISSN 0043-1648.

ADCB Scientific International Journals Indexed in Current Contents (Non-Impacted)

- ADCB01 LOFAJ, František - FERDINANDY, Milan - CEMPURA, G. - HORŇÁK, Peter - VNOUČEK, Milan. Transfer film in a friction contact in the nanocomposite WC-C coatings. In Journal of the Australian Ceramic Society, 2013, vol. 49, no. 1, p. 37-46. (0.164 - IF2012). (2013 - Current Contents). ISSN 0004-881X.

ADDA Scientific National Journals Indexed in Current Contents (Impacted)

- ADDA01 BESTERCI, Michal - VELGOSOVÁ, Oksana - IVAN, Jozef - HÁJOVSKÁ, Zuzana - SÜLLEIOVÁ, Katarína. Fracture mechanisms of Glidcop Cu-Al₂O₃ composite before and after ECAP observed by "in-situ tensile test in SEM". In Kovové materiály, 2013, vol. 51, no. 6, p. 383-387. (0.687 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0023-432X.
- ADDA02 HOMOLOVÁ, Viera - VÝROSTKOVÁ, Anna - ČIRIPOVÁ, Lucia - KROUPA, Aleš. Phase analysis of Fe-B-V system. In Kovové materiály, 2013, roč. 51, s. 135-139. (0.687 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0023-432X.

ADEA Scientific International Journals Non-Indexed in Current Contents (Impacted)

- ADEA01 FALAT, Ladislav - HOMOLOVÁ, Viera - KEPIČ, Ján - SVOBODA, Milan - VÝROSTKOVÁ, Anna. Microstructure and properties degradation of P/T 91, 92 steels weldments in creep conditions. In Journal of Mining and Metallurgy : Section B: Metallurgy, 2012, vol. 48, no. 3, p. 461-469. (2012 - WOS). ISSN 1450-5339.
- ADEA02 HLOCH, Sergej - FOLDYNA, Josef - SITEK, Libor - ZELENÁK, Michal - HLAVÁČEK, Petr - HVIZDOŠ, Pavol - KĽOC, Ján - MONKA, Peter - MONKOVÁ, Katarína - KOZAK, Dražan - MAGUROVÁ, Dagmara. Disintegration of bone cement by continuous and pulsating water jet. In Tehnički vjesnik - Technical Gazette : Scientific-professional journal of technical faculties of the University of Osijek, 2013, vol. 20, no. 4, p. 593-598. (0.601 - IF2012). ISSN 1330-3651.

ADEB Scientific International Journals Non-Indexed in Current Contents (Non-Impacted)

- ADEB01 BESTERCI, Michal - DOBEŠ, Ferdinand - SÜLLEIOVÁ, Katarína - VELGOSOVÁ, Oksana. Mechanical properties of Al-Al4C3 composite produced by mechanical alloying. In Universal Journal of Materials Science, 2013, vol. 1, no. 2, p. 31-38. ISSN www.hrpub.org.
- ADEB02 BUREŠ, Radovan - FÁBEROVÁ, Mária - STREČKOVÁ, Magdaléna - KOLLÁR, P. - FÜZER, J. Contribution to characterization of vitroperm based composites. In AASRI Procedia, 2012, vol. 3, p. 667-673. ISSN 2212-6716.
- ADEB03 DANKOVÁ, Zuzana - ŠTYRIAKOVÁ, Iveta - MOCKOVČIAKOVÁ, Annamária - ŠTYRIAK, Igor - OROLÍNOVÁ, Mária. Bioleaching as possible method of sorbent regeneration. In Bioengineering and Bioscience : Agriculture & Life Sciences, 2013, vol. 1, no. 3, p. 31-36. ISSN 2332-001X.
- ADEB04 DANKOVÁ, Zuzana - MOCKOVČIAKOVÁ, Annamária - OROLÍNOVÁ, Mária. Cd(II) Adsorption by Magnetic Clay Composite under the Ultrasound Irradiation. In Energy and Environmental Engineering, 2013, vol. 1, no. 2, p. 74-80.
- ADEB05 HVIZDOŠ, Pavol - KULU, Priit - BESTERCI, Michal. Tribological parameters of copper-alumina composite. In Key Engineering Materials, 2013, vol. 527, p. 191-196. (2013 - WOS, SCOPUS). ISSN 1013-9826.
- ADEB06 OROLÍNOVÁ, Mária - ĎURIŠIN, Juraj - ĎURIŠINOVÁ, Katarína - DANKOVÁ, Zuzana - ĎURIŠIN, Martin. Effect of microstructure on properties of Cu-Al₂O₃ nanocomposite. In Chemical and Materials Engineering, 2013, vol. 1, no. 2, p. 60-67.

ADFB Scientific National Journals Non-Indexed in Current Contents (Non-Impacted)

- ADFB01 BALKO, Ján - HVIZDOŠ, Pavol. Tribologické skúšanie keramiky 3Y-TZP merané metódou ball-on-disc. In Silikátnik, 2012, s. 63-69.
- ADFB02 BALKO, Ján - BALLÓKOVÁ, Beáta - JAKUBÉCZYOVÁ, Dagmar - HVIZDOŠ, Pavol - HLOCH, S. - KĽOC, Ján - MONKA, Peter. Wear and mechanical behaviour of various polymethylmethacrylate bone cements. In Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials, 2013, vol. 13, no. 1, p. 34-43. ISSN 1335-8978.
- ADFB03 BALKO, Ján - HVIZDOŠ, Pavol - BALÁZSI, Csaba. Wear damage in silicon nitride

- composites with graphene and carbon nanotubes. In Acta Metallurgica Slovaca Conference, 2013, vol. 3, p. 276-281. (2013 - SCOPUS). ISSN 1338-1660.
- ADFB04 BALLÓKOVÁ, Beáta - HVIZDOŠ, Pavol - BESTERCI, Michal. Indentation testing of MoSi₂ based composites. In Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials, 2013, vol. 13, no. 1, p. 29-33. ISSN 1335-8978.
- ADFB05 BALLÓKOVÁ, Beáta - KVAČKAJ, Tibor - HVIZDOŠ, Pavol - BESTERCI, Michal. Fracture analysis and local mechanical properties of copper processed by ECAR. In Acta Metallurgica Slovaca Conference, 2013, vol. 3, p. 259-263. (2013 - SCOPUS). ISSN 1338-1660.
- ADFB06 BL'ANDA, Marek - HVIZDOŠ, Pavol - DUSZA, Ján. Nanoindentation methods for the study of mechanical properties of brittle materials. In Silikátnik, 2012, s. 56-62.
- ADFB07 BL'ANDA, Marek - BALKO, Ján - DUSZOVÁ, Annamária - HVIZDOŠ, Pavol - DUSZA, Ján - REVERON, Helen. Hardness and indentation fracture toughness of alumina-silicon carbide nanocomposites. In Acta Metallurgica Slovaca Conference, 2013, vol. 3, p. 270-275. (2013 - SCOPUS). ISSN 1338-1660.
- ADFB08 BRUNCKOVÁ, Helena - MEDVECKÝ, Ľubomír - HVIZDOŠ, Pavol - ĎURIŠIN, Juraj. Microstructure of NaNbO₃ thin films prepared by sol-gel method on alumina and silicon substrates. In Acta Metallurgica Slovaca Conference, 2013, vol. 3, p. 114-119. (2013 - SCOPUS). ISSN 1338-1660.
- ADFB09 BUREŠ, Radovan - FÁBEROVÁ, Mária - KOLLÁR, P. - FÜZER, J. - STREČKOVÁ, Magdaléna. Microstructure and fracture of magnetic composites with vitroperm addition. In Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials, 2012, vol. 12, no. 3, p. 181-186. ISSN 1335-8978.
- ADFB10 FERDINANDY, Milan - LOFAJ, František - DUSZA, Ján - KOTTFER, Daniel. Povlaky karbidu volfrámu pripravované rozkladom W(CO)₆ metódou PE CVD. In Silikátnik, 2012, s. 70-75.
- ADFB11 FÜZER, Ján - FÜZEROVÁ, Jana - KOLLÁR, Peter - FÁBEROVÁ, Mária - BUREŠ, Radovan. Iron based soft magnetic compacted materials. In Acta electrotechnica et informatica, 2013, vol. 13, no. 1, p. 82-85. ISSN 1335-8243.
- ADFB12 GAVENDOVÁ, Petra - KOVÁČ, František - PETRYSHYNETS, Ivan - SOPKO, Martin - MOLNÁROVÁ, Mária. Nanohardness of grains of electrotechnical steel at elevated temperature. In Acta Metallurgica Slovaca, 2012, roč. 18, č. 4, s. 156-161. (2012 - SCOPUS). ISSN 1338-1156.
- ADFB13 HNATKO, Miroslav - KAŠIAROVÁ, Monika - GALUSKOVÁ, Dagmar - LENČÉŠ, Zoltán - ŠAJGALÍK, Pavol. Korózia konštrukčných keramických materiálov v tavenine železa. In Silikátnik, 2012, p. 23-44.
- ADFB14 HRUBOVČÁKOVÁ, Monika - DUDROVÁ, Eva - HRYHA, Eduard - KABÁTOVÁ, Margita. Processing conditions and reduction of oxides during sintering of chromium pre-alloyed steel. In Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials, 2012, vol. 12, no. 3, p. 144-158. ISSN 1335-8978.
- ADFB15 JAKUBÉCZYOVÁ, Dagmar - ŠTĚPÁNEK, Ivo. Indentation testing of thin and multilayered PVD coatings. In Transfer inovácií, 2013, no. 27, s. 62-67. ISSN 1337-7094.
- ADFB16 JAKUBÉCZYOVÁ, Dagmar - KOČÍK, Marek - HVIZDOŠ, Pavol. Application of fractography in assessment of composite layers. In Acta Metallurgica Slovaca Conference, 2013, vol. 3, p. 219-225. (2013 - SCOPUS). ISSN 1338-1660.
- ADFB17 KOTTFER, Daniel - FERDINANDY, Milan - KACZMAREK, Lukasz. The evaluation of selected properties of Ti and Cr based coatings deposited onto HSS CO5. In Acta Avionica, 2013, vol. 15, no. 26, p. 17-22. ISSN 1335-9479.

