

Publikácie za rok 2011

ADCA - Zahranický karentovaný časopis impaktovaný

1. **BRUNCKOVÁ, H.** (60%) - **MEDVECKÝ, Ľ.** (40%) : Effect of sol concentration and substrate type on microstructure formation of PZT thin films. *Ceramics - Silikáty*, 55, 2011, no. 1, s.36-42
2. **PAVLOVIC, N.** (50%) - **KOVAL, V.** (30%) - **DUSZA, J.** (10%) - **SRDIC, V.** (10%) : Effect of Ce and La substitution on dielectric properties of bismuth titanate ceramics. *Ceramics International*, 37, 2011, s.487-492
3. **BRUNCKOVÁ, H.** (60%) - **MEDVECKÝ, Ľ.** (30%) - **HVIZDOŠ, P.** (10%) : Effect of sol-gel preparation method on particle morphology in pure and nanocomposite PZT thin films. *Chemical Papers*, 65, 2011, s.682-690
4. **MEDVECKÝ, Ľ.** (80%) - **ŠTULAJTEROVÁ, R.** (10%) - **KUTSEV, S.** (10%) : Microstructure and properties of polyhydroxybutyrate-calcium phosphate cement composites. *Chemical Papers*, 65, 2011, s.667-675
5. **HEGEDUSOVÁ, L.** (50%) - **CENIGA, L.** (45%) - **DUSZA, J.** (5%) : Contact strength and crack formation in monolithic SiC and MoSi₂. *Chemické listy*, 105, 2011, s.s802-s803
6. **HEGEDUSOVÁ, L.** (90%) - **DUSZA, J.** (10%) : Contact Strength Measurements and Cone Crack Formation of Si₃N₄ and SiC Based Ceramics. *Chemické listy*, 105, 2011, s.s178-s181
7. **ZUBKO, P.** (45%) - **BALLÓKOVÁ, B.** (45%) - **PEŠEK, L.** (5%) - **BLÁHOVÁ, O.** (5%) : Determination of mechanical properties of MoSi₂ composites by nanoindentation. *Chemické listy*, 105, 2011, s.s227-s229
8. **HVIZDOŠ, P.** (60%) - **BESTERCI, M.** (40%) : Effect of microstructure of Cu-Al₂O₃ composite on nano-hardness and wear parameters. *Chemické listy*, 105, 2011, s.s696-s699
9. **TATARKO, P.** (70%) - **KAŠIAROVÁ, M.** (20%) - **DUSZA, J.** (5%) - **ŠAJGALÍK, P.** (5%) : Effect of various grain boundary phases and SiC addition on the fracture characteristics of Si₃N₄ based ceramics. *Chemické listy*, 105, 2011, s.s850-s851
10. **LOFAJ, F.** - **STADLER, H.** - **FUCHSOVÁ, G.** - **HVIZDOŠ, P.** - **DUSZOVÁ, A.**: Elastic properties of thin WC/C coatings. *Chemické listy*, 105, 2011, s.s684-s687
11. **BIDULSKÝ, R.** (37%) - **ACTIS-GRANDE, M.** (33%) - **KABÁTOVÁ, M.** (30%) : Improved fatigue resistance of sintered steels via local hardening. *Chemické listy*, 105, 2011, s.s159-s162
12. **ŠPAKOVÁ, J.** (70%) - **DORČÁKOVÁ, F.** (20%) - **DUSZA, J.** (10%) : Indentation Load/Size Effect of Structural Ceramic Materials. *Chemické listy*, 105, 2011, s.s218-s222
13. **CSEHOVÁ, E.** (60%) - **DUSZOVÁ, A.** (15%) - **HVIZDOŠ, P.** (10%) - **LOFAJ, F.** (5%) - **DUSZA, J.** (5%) - **ŠAJGALÍK, P.** (5%) : Indentation size effect in basal and prismatic planes of Si₃N₄ crystals. *Chemické listy*, 105, 2011, s.s783-s784
14. **KOVALČÍKOVÁ, A.** (94%) - **TAPASZTÓ, O.** (2%) - **BALÁZSI, C.** (2%) - **DUSZA, J.** (2%) : Indentation thermal shock resistance of Si₃N₄/CNT composites. *Chemické listy*, 105, 2011, s.s824-s825
15. **PUCHÝ, V.** - **DUSZA, J.** - **INAM, F.** - **REECE, M.J.**: Indentation toughness of Al₂O₃-CNT nanocomposites. *Chemické listy*, 105, 2011, s.s842-s843
16. **KOČIŠKO, R.** (25%) - **BACSO, J.** (15%) - **BIDULSKÁ, J.** (15%) - **KOVÁČOVÁ, A.** (15%) - **BELLA, P.** (15%) - **MOLNÁROVÁ, M.** (15%) : Influence of deformation degree on local deformation heterogeneity during thin sheet rolling. *Chemické listy*, 105, 2011, s.s822-s823
17. **KAŠIAROVÁ, M.** (60%) - **HVIZDOŠ, P.** (20%) - **TATARKO, P.** (15%) - **DUSZA, J.** (5%) : Influence of the addition of SiC nanoparticles on the hardness and elastic modulus of Si₃N₄ composites measured by indentation method. *Chemické listy*, 105, 2011, s.s816-s817
18. **CSEHOVÁ, E.** (25%) - **DUSZA, J.** (25%) - **LIMPICHAIPANIT, A.** (25%) - **TODD, R.** (25%) : Instrumented indentation of Al₂O₃-SiC nanocomposites. *Chemické listy*, 105, 2011, s.s781-s782
19. **LOFAJ, F.** (100%) : Localized viscous flow in the oxide and oxynitride glasses by indentation creep. *Chemické listy*, 105, 2011, s.s198-s201
20. **GAVENDOVÁ, P.** (30%) - **KOVÁČ, F.** (30%) - **PETRYSHYNETS, I.** (20%) - **STOYKA, V.** (20%) : Measurement of parameters determining mechanical properties of grains with particular orientation in non-oriented electrotechnical steels. *Chemické listy*, 105, 2011, s.s798-s799
21. **DUSZOVÁ, A.** (65%) - **HORŇÁK, P.** (15%) - **STOYKA, V.** (5%) - **HVIZDOŠ, P.** (5%) - **LOFAJ, F.** (5%) - **DUSZA, J.** (5%) : Microstructure parameters versus indentation size effect in WC-Co hardmetals. *Chemické listy*, 105, 2011, s.s792-s793
22. **LOFAJ, F.** (90%) - **FERDINANDY, M.** (5%) - **JUHÁSZ, A.** (5%) : Nanohardness of WC/C coatings as a function of preparation conditions. *Chemické listy*, 105, 2011, s.s112-s114

23. FUCHSOVÁ, G. - LOFAJ, F. - SIMKULET, V.: The effect of surface roughness on nanoindentation. *Chemické listy*, 105, 2011, s.s796-s797
24. KOVALČÍKOVÁ, A. (90%) - DUSZA, J. (10%) : Thermal Shock Resistance of SiC+Si₃N₄ Composites Evaluated by Indentation Technique. *Chemické listy*, 105, 2011, s.s191-s194
25. KUPKOVÁ, M. (70%) - KUPKA, M. (10%) - STROBL, S. (10%) - HVIZDOŠ, P. (10%) : Universal hardness test applied to PM materials prepared from coated powders. *Chemické listy*, 105, 2011, s.s826-s827
26. BLACH, J. (40%) - FALAT, L. (40%) - ŠEVC, P. (20%) : The influence of hydrogen charging on the notch tensile properties and fracture behaviour of dissimilar weld joints of advanced Cr-Mo-V and Cr-Ni-Mo creep-resistant steels. *Engineering Failure Analysis*, 18, 2011, s.485-491
27. KOVAL, V. (80%) - BHARADWAJA, S. (10%) - TROLIER-MCKINSTRY, S. (10%) : Mist deposited lead zirconate titanate films. *Ferroelectrics*, 421, 2011, s.23-29
28. BESTERCI, M. (40%) - DOBEŠ, F. (15%) - BALLÓKOVÁ, B. (30%) - SÜLLEIOVÁ, K. (10%) - KVAČKAJ, T. (5%) : Observation of anisotropy of creep fracture using small punch test for Al-Al₄C₃ system produced by equal channel angular pressing. *High Temperature Materials and Processes*, 30, 2011, s.205-210
29. HVIZDOŠ, P. (85%) - BESTERCI, M. (10%) - KULU, P. (5%) : Tribological characteristics of micro- and nano-composites Cu-Al₂O₃ at room and elevated temperatures. *High Temperature Materials and Processes*, 30, 2011, s.573-577
30. CENIGA, L. (100%) : Analytical model of thermal-stress induced cracking in two-component material with anisotropic components. *International Journal of Engineering Science*, 49, 2011, s.354-368
31. ACHIMOVIČOVÁ, M. (30%) - BALÁŽ, P. (25%) - ĎURIŠIN, J. (20%) - DANEU, N. (5%) - KOVÁČ, J. (5%) - ŠATKA, A. (5%) - FELDHOFF, A. (5%) - GOCK, E. (5%) : Mechanochemical synthesis of nanocrystalline lead selenide: industrial approach. *International Journal of Materials Research*, 102, 2011, no. 4, s.441-445
32. STREČKA, J. (50%) - STREČKOVÁ, M. (50%) : Phase separation in asymmetric binary mixture of large hexagonal and small rhombus particles described within the generalised Frenkel-Louis model. *Journal of Molecular Liquids*, 158, 2011, s.187-191
33. ORIŇÁKOVÁ, R. (20%) - ROŠÁKOVÁ, K. (20%) - ORIŇÁK, A. (20%) - KUPKOVÁ, M. (20%) - AUDINOT, J. (5%) - MIGEON, H. (5%) - ANDERSSON, J. (5%) - KOVAL, K. (5%) : Electrodeposition of composite Ni-B coatings in a stirred heterogeneous system. *Journal of Solid State Electrochemistry*, 15, 2011, s.1159-1168
34. MEDVECKÝ, Ľ. (40%) - SOPČÁK, T. (40%) - ĎURIŠIN, J. (10%) - BRIANČIN, J. (10%) : Nanohydroxyapatite prepared from non-toxic organic Ca₂₊ compounds by precipitation in aqueous solution. *Materials Letters*, 65, 2011, s.3566-3569
35. VARGA, R. (30%) - RYBA, T. (20%) - VARGOVÁ, Z. (20%) - SAKSL, K. (20%) - ZHUKOVA, V. (5%) - ZHUKOV, A. (5%) : Magnetic and structural properties of Ni-Mn-Ga Heusler-type microwires. *Scripta Materialia*, 65, 2011, s.703-706
36. KOVAL, V. (80%) - BHARADWAJA, S. (5%) - LI, M. (5%) - MAYER, T. (5%) - TROLIER-MCKINSTRY, S. (5%) : Dielectrophoretic assembly of lead zirconate titanate microtubes. *Solid State Communications*, 151, 2011, s.1990-1993