- ADFB18 KOTTFER, Daniel - FERDINANDY, Milan - HVIZDOŠ, Pavol - KACZMAREK, Lukasz. Comparative study of properties of Ti based coatings deposited by selected PVD techniques. In Materials Science and Technology : Internetový časopis, 2012, č. 2, s. 17-24. ISSN 1335-9053.
- ADFB19 KOVALČÍKOVÁ, Alexandra - DUSZA, Ján. Characteristics of fracture origins in SiC based ceramics. In Acta Metallurgica Slovaca Conference, 2013, vol. 3, p. 264-269. (2013 - SCOPUS). ISSN 1338-1660.
- ADFB20 KUPKOVÁ, Miriam - HRUBOVČÁKOVÁ, Monika - ORIŇÁKOVÁ, Renáta - MOROVSKÁ TUROŇOVÁ, Andrea - ZELEŇÁK, Adam. Corrosion properties of iron and iron-manganese sintered materials. In Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials, 2013, vol. 13, no. 1, p. 22-28. ISSN 1335-8978.
- ADFB21 KVETKOVÁ, Lenka - DUSZOVÁ, Annamária - KAŠIAROVÁ, Monika - DORČÁKOVÁ, Františka - DUSZA, Ján - BALÁZSI, Csaba. Fracture mechanism in Si₃N₄-graphene platelets composites. In Acta Metallurgica Slovaca Conference, 2013, vol. 3, p. 213-218. (2013 - SCOPUS). ISSN 1338-1660.
- ADFB22 MARCIN, Jozef - CAPIK, Marek - KOVÁČ, Jozef - ŠVEC, Peter - PETRYSHYNETS, Ivan - KOVÁČ, František - ŠKORVÁNEK, Ivan. Tuning of magnetic properties and domain structure in FeCo- and FeSi-based soft magnetic alloys by thermal processing under magnetic field. In Acta electrotechnica et informatica, 2013, vol. 13, no. 1, p. 91-94. ISSN 1335-8243.
- ADFB23 MEDVECKÝ, Ľubomír - GIRETOVÁ, Mária - ŠTULAJTEROVÁ, Radoslava. Chemical modification of hydroxyapatite ceramic surface by calcium phosphate coatings and in-vitro osteoblast response. In Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials, 2012, vol. 12, no. 4, p. 224-233. ISSN 1335-8978.
- ADFB24 ORIŇÁKOVÁ, Renáta - ORIŇÁK, Andrej - MARKUŠOVÁ BUČKOVÁ, Lucia - LABBANCZOVÁ, Evelina - KUPKOVÁ, Miriam - HRUBOVČÁKOVÁ, Monika - FEDORKOVÁ, Andrea. Biodegradable open cell iron foams for potential skeletal application. In Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials, 2012, vol. 12, no. 4, p. 219-223. ISSN 1335-8978.
- ADFB25 OROLÍNOVÁ, Mária - ĎURIŠIN, Juraj - ĎURIŠINOVÁ, Katarína - DANKOVÁ, Zuzana. Teplotná stabilita progresívneho Cu-Al₂O₃ materiálu. In EE - časopis pre elekrotechniku a energetiku, 2013, roč. 19, č. 3, s. 32-33. ISSN 1335-2547.
- ADFB26 PETRYSHYNETS, Ivan - KOVÁČ, František - SOPKO, Martin. The investigation of grain growth mechanisms in silicon steels. In Acta electrotechnica et informatica, 2013, vol. 13, no. 1, p. 74-77. ISSN 1335-8243.
- ADFB27 RODZIŇÁK, Dušan - ČERŇAN, Jozef - HVIZDOŠ, Pavol. Effect of TiCN coating on tribological properties of astaloy CrL sintered steel. In Journal of Manufacturing and Industrial Engineering, 2013, vol. 12, no. 3-4, p. 20-24. ISSN 1339-2972 (online).
- ADFB28 SELECKÁ, Marcela - ŠALAK, Andrej. Characteristics of sintered steels borided without halides - overview. In Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials, 2012, vol. 12, no. 4, p. 189-204. ISSN 1335-8978.
- ADFB29 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 Acta Metallurgica Slovaca Conference, 2013, vol. 3, p. 209-212. (2013 - SCOPUS). ISSN 1338-1660.
- ADFB30 SHYKULA, Petro - DUDROVÁ, Eva - FRYKHOLM, R. - BENGTSSON, Sven. Application of computational software for design and study new types of alloys. In

- Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials, 2013, vol. 13, no. 1, p. 3-10. ISSN 1335-8978.
- ADFB31** STREČKOVÁ, Magdaléna - FÁBEROVÁ, Mária - BUREŠ, Radovan - DUDROVÁ, Eva. Improvement of mechanical properties of SMC through different hybrid inorganic-organic insulating coatings. In Acta Metallurgica Slovaca Conference, 2013, vol. 3, p. 120-127. (2013 - SCOPUS). ISSN 1338-1660.
- ADFB32** SUŁOWSKI, Maciej - KABÁTOVÁ, Margita - DUDROVÁ, Eva. Effect of sintering, atmosphere on microstructure, properties and fracture of Cr-Mn sintering steels. In Acta Metallurgica Slovaca Conference, 2013, vol. 3, p. 237-246. (2013 - SCOPUS). ISSN 1338-1660.
- ADFB33** ZELENÁK, Adam - KUPKOVÁ, Miriam - GEORGIEV, Jordan S. - ORIŇÁKOVÁ, Renáta. Hardness of sintered PM materials with microgradients in composition. In Acta Metallurgica Slovaca Conference, 2013, vol. 3, p. 171-174. (2013 - SCOPUS). ISSN 1338-1660.

AEC Reviewed International Proceedings, Monographs

- AEC01** ACHIMOVICOVÁ, Marcela - BALÁŽ, Peter - ĎURIŠIN, Juraj - REČNIK, Aleksander - KOVÁČ, Jaroslav - ŠATKA, A. - FELDHOFF, Armin - GOCK, Eberhard. Mechanochemical synthesis of nanocrystalline lead selenide. 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. 126-129. ISBN 97881-87053-69-8.
- AEC02** BUREŠ, Radovan - FÁBEROVÁ, Mária - BIRČÁKOVÁ, Zuzana - FÜZER, J. - KOLLÁR, P. The influence of particles size on properties of Fe/resin soft magnetic composite. In Euro PM 2013 : International powder metallurgy congress and exhibition. Gothenburg, 15.-18.9.2013 [elektronický zdroj]. - Shrewsbury : EPMA, 2013. ISBN 978-1-899072-40-8. CD. CD ROM.
- AEC03** BUREŠ, Radovan - STREČKOVÁ, Magdaléna - FÁBEROVÁ, Mária - KABÁTOVÁ, Margita. Preparation and properties of Fe/MgO composites. In Euro PM 2013 : International powder metallurgy congress and exhibition. Gothenburg, 15.-18.9.2013 [elektronický zdroj]. - Shrewsbury : EPMA, 2013. ISBN 978-1-899072-40-8. CD. CD ROM.
- AEC04** KABÁTOVÁ, Margita - DUDROVÁ, Eva - FÜZER, J. - FÜZEROVÁ, Jana - KOLLÁR, P. Iron/SiO₂/shellac composites prepared by vacuum/pressure impregnation. In Euro PM 2013 : International powder metallurgy congress and exhibition. Gothenburg, 15.-18.9.2013 [elektronický zdroj]. - Shrewsbury : EPMA, 2013. ISBN 978-1-899072-40-8. CD. CD ROM.
- AEC05** KOTTFER, Daniel - MARTON, Marián - KUFFOVÁ, Mariana - FERDINANDY, Milan - KACZMAREK, Lukasz. Selected properties of carbon layers deposited onto Al alloy. In International conference on military technologies : ICMT 2013. Brno, 22.-23.5.2013. Eds. V. Krivanek, A. Stefek. - Brno : University of defence, 2013, p. 1571-1578. ISBN 978-80-7231-917.
- AEC06** ROSENBERG, Gejza - SINAIOVÁ, Iveta. Size of the deformation zones formed by drilling a hole and plastic zones around a crack tip formed during cycling and impact loading of the steels. In Strojírenská technologie : 5. ročník mezinárodní konference. Plzeň, 22.-23.1.2013. Ed. Vladimíra Kopečná. - Plzeň : Západočeská univerzita, 2013, cD. ISBN 978-80-261-0136-9.
- AEC07** SHVAB, Ruslan - DUDROVÁ, Eva - HVIZDOŠ, Pavol - BERGMAN, Ola - BENGTSSON, Sven. Comparison of high temperature properties of sintered and

- cast austenitic stainless steels with the same chemical composition. In Euro PM 2013 : International powder metallurgy congress and exhibition. Gothenburg, 15.-18.9.2013 [elektronický zdroj]. - Shrewsbury : EPMA, 2013. ISBN 978-1-899072-40-8. CD. CD ROM.
- AEC08 SHVAB, Ruslan - SHYKULA, Petro - DUDROVÁ, Eva - BERGMAN, Ola - BENGTSSON, Sven. Prediction of microstructure of high Cr-alloyed sintered steel by thermo-calc and JMatPro calculations. In Euro PM 2013 : International powder metallurgy congress and exhibition. Gothenburg, 15.-18.9.2013 [elektronický zdroj]. - Shrewsbury : EPMA, 2013. ISBN 978-1-899072-40-8. CD. CD ROM.
- AEC09 VÝROSTKOVÁ, Anna - PECHA, Jozef - FALAT, Ladislav - ČIRIPOVÁ, Lucia - SVOBODA, Milan - HOMOLOVÁ, Viera. Investigation of the T24 weld cracking in water walls. In IOC 2013 : 45th International october conference on mining and metallurgy. Bor Lake, Serbia, 16.-19.10.2013. Ed. N. Šrbac et al. - Belgrade : University of Belgrade, 2013, p. 463-466. ISBN 978-86-6305-012-9.

AED Reviewed National Proceedings, Monographs

- AED01 BALKO, Ján - HVIZDOŠ, Pavol - DUSZOVÁ, Annamária. Wear properties of alumina - silicon carbide composites. In Preparation of ceramic materials : 10th international conference. Herľany, 18.-20.6.2013. Eds. Beatrice Plešingerová et al. - Košice : Technical University of Košice, 2013, p. 108-109. ISBN 978-80-553-1424-2.
- AED02 BLANDA, Marek - HVIZDOŠ, Pavol - DUSZA, Ján. Nanoindentation study of aluminium oxide. In Preparation of ceramic materials : 10th international conference. Herľany, 18.-20.6.2013. Eds. Beatrice Plešingerová et al. - Košice : Technical University of Košice, 2013, p. 26-27. ISBN 978-80-553-1424-2.
- AED03 BRUNCKOVÁ, Helena - MEDVECKÝ, Ľubomír - ĎURIŠIN, Juraj. Effect of chelating agent on the phase transformation of La₁/3NbO₃ sol-gel precursors. In Preparation of ceramic materials : 10th international conference. Herľany, 18.-20.6.2013. Eds. Beatrice Plešingerová et al. - Košice : Technical University of Košice, 2013, p. 48-49. ISBN 978-80-553-1424-2.
- AED04 CHOBAL, O. - RIZAK, I. - CHOBAL, I. - KOVÁČ, František - GAVENDOVÁ, Petra - PETRYSHYNETS, Ivan - HOLOVEY, V. - RIZAK, V. Elastic and plastic properties of Li₂B₄O₇ determined by nanoindentation. In Materiály a technológie pre energetiku : Zborník z vedeckej konferencie. Košice, 25.3.2013. Eds. Ivan Škorvánek, Pavel Diko, Jozef Marcin. - Košice : ÚEF SAV, 2013, s. 90-93. ISBN 978-80-89656-00-4.
- AED05 DOMANICKÁ, Magdaléna - BODIŠOVÁ, Katarína - LENČÉŠ, Zoltán - VILČEKOVÁ, Zuzana - KAŠIAROVÁ, Monika - HNATKO, Miroslav - ŠAJGALÍK, Pavol. Preparation and characterization of porous silicon nitride for bioapplication. In Preparation of ceramic materials : 10th international conference. Herľany, 18.-20.6.2013. Eds. Beatrice Plešingerová et al. - Košice : Technical University of Košice, 2013, p. 60-61. ISBN 978-80-553-1424-2.
- AED06 HVIŠČOVÁ, Petra - LOFAJ, František - NOVÁK, Michal. Influence of pressure and bias on nanohardness of CrN coating. In Preparation of ceramic materials : 10th international conference. Herľany, 18.-20. 6. 2013. Eds. Beatrice Plešingerová et al. - Košice : Technical University of Košice, 2013, p. 24-25. ISBN 978-80-553-1424-2.
- AED07 KAŠIAROVÁ, Monika - MICHÁLKOVÁ, Monika - KOVALČÍKOVÁ, Alexandra - KVETKOVÁ, Lenka - ŠAJGALÍK, Pavol - DUSZA, Ján. Si₃N₄/graphene composites II: mechanical properties. In Preparation of ceramic materials : 10th

- AED08 international conference. Herľany, 18.-20.6.2013. Eds. Beatrice Plešingerová et al. - Košice : Technical University of Košice, 2013, p. 33. ISBN 978-80-553-1424-2.
KAŠIAROVÁ, Monika - TATARKO, Peter - CEMPURA, Grzegorz - CZYRSKA-FILEMONOWICZ, Aleksandra - DUSZA, Ján - ŠAJGALÍK, Pavol. TEM investigation of the influence of sintering additives on the location of SiC nanoparticles in the Si₃N₄-SiC composites. In Preparation of ceramic materials : 10th international conference. Herľany, 18.-20.6.2013. Eds. Beatrice Plešingerová et al. - Košice : Technical University of Košice, 2013, p. 106-107. ISBN 978-80-553-1424-2.
- AED09 KOVÁČ, František - PETRYSHYNETS, Ivan - ŠKORVÁNEK, Ivan - MARCIN, Jozef - SOPKO, Martin. Unconventional method of grain - oriented preparation in combination with nano particles VC and strain induced grain boundary motion. In Materiály a technológie pre energetiku : Zborník z vedeckej konferencie. Košice, 25.3.2013. Eds. Ivan Škorvánek, Pavel Diko, Jozef Marcin. - Košice : ÚEF SAV, 2013, s. 55-61. ISBN 978-80-89656-00-4.
- AED10 KOVÁČ, František - PETRYSHYNETS, Ivan - PETROV, Branislav - GAVENDOVÁ, Petra - SOPKO, Martin. The use of deformation-induced grain boundary motion to improve the efficiency of electrical motors. In Materiály a technológie pre energetiku : Zborník z vedeckej konferencie. Košice, 25.3.2013. Eds. Ivan Škorvánek, Pavel Diko, Jozef Marcin. - Košice : ÚEF SAV, 2013, s. 80-85. ISBN 978-80-89656-00-4.
- AED11 KOVÁČ, František - PETRYSHYNETS, Ivan - MOLNÁROVÁ, Mária - PETROV, Branislav. Dizajn mikroštruktúry vysokopevných elektrotechnických ocelí. In Materiály a technológie pre energetiku : Zborník z vedeckej konferencie. Košice, 25.3.2013. Eds. Ivan Škorvánek, Pavel Diko, Jozef Marcin. - Košice : ÚEF SAV, 2013, s. 86-89. ISBN 978-80-89656-00-4.
- AED12 KOVAL', Vladimír - ŠKORVÁNEK, Ivan - ĎURIŠIN, Juraj - CSACH, Kornel. Synthesis and multiferroic properties of rare-earth substituted BiFeO₃ ceramics. In Preparation of ceramic materials : 10th international conference. Herľany, 18.-20.6.2013. Eds. Beatrice Plešingerová et al. - Košice : Technical University of Košice, 2013, p. 112-113. ISBN 978-80-553-1424-2.
- AED13 KOVALČÍKOVÁ, Alexandra - KUREK, Pavol - DUSZA, Ján - ŠAJGALÍK, Pavol - MIHALIKOVÁ, Mária, Ing., PhD. Effect of the counterpart material on wear characteristics of silicon carbide ceramics. In Preparation of ceramic materials : 10th international conference. Herľany, 18.-20.6.2013. Eds. Beatrice Plešingerová et al. - Košice : Technical University of Košice, 2013, p. 36-37. ISBN 978-80-553-1424-2.
- AED14 LOFAJ, František. Optimization of mechanical properties of WC-C based coatings deposited by DC and high power impulse magnetron sputtering. In Preparation of ceramic materials : 10th international conference. Herľany, 18.-20.6.2013. Eds. Beatrice Plešingerová et al. - Košice : Technical University of Košice, 2013, p. 28-29. ISBN 978-80-553-1424-2.
- AED15 MEDVECKÝ, Ľubomír - GIRETOVÁ, Mária - ŠTULAJTEROVÁ, Radoslava. In-vitro characterization of surface treated hydroxyapatite ceramic substrates. In Preparation of ceramic materials : 10th international conference. Herľany, 18.-20.6.2013. Eds. Beatrice Plešingerová et al. - Košice : Technical University of Košice, 2013, p. 120-121. ISBN 978-80-553-1424-2.
- AED16 MICHÁLKOVÁ, Monika - KAŠIAROVÁ, Monika - ŠAJGALÍK, Pavol. Si₃N₄/graphene composites I: different methods of preparation. In Preparation of ceramic materials : 10th international conference. Herľany, 18.-20.6.2013. Eds. Beatrice Plešingerová et al. - Košice : Technical University of Košice, 2013, p. 32.

- AED17 ISBN 978-80-553-1424-2.
NOVÁK, Michal - LOFAJ, František - HVIŠČOVÁ, Petra. The influence of amplitude and loading rate during dynamic mechanical analysis on nanohardness of thin W-C coatings. In Preparation of ceramic materials : 10th international conference. Herľany, 18.-20.6.2013. Eds. Beatrice Plešingerová et al. - Košice : Technical University of Košice, 2013, p. 30-31. ISBN 978-80-553-1424-2.
- AED18 PARCHOVIANSKÝ, Milan - GALUSEK, Dušan - SEDLÁČEK, Jaroslav - ŠVANČÁREK, Peter - KAŠIAROVÁ, Monika - DUSZA, Ján - ŠAJGALÍK, Pavol. Microstructure, mechanical and functional properties and creep behavior of hot pressed Al₂O₃/SiC micro/nano composites. In Preparation of ceramic materials : 10th international conference. Herľany, 18.-20.6.2013. Eds. Beatrice Plešingerová et al. - Košice : Technical University of Košice, 2013, p. 38-39. ISBN 978-80-553-1424-2.
- AED19 ROSENBERG, Gejza - SINAIOVÁ, Iveta - JUHÁR, Ľuboš. Deformation zone size around drilled hole in DP steels. In Degradácia konštrukčných materiálov 2013 : 13. vedecká konferencia so zahraničnou účasťou. Zuberec-Roháče, 4.-6.9.2013. - Žilina : Strojnícka fakulta ŽU, 2013, s. 96-101. ISBN 978-80-554-0741-8.
- AED20 ROSENBERG, Gejza - SINAIOVÁ, Iveta - KOČÍK, Marek - JUHÁR, Ľuboš - KUNDRACIK, Vladimír. Lokálne únavové vlastnosti ocelí určených pre výrobu autokolies. In Degradácia konštrukčných materiálov 2013 : 13. vedecká konferencia so zahraničnou účasťou. Zuberec-Roháče, 4.-6.9.2013. - Žilina : Strojnícka fakulta ŽU, 2013, s. 244-249. ISBN 978-80-554-0741-8.
- AED21 SOPČÁK, Tibor - MEDVECKÝ, Ľubomír. Characterization and synthesis of nanocrystalline CaSiO₃ by precipitation from calcium lactate and sodium metasilicate precursors. In Preparation of ceramic materials : 10th international conference. Herľany, 18.-20.6.2013. Eds. Beatrice Plešingerová et al. - Košice : Technical University of Košice, 2013, p. 110-111. ISBN 978-80-553-1424-2.
- AED22 VILČEKOVÁ, Zuzana - KAŠIAROVÁ, Monika - BODIŠOVÁ, Katarína - DOMANICKÁ, Magdaléna - ŠAJGALÍK, Pavol. Study of the preparation methods and their influence on the mechanical properties of porous Si₃N₄ biomaterials. In Preparation of ceramic materials : 10th international conference. Herľany, 18.-20.6.2013. Eds. Beatrice Plešingerová et al. - Košice : Technical University of Košice, 2013, p. 114-115. ISBN 978-80-553-1424-2.