ADCB – zahraničné karentované neimpaktované časopisy

1. FUSOVÁ, L. (70%) - ROKICKI, P. (10%) - SPOTZ, Z. (10%) - SAKSL, K. (5%) - SIEMERS, C. (5%) : Tool wear mechanisms during machining of alloy 625. *Advanced Materials Research*, vol. 275, 2011, s.204-207
2. SIEMERS, C. (50%) - ZAHRA, B. (10%) - KSIEZYK, D. (5%) - ROKICKI, P. (10%) - SPOTZ, Z. (10%) - FUSOVÁ, L. (5%) - RÖSLER, J. (5%) - SAKSL, K. (5%) : Chip formation and machinability of nickel-base superalloys. *Advanced Materials Research*, vol. 278, 2011, s.460-465

ADDA – Domáce karentované časopisy impaktované

1. BESTERCI, M. (65%) - IVAN, J. (10%) - HUANG, J. (7%) - VELGOSOVÁ, O. (6%) - LIN, B. (6%) - HVIZDOŠ, P. (6%) : Damage mechanism of AZ61-F Mg alloy with nano-Al₂O₃ particles. *Kovové materiály*, 49, 2011, s.451-455

2. VELGOSOVÁ, O. (40%) - **BESTERCI, M.** (35%) - **KOVÁČ, L.** (15%) - KULU, P. (5%) - HUANG, J. (5%) : Effect of strain rate, volume fraction of particles and temperature on fracture mechanism in Al-Al₄C₃ systems. *Kovové materiály*, 49, 2011, s.361-367
3. **CSEHOVÁ, E.** (70%) - **ANDREJOVSKÁ, J.** (10%) - LIMPICHAIPANIT, A. (10%) - **DUSZA, J.** (5%) - TODD, R. (5%) : Hardness and indentation load-size effect in Al₂O₃-SiC nanocomposites. *Kovové materiály*, 49, 2011, s.119-124
4. **FALAT, L.** (85%) - **VÝROSTKOVÁ, A.** (5%) - SVOBODA, M. (5%) - MILKOVIC, O. (5%) : The influence of PWHT regime on microstructure and creep rupture behaviour of dissimilar T92/TP316H ferritic/austenitic welded joints with Ni-based filler metal. *Kovové materiály*, 49, 2011, s.417-426

ADEA – Zahraničné nekarentované časopisy impaktované

1. **ŠALAK, A.** (50%) - **SELECKÁ, M.** (50%) : Effect of manganese addition and sintering conditions on mechanical properties of low carbon 3Cr prealloyed steel. *Materials Science Forum*, 672, 2011, s.55-58
2. **DUDROVÁ, E.** (45%) - ACTIS-GRANDE, M. (10%) - ROSSO, M. (10%) - **KABÁTOVÁ, M.** (25%) - BIDULSKÝ, R. (10%) : Improvement of mechanical properties of Fe-Cr-Mo-[Cu-Ni]-C sintered steels by sinter hardening. *Materials Science Forum*, 672, 2011, s.31-38
3. **SELECKÁ, M.** (50%) - **ŠALAK, A.** (30%) - **JAKUBÉCZYOVÁ, D.** (20%) : Mechanical and tribological characteristics of sintered manganese steels. *Materials Science Forum*, 672, 2011, s.59-62
4. STROBL, S. (30%) - WAGESREITHER, J. (15%) - GIERL, C. (15%) - DLAPKA, M. (15%) - **KUPKOVÁ, M.** (15%) - KUPKA, M. (5%) - ČERNÝ, M. (5%) : The influence of Cu-coating versus admixing on mechanical properties and dimensional change of sintered Fe-Cu parts. *Materials Science Forum*, 672, 2011, s.63-67
5. ROSSO, M. (10%) - **DUDROVÁ, E.** (80%) - ACTIS-GRANDE, M. (5%) - BIDULSKÝ, R. (5%) : Wear Characteristics of Vacuum Sintered Steels. *Materials Science Forum*, 672, 2011, s.17-22
6. SIEMERS, C. (30%) - LAUKART, J. (15%) - ZAHRA, B. (15%) - RÖSLER, J. (10%) - **SPOTZ, Z.** (10%) - **SAKSL, K.** (10%) : Development of advanced and free-machining titanium alloys by micrometer-size particle distribution. *Materials Science Forum*, 690, 2011, s.262-265

ADEB – Zahraničné nekarentované časopisy neimpaktované

1. **JAKUBÉCZYOVÁ, D.** (60%) - HAGAROVÁ, M. (30%) - ŠTĚPÁNEK, I. (10%) : Evaluation of thin PVD coatings by adhesive-cohesive test. *Annals of Faculty Engineering Hunedoara - International Journal of Engineering*, 9, 2011, no. 1, s.79-82
2. **BLACH, J.** (60%) - **FALAT, L.** (30%) - **ŠEVC, P.** (10%) : Heterogénny zvarový spoj žiarupevných ocelí AISI 316 H a T91 po ovplyvnení vodíkom a ťahovom namáhaní pri teplote okolia. *Hutnické listy*, 64, 2011, č. 2, s.21-26
3. **TATARKO, P.** (80%) - CHLUP, Z. (10%) - **DUSZA, J.** (10%) : Microstructure, fracture and damage mechanisms in rare-earth doped silicon nitride ceramics. *Key Engineering Materials*, 465, 2011, s.93-96
4. **BUREŠ, R.** (34%) - SAXL, I. (33%) - **FÁBEROVÁ, M.** (33%) : Quantification of carbide distribution in PM tool steels with niob addition. *Key Engineering Materials*, 465, 2011, s.310-313
5. MICHALCOVÁ, A. (20%) - VOJTĚCH, D. (10%) - NOVÁK, P. (10%) - PROCHÁZKA, I. (5%) - ČÍŽEK, J. (15%) - DRAHOKOUPIL, J. (15%) - WIENEROVÁ, K. (5%) - **SAKSL, K.** (10%) - **ROKICKI, P.** (5%) - **SPOTZ, Z.** (5%) : Structure of rapidly solidified Al-Fe-Cr-Ce alloy. *Key Engineering Materials*, 465, 2011, s.199-202
6. **HVIZDOŠ, P.** (60%) - **DUSZOVÁ, A.** (10%) - **PUCHÝ, V.** (10%) - TAPASZTÓ, O. (5%) - KUN, P. (5%) - **DUSZA, J.** (5%) - BALÁZSI, C. (5%) : Wear Behavior of ZrO₂-CNF and Si₃N₄-CNT nanocomposites. *Key Engineering Materials*, 465, 2011, s.495-498
7. **KUPKOVÁ, M.** (60%) - **SELECKÁ, M.** (25%) - GEORGIEV, J. (5%) - KUPKA, M. (5%) - ORIŇÁKOVÁ, R. (5%) : Dimensional changes caused by sintering of compacts from Cu or Cu/hydrocarbon coated iron powders. *Naučni izvestija*, 19, 2011, s.181-184
8. HÁJKOVÁ, V. (30%) - **SAKSL, K.** (5%) - WABNITZ, H.: X-ray laser-induced ablation of lead compounds. *Proceedings of SPIE*, 8077, 2011, s.807718
9. MANDZIEJ, S.T. (50%) - **VÝROSTKOVÁ, A.** (40%) - SOLAR, M. (10%) : Evolution of Cr-Mo-V weld metal microstructure during creep testing Part 2: P24 material. *Welding in the World*, 55, 2011, no. 5/6, s.52-69
10. MANDZIEJ, S.T. (50%) - **VÝROSTKOVÁ, A.** (40%) - CHOVET, C. (10%) : Microstructure and creep rupture of P92-grade weld metal. *Welding in the World*, 55, 2011, no. 5/6, s.37-51