AEE Non-Reviewed International Proceedings, Monographs

- AEE01 DŽUPON, Miroslav - SPIŠÁK, Emil - JAKUBÉCZYOVÁ, Dagmar. Porušenie povlakov tenkých pocínovaných oceľových plechov. In Vrstvy a povlaky 2013 : Zborník prednášok. Rožnov pod Radhoštěm, 30.9.-1.10.2013. - Plzeň : Západočeská univerzita, 2013, p. 23-26. ISBN 978-80-970824-2-0.
- AEE02 FALAT, Ladislav - VÝROSTKOVÁ, Anna - SVOBODA, Milan - BURŠÍK, Jiří. Vplyv podmienok tepelného spracovania po zváraní na štruktúru a creepovú životnosť heterogénnych zvarových spojov ocele T92. In Kotle a energetická zařízení : Sborník příspěvků. Brno, 18.-20.3.2013 [elektronický zdroj]. - B.V., 2013. ISSN 1804-6673. CD. CD ROM.
- AEE03 HORNÁK, Peter - FERDINANDY, Milan - LOFAJ, František. Vplyv prídavných plynov na mechanické vlastnosti PECVD WC/C povlakov. In Vrstvy a povlaky 2013 : Zborník prednášok. Rožnov pod Radhoštěm, 30.9.-1.10.2013. - Plzeň : Západočeská univerzita, 2013, p. 33-37. ISBN 978-80-970824-2-0.
- AEE04 HRUBOVČÁKOVÁ, Monika - KUPKOVÁ, Miriam - KOVAL', Karol -

- ORIŇÁKOVÁ, Renáta - FEDORKOVÁ, Andrea. Biologicky odbúrateľné celulárne materiály pripravené z fosfátovaného železného prášku. In Vrstvy a povlaky 2013 : Zborník prednášok. Rožnov pod Radhoštěm, 30.9.-1.10.2013. - Plzeň : Západočeská univerzita, 2013, p. 45-48. ISBN 978-80-970824-2-0.
- AEE05 JAKUBÉCZYOVÁ, Dagmar - ŠTĚPÁNEK, Ivo - DŽUPON, Miroslav. Štúdium porušovania tenkých viaczložkových PVD vrstiev. In Vrstvy a povlaky 2013 : Zborník prednášok. Rožnov pod Radhoštěm, 30.9.-1.10.2013. - Plzeň : Západočeská univerzita, 2013, p. 55-60. ISBN 978-80-970824-2-0.
- AEE06 JAKUBÉCZYOVÁ, Dagmar - KOČÍK, Marek - HVIZDOŠ, Pavol. A study of PVD mono- and multicomponent thin coatings for tools applications. In METAL 2013 : 22. ročník mezinárodní konference metalurgie a materiálů. Brno, 15.-17.5.2013. - Brno : TANGER, spol. s r.o., 2013. ISBN 978-80-87294-39-0. Názov z CD. CD ROM.
- AEE07 KOTTFER, Daniel - MARTON, Marián - HORŇÁK, Peter - BALKO, Ján - FERDINANDY, Milan - KACZMAREK, Lukasz. Vybrané vlastnosti uhlíkovej vrstvy deponovanej na Al zliatinu metódou DC CVD. In Vrstvy a povlaky 2013 : Zborník prednášok. Rožnov pod Radhoštěm, 30.9.-1.10.2013. - Plzeň : Západočeská univerzita, 2013, p. 71-75. ISBN 978-80-970824-2-0.
- AEE08 KUPKOVÁ, Miriam - ORIŇÁKOVÁ, Renáta - KLADEKOVÁ, Daniela - FEDORKOVÁ, Andrea - HRUBOVČÁKOVÁ, Monika. Korózne vlastnosti kompaktov pripravených zo železných častíc povlečených vrstvou PMMA. In Vrstvy a povlaky 2013 : Zborník prednášok. Rožnov pod Radhoštěm, 30.9.-1.10.2013. - Plzeň : Západočeská univerzita, 2013, p. 85-88. ISBN 978-80-970824-2-0.
- AEE09 OSTROUSHKO, Dmytro - MAZANCOVÁ, Eva - SAKSL, Karel. Phase analysis explosive welded Ti-Cr/Ni steel in as-received state and after heat treatment using synchrotron (BW-5). In METAL 2013 : 22. ročník mezinárodní konference metalurgie a materiálů. Brno, 15.-17.5.2013. - Brno : TANGER, spol. s r.o., 2013. ISBN 978-80-87294-39-0. Názov z CD. CD ROM.
- AEE10 PETRYSHNETS, Ivan - KOVÁČ, František - SOPKO, Martin. An improved processing technique for preparation of non-oriented electrical steels with enhanced rotation texture. In HighMatTech 2013 : 4th international conference. Proceedings of the conference. Kiev, 7.-11.10.2013. - Kiev : National Academy of Science of Ukraine, 2013, p. 120.
- AEE11 VÝROSTKOVÁ, Anna - MACKO, Roman - BLACH, Juraj - ČIRIPOVÁ, Lucia. Comparison of the heat affected zones and base metals of 0.5-9 %Cr steels to hydrogen embrittlement sensitivity. In METAL 2013 : 22. ročník mezinárodní konference metalurgie a materiálů. Brno, 15.-17.5.2013. - Brno : TANGER, spol. s r.o., 2013. ISBN 978-80-87294-39-0. Názov z CD. CD ROM.

AEF Non-Reviewed National Proceedings, Monographs

- AEF01 HVIŠČOVÁ, Petra - LOFAJ, František - NOVÁK, Michal - LATTOVÁ, Anna. Vplyv tlaku a dodatočných plynov na tvrdosť W-C povlakov pripravovaných DC magnetronovým naprašovaním. In SEMDOK 2013 : 18th international of PhD. students' seminar. Terchová, 30.1.-1.2.2013. - Žilina : University of Žilina, 2013, p. 162-166. ISBN 978-80-554-0629-9.
- AEF02 NOVÁK, Michal - LOFAJ, František - HVIŠČOVÁ, Petra. Inštrumentovaná indentácia tvrdých tenkých povlakov na báze W-C. In SEMDOK 2013 : 18th international of PhD. students' seminar. Terchová, 30.1.-1.2.2013. - Žilina :

- University of Žilina, 2013, p. 140-145. ISBN 978-80-554-0629-9.
- AEF03 ROSENBERG, Gejza - SINAIOVÁ, Iveta - KOČÍK, Marek. Vplyv hrúbky a iných geometrických charakteristik vzoriek na deformačné a lomové vlastnosti ocelí pri rázovom zaťažovaní. In Transfer 2013 : 14. medzinárodná vedecká konferencia. Trenčianske Teplice, 17.-18.10.2013 [elektronický zdroj]. - Trenčín : Alexander Dubček University, 2013. ISBN 978-80-8075-607-9. Názov z CD. CD ROM.
- AEF04 SHVAB, Ruslan - HRYHA, Eduard - DUDROVÁ, Eva - BERGMAN, Ola - BENGTSSON, Sven. X-ray photoelectron spectroscopy surface analysis of high chromium alloyed steel powder. In SEMDOK 2013 : 18th International of PhD. students' seminar. Terchová, 30.1.-1.2.2013. - Žilina : University of Žilina, 2013, p. 66-69. ISBN 978-80-554-0629-9.
- AEF05 VILČEKOVÁ, Zuzana - KAŠIAROVÁ, Monika - DUSZA, Ján - BODIŠOVÁ, Katarína - ŠAJGALÍK, Pavol. Štúdium mechanických vlastností Si₃N₄ biomateriálov porovnávané s ľudskou trabekulárnou kostou. In SEMDOK 2013 : 18th international of PhD. students' seminar. Terchová, 30.1.-1.2.2013. - Žilina : University of Žilina, 2013, p. 156-161. ISBN 978-80-554-0629-9.

AFC Publications of the International Scientific Conferences

- AFC01 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 steels. In EPJ Web of Conferences, 2013, vol. 40, art. no. 17006. (2013 - SCOPUS). ISSN 2100-014X.

AFE Abstracts of the Invited Publications of the International Scientific Conferences

- AFE01 ŠAJGALÍK, Pavol - HNATKO, Miroslav - LENČÉŠ, Zoltán - GALL, Marián - DUSZA, Ján - TATARCO, Peter - CHLUP, Zdeněk. GB chemistry of silicon nitride based nano-composites - implications to mechanical, tribological and chemical properties. In ISAC-5. 5th international symposium on advanced ceramics, Wuhan, China, december 9-12, 2013 : program and abstracts. - Japan : The Japan Society for the Promotion of Science, 2013, p. 47-48.

AFFA Abstracts of the Invited Publications of the International Scientific Conferences held in the SR

- AFFA01 DUSZA, Ján. Silicon nitride + graphene platelet nanocomposites. In NANOVED 2013 & NANO INFO DAY : 6th International Conference on Nanosciences, Nanotechnologies, Nanomaterials and NANO INFO DAY of the Nanoforce Project. Svit, 22.-25.9.2013. - Brno : TRIBUN EU, 2013, p. O-18. ISBN 978-80-263-0511-8.

AFFB Abstracts of the Invited Publications of the National Scientific Conferences

- AFFB01 FÜZER, J. - FÜZEROVÁ, Jana - KOLLÁR, P. - LAUDA, M. - DOBÁK, S. - STREČKOVÁ, Magdaléna - FÁBEROVÁ, Mária - BUREŠ, Radovan - KABÁTOVÁ, Margita - DUDROVÁ, Eva. Permeabilita kompozitných materiálov na báze železa. In Progresívne magnetické materiály : Zborník abstraktov. Košice, 25.10.2013. - Košice : Ústav materiálového výskumu SAV, 2013, s. 8. ISBN 978-80-970964-6-5.

- AFFB02 FÜZEROVÁ, Jana - FÜZER, J. - KOLLÁR, P. - LAUDA, M. - BIRČÁKOVÁ, Zuzana - STREČKOVÁ, Magdaléna - FÁBEROVÁ, Mária - BUREŠ, Radovan - KABÁTOVÁ, Margita - DUDROVÁ, Eva. Elektrický odpor a koercivita kompozitných materiálov na báze železa. In Progresívne magnetické materiály : Zborník abstraktov. Košice, 25.10.2013. - Košice : Ústav materiálového výskumu SAV, 2013, s. 7. ISBN 978-80-970964-6-5.
- AFFB03 KOLLÁR, P. - VOJTEK, V. - BIRČÁKOVÁ, Zuzana - FÜZER, J. - FÁBEROVÁ, Mária - BUREŠ, Radovan. Magnetické vlastnosti kompozitných materiálov pri premagnetovaní v kvazistatickom režime. In Progresívne magnetické materiály : Zborník abstraktov. Košice, 25.10.2013. - Košice : Ústav materiálového výskumu SAV, 2013, s. 6. ISBN 978-80-970964-6-5.
- AFFB04 KOVÁČ, František - PETRYSHYNETS, Ivan. Dizajn a evolúcia nekonvenčných mikroštruktúr v elektrotechnických oceliach. In Progresívne magnetické materiály : Zborník abstraktov. Košice, 25.10.2013. - Košice : Ústav materiálového výskumu SAV, 2013, s. 13. ISBN 978-80-970964-6-5.

AFG Abstracts of the Publications of the International Scientific Conferences

- AFG01 BALKO, Ján - HVIZDOŠ, Pavol - CÓRDOBA, J.M. - CHICARDI, E. Instrumented indentation of composite materials prepared by methods of mechanochemistry. In Local mechanical properties 2013. LMP 2013 : 10th international conference. Book of abstracts. Kutná Hora, 6.-8.11.2013. - Praha : ČVUT, 2013, p. 45. ISBN 978-80-01-05374-4.
- AFG02 BIRČÁKOVÁ, Zuzana - KOLLÁR, Peter - FÜZER, Ján - BUREŠ, Radovan - FÁBEROVÁ, Mária. Influence of interaction between magnetic particles on the energy losses of iron-based composite materials. In Soft Magnetic Materials 21. SMM 21 : Conference program and book of abstracts. Budapest, 1.-4.9.2013. - B.V., 2013.
- AFG03 BLANDA, Marek - CSANÁDI, Tamás - DUSZOVÁ, Annamária - HVIZDOŠ, Pavol - DUSZA, Ján. Nanoindentation study on tungsten carbide crystals in WC-Co hardmetal in comparison with AFM measurements. In Local mechanical properties 2013. LMP 2013 : 10th international conference. Book of abstracts. Kutná Hora, 6.-8.11.2013. - Praha : ČVUT, 2013, p. 61. ISBN 978-80-01-05374-4.
- AFG04 DUSZOVÁ, Annamária - HVIZDOŠ, Pavol - LOFAJ, František - DUSZA, Ján. Indentation fatigue of WC-Co cemented carbides. In Materials structure and micromechanics of fracture : 7th international conference. MSMF7. Abstract booklet. Brno, 1.-3.7.2013. - Brno : University of Technology, 2013, p. 167. ISBN 978-80-214-4739-4.
- AFG05 FEDORKOVÁ, Andrea - ORIŇÁKOVÁ, Renáta - ORIŇÁK, Andrej - KUPKOVÁ, Miriam - WIEMHÖFER, H.-D. - AUDINOT, Jean Nicolas - GUILLOT, J. Electrochemical and XPS studies of PPy/PEG LiFePO₄ cathode material. In 13th ABAF : Advanced Batteries, Accumulators and Fuel Cells. International Conference. Brno, 26.-30.8.2012. - Brno : University of Technology, 2012, p. 29. ISBN 978-80-214-4570-3.
- AFG06 HVIŠČOVÁ, Petra - LOFAJ, František - NOVÁK, Michal. Nanohardness of CrN coatings vs. deposition parameters. In Local mechanical properties 2013. LMP 2013 : 10th international conference. Book of abstracts. Kutná Hora, 6.-8.11.2013. - Praha : ČVUT, 2013, p. 54. ISBN 978-80-01-05374-4.
- AFG07 HVIZDOŠ, Pavol - JAKUBÉCZYOVÁ, Dagmar - HLOCH, S. - KĽOC, Ján - BALKO, Ján - MONKA, Peter. Local mechanical properties of various bone

- cements. In Materials structure and micromechanics of fracture : 7th international conference. MSMF7. Abstract booklet. Brno, 1.-3.7.2013. - Brno : University of Technology, 2013, p. 201. ISBN 978-80-214-4739-4.
- AFG08 KAŠIAROVÁ, Monika - GALUSKOVÁ, Dagmar - GAALOVÁ, Petra - VILČEKOVÁ, Zuzana - GALUSEK, D. Corrosion behaviour of human teeth measured by nanoindentation method. In Local mechanical properties 2013. LMP 2013 : 10th international conference. Book of abstracts. Kutná Hora, 6.-8.11.2013. - Praha : ČVUT, 2013, p. 68. ISBN 978-80-01-05374-4.
- AFG09 KAŠIAROVÁ, Monika - GALUSKOVÁ, Dagmar - GALUSEK, D. Corrosion resistance of dental replacements measured by nanoindentation. In EUROMAT 2013 : European Congress and Exhibition on Advanced Materials and Processes. Sevilla, 8.-13.9.2013. - London : FEMS, 2013.
- AFG10 KAŠIAROVÁ, Monika - TATARCO, Peter - BURÍK, Peter - DUSZA, Ján - ŠAJGALÍK, Pavol. Thermal shock resistance of Si₃N₄-SiC composites sintered with rare earth oxide additives. In ECERS XIII. 13th conference of the European ceramic society, june 23-27, 2013 : book of abstracts. - France, 2013, p. 503.
- AFG11 KAŠIAROVÁ, Monika - MICHÁLKOVÁ, Monika - KOVALČÍKOVÁ, Alexandra - KVETKOVÁ, Lenka - ŠAJGALÍK, Pavol - DUSZA, Ján. Mechanical properties of Si₃N₄-graphene multiplatelets prepared by different processing routes. In EUROMAT 2013 : European Congress and Exhibition on Advanced Materials and Processes. Sevilla, 8.-13.9.2013. - London : FEMS, 2013. Názov z USB. USB.
- AFG12 KOVÁČ, František - PETRYSHYNETS, Ivan - SOPKO, Martin. Influence of new system nano inhibitors on the abnormal grain growth with goss crystallographic orientation in silicon steels. In THERMEC 2013 : International conference on processing and manufacturing of advanced materials. Book of abstracts. Las Vegas, USA, 2.-6.12.2013. - B.V., 2013, p. 332.
- AFG13 KOVÁČ, František - PETRYSHYNETS, Ivan - MARCIN, Jozef - ŠKORVÁNEK, Ivan. Effect of VC nano - inhibitors and dynamic continuous annealing on the magnetic properties of GO steels. In 12th Joint MMM-Intermag Conference : Abstracts. Chicago, USA, 14.-18.1.2013. - Internet, 2013, p. 223.
- AFG14 KOVAL', Vladimír - ŠKORVÁNEK, Ivan - YAN, H. - MITOSERIU, L. - REECE, Michael J. Effect of rare earth substitution on structural and multiferroic properties of BiFeO₃ ceramics. In Single and multiphase ferroics and multiferroics with restricted geometries : Abstracts of workshop of COST action MP0904: Advances in ferroelectrics and multiferroics. Praha, 20.-21.7.2013. - Praha : FÚ AV ČR, 2013, p. 42.
- AFG15 KOVAL', Vladimír - ŠKORVÁNEK, Ivan - YAN, H. - ĎURIŠIN, Juraj - STREČKOVÁ, Magdaléna - REECE, Michael J. Microstructure and properties of Dy- and Tb- substituted BiFeO₃ ceramics. In EUROMAT 2013 : European Congress and Exhibition on Advanced Materials and Processes. Sevilla, 8.-13.9.2013. - London : FEMS, 2013. Názov z USB. USB.
- AFG16 KOVALČÍKOVÁ, Alexandra - DUSZA, Ján - BL'ANDA, Marek. Influence of the microstructure on macro versus nano-hardness and fracture toughness of SiC ceramics. In Local mechanical properties 2013. LMP 2013 : 10th international conference. Book of abstracts. Kutná Hora, 6.-8.11.2013. - Praha : ČVUT, 2013, p. 42. ISBN 978-80-01-05374-4.
- AFG17 LAUDA, M. - FÜZER, J. - FÜZEROVÁ, Jana - KOLLÁR, P. - STREČKOVÁ, Magdaléna - BUREŠ, Radovan. Analysis of the magnetic losses in the iron-silicon soft magnetic composites. In Soft Magnetic Materials 21. SMM 21 : Conference program and book of abstracts. Budapest, 1.-4.9.2013. - B.V., 2013.