ADFB – Domáce nekarentované časopisy neimpaktované

1. PETROVOVÁ, E. (45%) - **MEDVECKÝ, Ľ.** (15%) - CIGÁNKOVÁ, V. (15%) - MAŽENSKÝ, D. (5%) - LUPTÁKOVÁ, L. (5%) - TARABOVÁ, L. (5%) - ALMÁŠIOVÁ, V. (5%) - HOLOVSKÁ, K. (5%) : Osteogenic potential of marrow mesenchymal stem cells seeded on hydroxyapatite composites. Folia Veterinaria, vol. 55, 2011, s.148-150
2. **ROSENBERG, G.** (50%) - **GAŠKO, M.** (50%) : Correlation between hardness and tensile properties in ultra-high strength dual phase steels - short communication. Materials Engineering - Materiálové inžinierstvo, 18, 2011, s.155-159
3. **VÝROSTKOVÁ, A.** (40%) - **KEPIČ, J.** (30%) - **MACKO, R.** (25%) - **HOMOLOVÁ, V.** (5%) : Degradation of 0.5Cr-0.5Mo-0.25V steel microstructure during exploitation. Materials Engineering - Materiálové inžinierstvo, 18, 2011, s.73-78
4. **ROSENBERG, G.** (100%) : Effect of shot peening on fatigue properties of steel in different structural states. Materials Engineering - Materiálové inžinierstvo, 18, 2011, s.68-72
5. **ROSENBERG, G.** (65%) - **GAŠKO, M.** (20%) - **SINAIOVÁ, I.** (10%) - **KOČÍK, M.** (5%) - **JUHAR, L.:** Fatigue behavior of hot-rolled steel intended for cold forming. Materials Engineering - Materiálové inžinierstvo, 18, 2011, s.63-67
6. MARTINKOVIČ, M. (26%) - KOTTFER, D. (25%) - **FERDINANDY, M.** (25%) - MAŇKOVÁ, I. (24%) : The characterization of electroplated Cr coating. Materials Science and Technology (internetový časopis), 2011, 2, s.31-37
7. MARTINKOVIČ, M. (26%) - KOTTFER, D. (25%) - **FERDINANDY, M.** (25%) - MAŇKOVÁ, I. (24%) : The effect of the substrate position on mechanical and tribological behavior of Ti coatings deposited by EB PVD technique. Materials Science and Technology (internetový časopis), 2011, 2, s.38-47
8. LUKARSKI, Y. (20%) - ANESTIJEV, L. (20%) - GEORGIEV, J. (20%) - **SELECKÁ, M.** (20%) - GHICA, V. (20%) : A prospective method for production of TiH₂ and Ti powders from titanium wastes. Powder Metallurgy Progress, 11, 2011, s.330-339
9. ANTONOVA, O. - SMIRNOV, V. - BARINOV, S.M. - BAKUNOVA, N. - **MEDVECKÝ, Ľ.** - **ĎURIŠIN, J.:** Bioactive silicium-containing coatings on titanium substrate. Powder Metallurgy Progress, 11, 2011, s.271-276
10. **KUPKOVÁ, M.** (85%) - STROBL, S. (5%) - GIERL, C. (5%) - KUPKA, M. (5%) : Changes in dimensions and microstructure of compacts from copper-coated iron powders during sintering. Powder Metallurgy Progress, 11, 2011, s.313-319
11. TEODOSIEV, D. (20%) - PETKOV, V. (20%) - VALOV, R. (15%) - GEORGIEV, J. (15%) - **SELECKÁ, M.** (10%) - STEFANOV, S. (10%) - TZVETKOV, P. (10%) : Composite material on Al₂O₃ basis coated with vitreous carbon for medical needs. Powder Metallurgy Progress, 11, 2011, s.326-329
12. **BALLÓKOVÁ, B.** (70%) - **BESTERCI, M.** (20%) - **SÜLLEIOVÁ, K.** (10%) : Creep fracture analysis of Al-Al₄C₃ system produced by equal channel angular pressing. Powder Metallurgy Progress, 11, 2011, s.227-232
13. **KABÁTOVÁ, M.** (60%) - **DUDROVÁ, E.** (30%) - WRONSKI, A.S. (5%) - MITCHELL, S.C. (5%) : Fatigue failure mechanism in Fe-1.4Cr-0.2Mo-1.4Mn-0.7C. Powder Metallurgy Progress, 11, 2011, s.104-114
14. **STREČKOVÁ, M.** (40%) - **BUREŠ, R.** (20%) - **FÁBEROVÁ, M.** (20%) - **SOPČÁK, T.** (20%) : Filler influence on microstructure of Fe/resin composites. Powder Metallurgy Progress, 11, 2011, s.300-305
15. **HRUBOVČÁKOVÁ, M.** (60%) - **DUDROVÁ, E.** (30%) - HARVANOVÁ, J. (10%) : Influence of carbon content on oxides reduction during sintering of Cr-Mo-C prealloyed steel. Powder Metallurgy Progress, 11, 2011, s.115-122
16. **VARCHOLA, M.** (80%) - **BESTERCI, M.** (10%) - **SÜLLEIOVÁ, K.** (10%) : Influence of testing, temperature and strain rate on plastic properties and fracture micromechanism of Al-Al₄C₃ composite. Powder Metallurgy Progress, 11, 2011, s.233-237
17. **HVIZDOŠ, P.** (60%) - **BALLÓKOVÁ, B.** (35%) - **BESTERCI, M.** (5%) : Mechanical properties of MoSi₂ and MoSi₂ composites measured by instrumented indentation. Powder Metallurgy Progress, 11, 2011, s.265-270
18. **BUREŠ, R.** (40%) - KOLLÁR, P. (30%) - **FÁBEROVÁ, M.** (20%) - FÜZER, J. (10%) : Microstructure and properties of Fe/phenol-formaldehyde resin composites. Powder Metallurgy Progress, 11, 2011, s.306-312
19. **BRUNCKOVÁ, H.** (60%) - **MEDVECKÝ, Ľ.** (30%) - **HVIZDOŠ, P.** (10%) : Phase composition and microstructure of lead-free ferroelectric (K, Na)NbO₃ thin films prepared by sol-gel method. Powder Metallurgy Progress, 11, 2011, s.347-351