- AFG18 LOFAJ, František - HVIŠČOVÁ, Petra - NOVÁK, Michal. Nanoindentation, nanoscratching and nanotribology of CrN coatings. In Local mechanical properties 2013. LMP 2013 : 10th international conference. Book of abstracts. Kutná Hora, 6.-8.11.2013. - Praha : ČVUT, 2013, p. 55. ISBN 978-80-01-05374-4.
- AFG19 NOVÁK, Michal - LOFAJ, František - HVIŠČOVÁ, Petra. The effects of regime, frequency, amplitude and loading rate on depth profiles of nanohardness in thin W-C coatings. In Nanomeasure 2013 : Abstract book. Warsaw, 24.-25.6.2013. - B.V., 2013, p. 58-59.
- AFG20 NOVÁK, Michal - LOFAJ, František - HVIŠČOVÁ, Petra. The influence of indentation conditions on nanohardness depth profiles of W-C based coatings. In Local mechanical properties 2013. LMP 2013 : 10th international conference. Book of abstracts. Kutná Hora, 6.-8.11.2013. - Praha : ČVUT, 2013, p. 58. ISBN 978-80-01-05374-4.
- AFG21 OSTROUSHKO, Dmytro - MAZANCOVÁ, Eva - SAKSL, Karel - ĎURIŠIN, Martin - MILKOVIČ, Ondrej - MICHALIK, Štefan - GAMCOVÁ, Jana. Phase composition of explosive welded clad materials. In Photon science 2012 : Highlights and annual report. Hamburg, 2012. - Hamburg : DESY, 2012.
- AFG22 PARCHOVIANSKÝ, Milan - GALUSEK, Dušan - SEDLÁČEK, Jaroslav - ŠVANČÁREK, Peter - KAŠIAROVÁ, Monika - DUSZA, Ján - ŠAJGALÍK, Pavol. Microstructure, mechanical properties and creep behavior of hot pressed Al₂O₃/SiC micro/nano composites. In ECERS XIII. 13th conference of the European ceramic society, june 23-27, 2013 : book of abstracts. - France, 2013, p. 848.
- AFG23 PETRYSHYNETS, Ivan - KOVÁČ, František - SOPKO, Martin - MARCIN, Jozef. Study of microstructure and texture evolution in grain-oriented steels via coercivity measurements. In Soft Magnetic Materials 21. SMM 21 : Conference program and book of abstracts. Budapest, 1.-4.9.2013. - B.V., 2013, p. 108.
- AFG24 PETRYSHYNETS, Ivan - KOVÁČ, František - MARCIN, Jozef - ŠKORVÁNEK, Ivan. The magnetic properties of temper rolled NO FeSi steels with enhanced rotating cube texture. In 12th Joint MMM-Intermag Conference : Abstracts. Chicago, USA, 14.-18.1.2013. - Internet, 2013, p. 353.
- AFG25 SHVAB, Ruslan - HVIZDOŠ, Pavol - DUDROVÁ, Eva - BERGMAN, Ola - BENGTSSON, Sven. Nanoindentation characterization of mechanical properties of cast and sintered high Cr-alloyed steel. In Nanomeasure 2013 : Abstract book. Warsaw, 24.-25.6.2013. - B.V., 2013, p. 61-62.
- AFG26 SHVAB, Ruslan - DUDROVÁ, Eva - BERGMAN, Ola - BENGTSSON, Sven. The influence of microstructure of high cr-alloyed steel on high temperature oxidation resistance. In PPM 2013 : The abstracts of the 1st porous and powder materials symposium and exhibition. Izmir, 3.-6.9.2013. - B.V., 2013, p. 203.
- AFG27 SHVAB, Ruslan - DUDROVÁ, Eva - BERGMAN, Ola - BENGTSSON, Sven. High temperature corrosion of high Cr-alloyed sintered and cast austenitic stainless steels in exhaust gas atmosphere. In EUROMAT 2013 : European Congress and Exhibition on Advanced Materials and Processes. Sevilla, 8.-13.9.2013. - London : FEMS, 2013. Názov z USB. USB.
- AFG28 STREČKOVÁ, Magdaléna - BUREŠ, Radovan - FÁBEROVÁ, Mária - FÜZER, J. - KOLLÁR, P. Characterization of soft magnetic materials based on different magnetic particles and modified phenolic resin. In EUROMAT 2013 : European Congress and Exhibition on Advanced Materials and Processes. Sevilla, 8.-13.9.2013. - London : FEMS, 2013. Názov z USB. USB.
- AFG29 VILČEKOVÁ, Zuzana - KAŠIAROVÁ, Monika - BODIŠOVÁ, Katarína - DOMANICKÁ, Magdaléna - ŠAJGALÍK, Pavol - GROMOŠOVÁ, Silvia. Study of

- mechanical properties of silicon nitride biomaterials used as artificial substitution of human trabecular bone. In Nanomeasure 2013 : Abstract book. Warsaw, 24.-25.6.2013. - B.V., 2013, p. 56-57.
- AFG30 VILČEKOVÁ, Zuzana - KAŠIAROVÁ, Monika - DOMANICKÁ, Magdaléna - ŠAJGALÍK, Pavol. Determination of local mechanical properties of Si₃N₄ based foams. In Local mechanical properties 2013. LMP 2013 : 10th international conference. Book of abstracts. Kutná Hora, 6.-8.11.2013. - Praha : ČVUT, 2013, p. 71. ISBN 978-80-01-05374-4.
- AFG31 VILČEKOVÁ, Zuzana - KAŠIAROVÁ, Monika - BODIŠOVÁ, Katarína - HNATKO, Miroslav - DUSZA, Ján - ŠAJGALÍK, Pavol. Mechanical properties of porous Si₃N₄ ceramics used for bioapplication. In ECERS XIII. 13th conference of the European ceramic society, june 23-27, 2013 : book of abstracts. - France, 2013, p. 324.
- AFG32 ZELEŇÁK, Adam - KUPKOVÁ, Miriam - HRUBOVČÁKOVÁ, Monika. Hardness of sintered biodegradable materials based on iron powders. In Local mechanical properties 2013. LMP 2013 : 10th international conference. Book of abstracts. Kutná Hora, 6.-8.11.2013. - Praha : ČVUT, 2013, p. 56. ISBN 978-80-01-05374-4.

AFHA Abstracts of the Publications of the International Scientific Conferences held in the SR

- AFHA01 BIRČÁKOVÁ, Zuzana - KOLLÁR, P. - VOJTEK, V. - BUREŠ, Radovan - FÁBEROVÁ, Mária. Influence of vitroperm content on the energy losses in composite materials based on the mixture of two ferromagnets. In CSMAG '13 : 15th Czech and Slovak conference on magnetism. Abstracts. Košice, 17.-21.6.2013. - Košice : PF UPJŠ, 2013, p. 110. ISBN 978-80-8152-015-0.
- AFHA02 BRZÓZKA, K. - SOVÁK, Pavol - SZUMIATA, T. - KOLLÁR, P. - FÜZER, J. - FÁBEROVÁ, Mária - BUREŠ, Radovan - GÓRKA, B. - GAWROŃSKI, M. - GZIK-SZUMIATA, M. Mössbauer and magnetic study of Fe+vitroperm+plastic system. In CSMAG '13 : 15th Czech and Slovak conference on magnetism. Abstracts. Košice, 17.-21.6.2013. - Košice : PF UPJŠ, 2013, p. 133. ISBN 978-80-8152-015-0.
- AFHA03 BUREŠ, Radovan - FÁBEROVÁ, Mária - STREČKOVÁ, Magdaléna - KOLLÁR, P. - FÜZER, J. Structure and properties of hybrid composites based on two different ferromagnets. In CSMAG '13 : 15th Czech and Slovak conference on magnetism. Abstracts. Košice, 17.-21.6.2013. - Košice : PF UPJŠ, 2013, p. 127. ISBN 978-80-8152-015-0.
- AFHA04 BUREŠ, Radovan - FÁBEROVÁ, Mária - STREČKOVÁ, Magdaléna. Špecifiká kompaktizácie práškových kompozitných systémov. In Funkčné kompozitné materiály : Konferencia s medzinárodnou účasťou. Zborník abstraktov. Košice, 17.5.2013. - Košice : ÚMV SAV, 2013, s. 17. ISBN 978-80-970964-4-1.
- AFHA05 FÜZER, J. - FÜZEROVÁ, Jana - KOLLÁR, P. - BUREŠ, Radovan - STREČKOVÁ, Magdaléna - FÁBEROVÁ, Mária - DUDROVÁ, Eva - KABÁTOVÁ, Margita - SELECKÁ, Marcela. Komplexná permeabilita kompozitných materiálov na báze železa. In Funkčné kompozitné materiály : Konferencia s medzinárodnou účasťou. Zborník abstraktov. Košice, 17.5.2013. - Košice : ÚMV SAV, 2013, s. 8. ISBN 978-80-970964-4-1.
- AFHA06 GAVENDOVÁ, Petra - KOVÁČ, František - PETRYSHYNETS, Ivan - SOPKO, Martin - MOLNÁROVÁ, Mária. Nanoindentation measurements in non-oriented silicon steel at elevated temperatures. In Metallography 2013 : 15th international

- symposium on metallography. Abstract booklet. Stará Lesná, 24.-26.4.2013. - Košice : Technical University, 2013, p. 93. ISBN 978-80-553-1412-9.
- AFHA07 HAGAROVÁ, Mária - DZEDZINA, Rastislav - GAVENDOVÁ, Petra. Properties of Ni-Co alloy coating prepared from sulfate bath. In Metallography 2013 : 15th international symposium on metallography. Abstract booklet. Stará Lesná, 24.-26.4.2013. - Košice : Technical University, 2013, p. 152. ISBN 978-80-553-1412-9.
- AFHA08 HOMOLOVÁ, Viera. Prediction of ternary Fe-B-Cr phase diagram. In Metallography 2013 : 15th international symposium on metallography. Abstract booklet. Stará Lesná, 24.-26.4.2013. - Košice : Technical University, 2013, p. 26. ISBN 978-80-553-1412-9.
- AFHA09 HRUBOVČÁKOVÁ, Monika - DUDROVÁ, Eva - KABÁTOVÁ, Margita. Oxide reduction processes, microstructure and properties of sintered chromium pre-alloyed steel. In Metallography 2013 : 15th international symposium on metallography. Abstract booklet. Stará Lesná, 24.-26.4.2013. - Košice : Technical University, 2013, p. 133. ISBN 978-80-553-1412-9.
- AFHA10 HRUBOVČÁKOVÁ, Monika - KUPKOVÁ, Miriam - FEDORKOVÁ, Andrea - ORIŇÁKOVÁ, Renáta - ZELEŇÁK, Adam. Effect of silver content on microstructure and corrosion behavior of material prepared from silver coated iron powder. In Metallography 2013 : 15th international symposium on metallography. Abstract booklet. Stará Lesná, 24.-26.4.2013. - Košice : Technical University, 2013, p. 136. ISBN 978-80-553-1412-9.
- AFHA11 KABÁTOVÁ, Margita - FÜZER, J. - FÜZEROVÁ, Jana - DUDROVÁ, Eva - KOLLÁR, P. Fe/SiO₂/resin soft magnetic composite powder materials prepared by mixing and vacuum/pressure impregnation. In CSMAG '13 : 15th Czech and Slovak conference on magnetism. Abstracts. Košice, 17.-21.6.2013. - Košice : PF UPJŠ, 2013, p. 123. ISBN 978-80-8152-015-0.
- AFHA12 KABÁTOVÁ, Margita - BRUNCKOVÁ, Helena - DUDROVÁ, Eva. Microstructure of sintered composites based on iron phosphated powder. In Metallography 2013 : 15th international symposium on metallography. Abstract booklet. Stará Lesná, 24.-26.4.2013. - Košice : Technical University, 2013, p. 135. ISBN 978-80-553-1412-9.
- AFHA13 KABÁTOVÁ, Margita - DUDROVÁ, Eva - FÜZER, J. - FÜZEROVÁ, Jana - KOLLÁR, P. Microstructure of iron/SiO₂/resin composites prepared by vacuum/pressure impregnation. In Metallography 2013 : 15th international symposium on metallography. Abstract booklet. Stará Lesná, 24.-26.4.2013. - Košice : Technical University, 2013, p. 140. ISBN 978-80-553-1412-9.
- AFHA14 KOLLÁR, P. - BIRČÁKOVÁ, Zuzana - FÜZER, J. - FÁBEROVÁ, Mária - BUREŠ, Radovan. Magnetické straty kompozitných materiálov na báze železa. In Funkčné kompozitné materiály : Konferencia s medzinárodnou účasťou. Zborník abstraktov. Košice, 17.5.2013. - Košice : ÚMV SAV, 2013, s. 7. ISBN 978-80-970964-4-1.
- AFHA15 KOVAL', Vladimír. Impendačná spektroskopia kompozitov. In Funkčné kompozitné materiály : Konferencia s medzinárodnou účasťou. Zborník abstraktov. Košice, 17.5.2013. - Košice : ÚMV SAV, 2013, s. 10-11. ISBN 978-80-970964-4-1.
- AFHA16 KUPKOVÁ, Miriam - ORIŇÁKOVÁ, Renáta - FEDORKOVÁ, Andrea - KUPKA, Martin - HRUBOVČÁKOVÁ, Monika. PM materials prepared from powders consisting of polymer coated iron microparticles. In Metallography 2013 : 15th international symposium on metallography. Abstract booklet. Stará Lesná, 24.-26.4.2013. - Košice : Technical University, 2013, p. 134. ISBN 978-80-553-1412-9.
- AFHA17 LAUDA, M. - FÜZER, J. - FÜZEROVÁ, Jana - KOLLÁR, P. - STREČKOVÁ, Magdaléna - FÁBEROVÁ, Mária. Magnetic properties of soft magnetic FeSi composite powder cores. In CSMAG '13 : 15th Czech and Slovak conference on

- magnetism. Abstracts. Košice, 17.-21.6.2013. - Košice : PF UPJŠ, 2013, p. 129. ISBN 978-80-8152-015-0.
- AFHA18 MEDVECKÝ, Ľubomír - GIRETOVÁ, Mária. In-vitro charakterizácia a degradácia polyhydroxybutyrát-chitosanových kompozitov. In Funkčné kompozitné materiály : Konferencia s medzinárodnou účasťou. Zborník abstraktov. Košice, 17.5.2013. - Košice : ÚMV SAV, 2013, s. 6. ISBN 978-80-970964-4-1.
- AFHA19 MILKOVIČ, Ondrej - SAKSL, Karel - HAGAROVÁ, Mária - MICHALIK, Štefan - GAMCOVÁ, Jana. Structure characterisation of electrodeposited Ni-Co alloy. In Metallography 2013 : 15th international symposium on metallography. Abstract booklet. Stará Lesná, 24.-26.4.2013. - Košice : Technical University, 2013, p. 102. ISBN 978-80-553-1412-9.
- AFHA20 MORGIEL, Jerzy - DUSZA, Ján. TEM and HRTEM analyses of ceramic nanocomposites. In Metallography 2013 : 15th international symposium on metallography. Abstract booklet. Stará Lesná, 24.-26.4.2013. - Košice : Technical University, 2013, p. 78. ISBN 978-80-553-1412-9.
- AFHA21 ORIŇÁKOVÁ, Renáta - ORIŇÁK, Andrej - KUPKOVÁ, Miriam - HRUBOVČÁKOVÁ, Monika - FEDORKOVÁ, Andrea - MOROVSKÁ, TUROŇOVÁ, Andrea. Štúdium degradácie biologicky odbúrateľných kovových materiálov. In ChemZi : slovenský časopis o chémii pre chemické vzdelávanie, výskum a priemysel : 65. Zjazd chemikov : Tatranské Matliare : 9. - 13. 9. 2013, 2013, roč. 9, č. 1, s. 73-74. ISSN 1336-7242.
- AFHA22 OSTROUSHKO, Dmytro - MAZANCOVÁ, Eva - SAKSL, Karel. Phase analysis explosive weld ED Ti-Cr/Ni steel in as-received state and after heat treatment using synchrotron (BW-S). In Metallography 2013 : 15th international symposium on metallography. Abstract booklet. Stará Lesná, 24.-26.4.2013. - Košice : Technical University, 2013, p. 46. ISBN 978-80-553-1412-9.
- AFHA23 PETRYSHYNETS, Ivan - KOVÁČ, František - MARCIN, Jozef - ŠKORVÁNEK, Ivan. Improved processing technique for preparation of non-oriented electrical steels with low coercivity. In CSMAG '13 : 15th Czech and Slovak conference on magnetism. Abstracts. Košice, 17.-21.6.2013. - Košice : PF UPJŠ, 2013, p. 157. ISBN 978-80-8152-015-0.
- AFHA24 PETRYSHYNETS, Ivan - KOVÁČ, František - MOLNÁROVÁ, Mária - GAVENDOVÁ, Petra - SOPKO, Martin - PETROV, Branislav. Columnar grain growth with enhanced rotation texture in temper rolled NO silicon steels. In Metallography 2013 : 15th international symposium on metallography. Abstract booklet. Stará Lesná, 24.-26.4.2013. - Košice : Technical University, 2013, p. 92. ISBN 978-80-553-1412-9.
- AFHA25 SHVAB, Ruslan - HRYHA, Eduard - SHYKULA, Petro - DUDROVÁ, Eva - BERGMAN, Ola - BENGTSSON, Sven. Metallographic study of microstructure of high Cr-alloyed sintered steel. In Metallography 2013 : 15th international symposium on metallography. Abstract booklet. Stará Lesná, 24.-26.4.2013. - Košice : Technical University, 2013, p. 75. ISBN 978-80-553-1412-9.
- AFHA26 SOPKO, Martin - MILKOVIČ, Ondrej - NIŽNÍK, Štefan - ŠKORVÁNEK, Ivan. Structure and magnetic properties of iron/iron-oxide nanoparticles prepared by precipitation from solid state solution. In CSMAG '13 : 15th Czech and Slovak conference on magnetism. Abstracts. Košice, 17.-21.6.2013. - Košice : PF UPJŠ, 2013, p. 192. ISBN 978-80-8152-015-0.
- AFHA27 SOPKO, Martin - KOVÁČ, František - PETRYSHYNETS, Ivan - MOLNÁROVÁ, Mária - GAVENDOVÁ, Petra. Differential scanning calorimetry and metallographic analysis of Fe-Si electrical steel. In Metallography 2013 : 15th international

- symposium on metallography. Abstract booklet. Stará Lesná, 24.-26.4.2013. - Košice : Technical University, 2013, p. 88. ISBN 978-80-553-1412-9.
- AFHA28** STREČKOVÁ, Magdaléna - BAŤKOVÁ, Marianna - BAŤKO, Ivan - HADRABA, Hynek - BUREŠ, Radovan. Imaging of magnetic domains and domain walls in spherical Fe-Si powder using magnetic force microscopy. In CSMAG '13 : 15th Czech and Slovak conference on magnetism. Abstracts. Košice, 17.-21.6.2013. - Košice : PF UPJŠ, 2013, p. 97. ISBN 978-80-8152-015-0.
- AFHA29** STREČKOVÁ, Magdaléna - BUREŠ, Radovan - FÁBEROVÁ, Mária. Elektroizolačné povlaky v magneticky mäkkých kompozitoch. In Funkčné kompozitné materiály : Konferencia s medzinárodnou účasťou. Zborník abstraktov. Košice, 17.5.2013. - Košice : ÚMV SAV, 2013, s. 16. ISBN 978-80-970964-4-1.
- AFHA30** VOJKO, Marek - ZUBKO, Pavol - ĎURIŠIN, Martin. Use of decomposition of non-termoelastic martensite for structural changes of CuZnAl shape memory alloys. In Metallography 2013 : 15th international symposium on metallography. Abstract booklet. Stará Lesná, 24.-26.4.2013. - Košice : Technical University, 2013, p. 132. ISBN 978-80-553-1412-9.
- AFHA31** ZELEŇÁK, Adam - HRUBOVČÁKOVÁ, Monika - KUPKOVÁ, Miriam - FEDORKOVÁ, Andrea - ORIŇÁKOVÁ, Renáta. Spekané biologicky odbúrateľné materiály na báze práškového železa. In Funkčné kompozitné materiály : Konferencia s medzinárodnou účasťou. Zborník abstraktov. Košice, 17.5.2013. - Košice : ÚMV SAV, 2013, s. 15. ISBN 978-80-970964-4-1.