20. ŠPÍRKOVÁ, M. (35%) - BUREŠ, R. (30%) - FÁBEROVÁ, M. (20%) - TRCHOVÁ, M. (5%) - STRACHOTA, A. (5%) - KAPRÁLKOVÁ, L. (5%) : Preparation and characterization of polyurethane - Fe powder composites. Powder Metallurgy Progress, 11, 2011, s.290-299
21. BUREŠ, R. (40%) - SOPČÁK, T. (30%) - FÁBEROVÁ, M. (20%) - KOVAL, V. (10%) : Preparation and properties of Fe/diallylphtalate composite. Powder Metallurgy Progress, 11, 2011, s.320-325
22. MOMENI, M. (25%) - DANNINGER, H. (25%) - GIERL, C. (25%) - DUDROVÁ, E. (20%) - ARVAND, A. (5%) : Relationship between tensile toughness and impact energy of Mo prealloyed and Ni-Cu-Mo diffusion bonded sintered steels. Powder Metallurgy Progress, 11, 2011, s.62-68
23. SULOWSKI, M. (37%) - KABÁTOVÁ, M. (33%) - DUDROVÁ, E. (30%) : The properties and structure of Ni-free PM steels. Powder Metallurgy Progress, 11, 2011, s.132-140
24. JAKUBÉCZYOVÁ, D. (60%) - HVIZDOŠ, P. (30%) - HAGAROVÁ, M. (5%) - KOČÍK, M. (5%) : The use of indentation tests for evaluation of thin PVD coatings of (Ti,Al) N type. Powder Metallurgy Progress, 11, 2011, s.165-172

AEC – Vedecké práce v zahraničných recenzovaných zborníkoch konferencií

1. BESTERCI, M. (70%) - SÜLLEIOVÁ, K. (25%) - VELGOSOVÁ, O. (5%) : Mechanical alloying of Al-C system. In: Frontiers in Mechanichemistry and Mechanical Alloying. Compilation of papers of proceedings INCOME 2008. Jamshedpur, 1.-4.12.2008. Ed. R. Kumar a kol.. Jamshedpur : CSIR-National Metallurgical Laboratory 2011, s.185-189