AFHB Abstracts of the Publications of the National Scientific Conferences

- AFHB01** BUREŠ, Radovan - FÁBEROVÁ, Mária - KOVAL', Vladimír - KOLLÁR, P. - FÜZER, J. - BIRČÁKOVÁ, Zuzana. Vplyv veľkosti častíc na vlastnosti magneticky mäkkých kompozitov. In Progresívne magnetické materiály : Zborník abstraktov. Košice, 25.10.2013. - Košice : Ústav materiálového výskumu SAV, 2013, s. 17. ISBN 978-80-970964-6-5.
- AFHB02** DOMANICKÁ, Magdaléna - BODIŠOVÁ, Katarína - LENČÉŠ, Zoltán - VILČEKOVÁ, Zuzana - KAŠIAROVÁ, Monika - HNATKO, Miroslav - ŠAJGALÍK, Pavol. Príprava pôrovitej keramiky na báze nitridu kremičitého replikačnou metódou pre bioaplikácie. In Príprava a vlastnosti progresívnych keramických materiálov. Odborný seminár. Ružín, 18.-19. november 2013 : zborník rozšírených abstraktov. - Bratislava : Ústav anorganickej chémie SAV, 2013, s. 15-16. ISBN 978-80-971499-4-9.
- AFHB03** FÁBEROVÁ, Mária - BUREŠ, Radovan - KABÁTOVÁ, Margita - STREČKOVÁ, Magdaléna. Kompaktizácia práškového systému Fe/MgO. In Progresívne magnetické materiály : Zborník abstraktov. Košice, 25.10.2013. - Košice : Ústav materiálového výskumu SAV, 2013, s. 16. ISBN 978-80-970964-6-5.
- AFHB04** HADRABA, Hynek - STREČKOVÁ, Magdaléna - ROUPCOVÁ, Pavla - HUSÁK, R. Príprava magneticky mäkké slitiny Ni-Fe typu Permalloy mechanickým legováním v tuhému stavu. In Progresívne magnetické materiály : Zborník abstraktov. Košice, 25.10.2013. - Košice : Ústav materiálového výskumu SAV, 2013, s. 15. ISBN 978-80-970964-6-5.
- AFHB05** HVIŠČOVÁ, Petra - NOVÁK, Michal - LOFAJ, František. Porovnanie nanotvrdosti a trenia povlakov na báze WC a CrN. In Príprava a vlastnosti progresívnych keramických materiálov. Odborný seminár. Ružín, 18.-19. november 2013 : zborník rozšírených abstraktov. - Bratislava : Ústav anorganickej chémie SAV, 2013, s. 32-34. ISBN 978-80-971499-4-9.

- AFHB06 KABÁTOVÁ, Margita - DUDROVÁ, Eva - SELECKÁ, Marcela - FÜZER, J. - FÜZEROVÁ, Jana - KOLLÁR, P. Magneticky mäkké kompozity pripravené vákuovo/tlakovou impregnáciou. In Progresívne magnetické materiály : Zborník abstraktov. Košice, 25.10.2013. - Košice : Ústav materiálového výskumu SAV, 2013, s. 18. ISBN 978-80-970964-6-5.
- AFHB07 KAŠIAROVÁ, Monika - MICHÁLKOVÁ, Monika - TATARKO, Peter - ŠAJGALÍK, Pavol. Pevnosť v štvorbodovom ohybe materiálov Si₃N₄-7hm.%GNP pripravených rôznymi metódami. In Príprava a vlastnosti progresívnych keramických materiálov. Odborný seminár. Ružín, 18.-19. november 2013 : zborník rozšírených abstraktov. - Bratislava : Ústav anorganickej chémie SAV, 2013, s. 38-39. ISBN 978-80-971499-4-9.
- AFHB08 NÉMETH, Dušan - LOFAJ, František - KUČERA, Ján - IVANČO, Vladimír. Modelovanie napäti v dentálnom implantáte a kosti. In Príprava a vlastnosti progresívnych keramických materiálov. Odborný seminár. Ružín, 18.-19. november 2013 : zborník rozšírených abstraktov. - Bratislava : Ústav anorganickej chémie SAV, 2013, s. 48-52. ISBN 978-80-971499-4-9.
- AFHB09 NOVÁK, Michal - LOFAJ, František - HVIŠČOVÁ, Petra. Rozličné indentačné podmienky a ich vplyv na hĺbkové profily nanotvrdoši tenkých W-C povlakov. In Príprava a vlastnosti progresívnych keramických materiálov, Odborný seminár. Ružín, 18.-19. november 2013 : zborník rozšírených abstraktov. - Bratislava : Ústav anorganickej chémie SAV, 2013, s. 53-56. ISBN 978-80-971499-4-9.
- AFHB10 PARCHOVIANSKÝ, Milan - GALUSEK, Dušan - SEDLÁČEK, Jaroslav - ŠVANČÁREK, Peter - KAŠIAROVÁ, Monika - DUSZA, Ján - ŠAJGALÍK, Pavol. Mikroštruktúra, mechanické a funkčné vlastnosti a vysokoteplotné správanie Al₂O₃/SiC mikro/nano kompozitov. In Príprava a vlastnosti progresívnych keramických materiálov. Odborný seminár. Ružín, 18.-19. november 2013 : zborník rozšírených abstraktov. - Bratislava : Ústav anorganickej chémie SAV, 2013, s. 57-58. ISBN 978-80-971499-4-9.
- AFHB11 STREČKOVÁ, Magdaléna - FÁBEROVÁ, Mária - BUREŠ, Radovan - HADRABA, Hynek - ROUPCOVÁ, Pavla. Magneticky mäkké kompozity pozostávajúce z feromagnetických práškových častíc povlakovaných elektroizolačnou vrstvou. In Progresívne magnetické materiály : Zborník abstraktov. Košice, 25.10.2013. - Košice : Ústav materiálového výskumu SAV, 2013, s. 14. ISBN 978-80-970964-6-5.
- AFHB12 VILČEKOVÁ, Zuzana - KAŠIAROVÁ, Monika - DOMANICKÁ, Magdaléna - ŠAJGALÍK, Pavol. Mikroštruktúra a mechanické vlastnosti biomateriálov na báze nitridu kremičitého. In Príprava a vlastnosti progresívnych keramických materiálov. Odborný seminár. Ružín, 18.-19. november 2013 : zborník rozšírených abstraktov. - Bratislava : Ústav anorganickej chémie SAV, 2013, s. 66-68. ISBN 978-80-971499-4-9.
- AFHB13 VÝROSTKOVÁ, Anna - PECHA, Jozef - ČIRIPOVÁ, Lucia - FALAT, Ladislav - HOMOLOVÁ, Viera. Trhliny vo zvarových spojoch materiálu T24. In Odborný seminár ŽP VVC : Zborník abstraktov. Tále, 26.-27.9.2013. - Podbrezová : Železiarne Podbrezová, 2013, s. 36-37.

AGJ Patents

- AGJ01 BUREŠ, Radovan - STREČKOVÁ, Magdaléna - FÁBEROVÁ, Mária - KOLLÁR, P. - FÜZER, J. Spôsob prípravy magnetických kompozitov s polymérnym elektroizolačným spojivom : Patentová prihláška č. PP 00095-2013. Banská Bystrica

- : ÚPV SR, 2013.
- AGJ02 FERDINANDY, Milan - DUSZA, Ján - LOFAJ, František - KOTTFER, Daniel - HEGEDÜSOVÁ, Lucia. Zariadenie na prípravu vrstiev karbidov, nitridov, silicidov, boridov W, Cr, Mo, Re, Os, Rh, Ru a multivrstvových a kompozitných štruktúr na vnútornej valcovej ploche elektricky vodivej rúry : Patent č. 288155. Banská Bystrica : Úrad priemyselného vlastníctva SR, 2013.

DAI PhD and Habilitation Thesis

- DAI01 BALKO, Ján. Tribological properties of brittle composite systems : Written part of PhD. thesis. Košice : Institute of Materials Research SAS, 2013. 76 p.
- DAI02 CENIGA, Ladislav. Analytical models of thermal stresses in multi-component materials : dizertačné doktorské práce (DrSc.). Praha : Akademie věd ČR, 2012. 168 s.
- DAI03 ĎURIŠIN, Martin. Charakterizácia štruktúry amorfíných a nanokryštalických materiálov : Písomná práca k dizertačnej skúške. Košice : Ústav materiálového výskumu SAV, 2013. 62 s.
- DAI04 DUSZOVÁ, Annamária. Micro/nano tribology and indentation of WC-based materials : dizertačné doktorandské práce (PhD.,Dr.). Košice : Institute of Materials Research SAS, 2013. 132 p.
- DAI05 HVIŠČOVÁ, Petra. Technológia a mechanické vlastnosti keramických povlakov : Písomná časť dizertačnej skúšky. Košice : Ústav materiálového výskumu SAV, 2013. 101 s.
- DAI06 KEPIČ, Ján. Degradácia štruktúry a vlastností zvarových spojov progresívnych žiaruvevných ocelí : dizertačné doktorandské práce (PhD.,Dr.). Košice : Hutnícka fakulta TU, 2013. 158 s.
- DAI07 MACKO, Roman. Posúdenie náchylnosti Cr-Mo(Ni) ocelí a ich zvarov na vodíkové krehnutie : dizertačné doktorandské práce (PhD.,Dr.). Košice : Hutnícka fakulta TU, 2013. 135 s.
- DAI08 ZELEŇÁK, Adam. Spekané materiály s mikrogradientnou štruktúrou : Písomná práca dizertačnej skúšky. Košice : Ústav materiálového výskumu SAV, 2013. 52 s.

FAI Editing Publications (Proceedings, Journal...)

- FAI01 Kovové materiály. Editor Juraj Lapin ; výkonný redaktor Natália Mináriková. Bratislava : Ústav materiálov a mechaniky strojov SAV : Ústav materiálového výskumu SAV, 1963-. 6x ročne. ISSN 0023-432X.
- FAI02 Progresívne magnetické materiály : Zborník abstraktov. Košice, 25.10.2013. Košice : Ústav materiálového výskumu SAV, 2013. 19 s. ISBN 978-80-970964-6-5.
- FAI03 Funkčné kompozitné materiály : Konferencia s medzinárodnou účasťou. Zborník abstraktov. Košice, 17.5.2013. Košice : ÚMV SAV, 2013. ISBN 978-80-970964-4-1.
- FAI04 Acta Metallurgica Slovaca. Košice : Technická univerzita - Hutnícka fakulta a Ústav materiálového výskumu SAV. iné. ISSN 1338-1156.
- FAI05 Powder Metallurgy Progress : Journal of Science and Technology of Particle Materials. Košice : Ústav materiálového výskumu SAV. ISSN 1335-8978.