AECA – Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch konferencií

1. HRUBOVČÁKOVÁ, M. (60%) - DUDROVÁ, E. (40%) : Effect of green density on oxide reduction during sintering of chromium pre-alloyed steel. In: Euro PM 2011. Congress and exhibition. Barcelona, 9.-14.10.2011. Ed. EPMA. Shrewsbury : EPMA 2011, s.CD ROM
2. BUREŠ, R. (35%) - KOVAL, V. (35%) - FÁBEROVÁ, M. (30%) : Electric properties of Fe based soft magnetic composite. In: Euro PM 2011. Congress and exhibition. Barcelona, 9.-14.10.2011. Ed. EPMA. Shrewsbury : EPMA 2011, s.CD
3. SULOWSKI, M. (35%) - KABÁTOVÁ, M. (35%) - DUDROVÁ, E. (30%) : Mechanical properties, structure and fracture of low carbon PM steels based on Astaloy CrL and CrM powders. In: Euro PM 2011. Congress and exhibition. Barcelona, 9.-14.10.2011. Ed. EPMA. Shrewsbury : EPMA 2011, s.89-94
4. FÁBEROVÁ, M. (40%) - STREČKOVÁ, M. (30%) - BUREŠ, R. (30%) : Microstructure and mechanical properties of Fe/resin composites. In: Euro PM 2011. Congress and exhibition. Barcelona, 9.-14.10.2011. Ed. EPMA. Shrewsbury : EPMA 2011, s.CD
5. BUREŠ, R. (50%) - FÁBEROVÁ, M. (30%) - HEGEDÜS, L. (10%) - FÜZER, J. (5%) - KOLLÁR, P. (5%) : Microstructure and properties of vitroperm based soft magnetic composite. In: Euro PM 2011. Congress and exhibition. Barcelona, 9.-14.10.2011. Ed. EPMA. Shrewsbury : EPMA 2011, s.CD
6. MIŠKOVÁ, A. (25%) - DUDROVÁ, E. (25%) - KABÁTOVÁ, M. (25%) - BUREŠ, R. (25%) : Properties and compressibility of composite coated Fe/SiO₂ powders. In: Euro PM 2011. Congress and exhibition. Barcelona, 9.-14.10.2011. Ed. EPMA. Shrewsbury : EPMA 2011, s.CD
7. KABÁTOVÁ, M. (40%) - DUDROVÁ, E. (30%) - HRUBOVČÁKOVÁ, M. (30%) : Subcritical fatigue crack nucleation, coalescence and growth to failure in structural sintered steel. In: Euro PM 2011. Congress and exhibition. Barcelona, 9.-14.10.2011. Ed. EPMA. Shrewsbury : EPMA 2011, s.29-34
8. ŠKORVÁNEK, I. (20%) - MARCIN, J. (10%) - CAPIK, M. (10%) - VARGA, M. (10%) - TURČANOVÁ, J. (10%) - KOVÁČ, J. (10%) - ŠVEC, P. (10%) - JANIČKOVIČ, D. (10%) - KOVÁČ, F. (10%) : Tailoring of functional properties in Fe-based soft magnetic alloys by thermal processing under magnetic field. In: Fundamental and Applied MHD. 8th international pamir conference. Borgo, Corsica, 5.-9.9.2011. Ed. PAMIR. B.V. 2011, s.903-908
9. JANDOVÁ, D. (40%) - KASL, J. (20%) - VÝROSTKOVÁ, A. (20%) - CSIZMADIA, J. (10%) - JENEL, I. (10%) : Comparison of results of long-time creep test and ACT of dissimilar weld joint of steel P22 and P91. In: Global Trends in Joining, Cutting and Surfacing Technology. Proceedings of the IIW International Conference. 2011. Ed. D.V. Kulkarni a kol.. New Delhi : Narosa Publishing House 2011, s.910-916
10. ROSENBERG, G. (65%) - SINAIOVÁ, I. (15%) - GAŠKO, M. (15%) - JUHAR, L. (5%) : Účinok prídavku titánu a teploty navíjania na mechanické vlastnosti vysokopevných ocelí valcovaných za tepla. In:

- Přínos metalografie pro řešení výrobních problémů. 12. Česko-slovenská konferencia. Lázně Libverda, 14.-16.6.2011. Praha : ČVUT 2011, s.29-32
11. **BLACH, J.** (80%) - **FALAT, L.** (20%) - **MRENA, J.**: Únavové porušovanie súčastí leteckej techniky počas prevádzky. In: Přínos metalografie pro řešení výrobních problémů. 12. Česko-slovenská konferencia. Lázně Libverda, 14.-16.6.2011. Praha : ČVUT 2011, s.71-76
 12. **ROSENBERG, G.** (65%) - **SINAIOVÁ, I.** (15%) - **GAŠKO, M.** (15%) - **JUHAR, E.** (5%) : Vplyv mangánu na mikroštruktúru a ťahové vlastnosti ocelových plechov legovaných molybdénom a titánom. In: Přínos metalografie pro řešení výrobních problémů. 12. Česko-slovenská konferencia. Lázně Libverda, 14.-16.6.2011. Praha : ČVUT 2011, s.33-36

AFDA – Publikáčné príspevky na medzinárodných konferenciách v SR

1. **SPOTZ, Z.** (65%) - **LEEMET, T.** (5%) - **ROKICKI, P.** (10%) - **FUSOVÁ, L.** (5%) - **SAKSL, K.** (5%) - **KUOKKALA, V.** (5%) - **SIEMERS, C.** (5%) : Analysis of microstructure of annealed alloy Ti-15V-3Cr-3Sn-3Al after deformation. Chemické listy, 105, 2011, s.s586-s588
2. **ROSENBERG, G.** (70%) - **GAŠKO, M.** (15%) - **SINAIOVÁ, I.** (10%) - **HALAMA, M.** (5%) : Analýza Fe-Al medzifázovej vrstvy v Zn-povlaku ocele HX180YD. Chemické listy, 105, 2011, s.s568-s570
3. **ROKICKI, P.** (75%) - **SPOTZ, Z.** (10%) - **FUSOVÁ, L.** (5%) - **SAKSL, K.** (5%) - **SIEMERS, C.** (5%) : Chip formation process description based on hard to machine alloys (Ti-Beta and Ni based). Chemické listy, 105, 2011, s.s583-s585
4. **HEGEDUSOVÁ, L.** (50%) - **CENIGA, L.** (45%) - **DUSZA, J.** (5%) : Contact strength and crack formation in laminar ceramics. Chemické listy, 105, 2011, s.s520-s522
5. **JURKO, J.** (45%) - **DŽUPON, M.** (40%) - **PANDA, A.** (5%) - **GAJDOŠ, M.** (5%) - **PANDOVÁ, I.** (5%) : Deformácia materiálu pod obrobeneým povrchom pri výrobe dier vŕtaním do austenitickej nehrdzavejúcej ocele. Chemické listy, 105, 2011, s.s600-s602
6. **VÝROSTKOVÁ, A.** (50%) - **ČIRIPOVÁ, L.** (30%) - **HOMOLOVÁ, V.** (20%) : Difficulties we met with at production of Fe-B-V model alloys and sample preparation. Chemické listy, 105, 2011, s.s517-s519
7. **TATARKO, P.** (50%) - **KAŠIAROVÁ, M.** (40%) - **DUSZA, J.** (5%) - **ŠAJGALÍK, P.** (5%) : Effect of different sintering additives on the room temperature tribological behaviour of Si₃N₄ micro/nano composites. Chemické listy, 105, 2011, s.s491-s493
8. **DUSZOVÁ, A.** (60%) - **HORŇÁK, P.** (20%) - **HVIZDOŠ, P.** (10%) - **LOFAJ, F.** (5%) - **DUSZA, J.** (5%) : Hardness and fracture toughness of cemented carbides. Chemické listy, 105, 2011, s.s532-s534
9. **KOČIŠKO, R.** (35%) - **GAVENDOVÁ, P.** (35%) - **BIDULSKÁ, J.** (10%) - **VLADO, M.** (5%) - **BACSÓ, J.** (5%) - **KOVÁČOVÁ, A.** (5%) - **NĚMETHOVÁ, L.** (5%) : Heterogenity plastickej deformácie pri valcovaní neorientovaných elektrotechnických ocelí. Chemické listy, 105, 2011, s.s526-s528
10. **KOVALČIKOVÁ, A.** (90%) - **DUSZA, J.** (5%) - **ŠAJGALÍK, P.** (5%) : Influence of heat treatment on wear resistance of SiC based ceramics. Chemické listy, 105, 2011, s.s529-s531
11. **KOVÁČ, F.** (50%) - **PETRYSHYNETS, I.** (30%) - **STOYKA, V.** (10%) - **GAVENDOVÁ, P.** (10%) : Izotrópne elektrotechnické ocele s nízkymi wattovými stratami. Chemické listy, 105, 2011, s.s436-s438
12. **PUCHÝ, V.** (50%) - **DUSZA, J.** (20%) - **HVIZDOŠ, P.** (20%) - **INAM, F.** (5%) - **REECE, M.J.** (5%) : Mechanical and electrical properties of Al₂O₃-CNT nanocomposites. Chemické listy, 105, 2011, s.s635-s637
13. **VÝROSTKOVÁ, A.** (80%) - **SVOBODA, M.** (5%) - **HOMOLOVÁ, V.** (5%) - **FALAT, L.** (5%) - **KEPIČ, J.** (5%) : Microstructure and phase analysis of 0.5Cr-0.5Mo-0.25V creep-resistant steels after long-term service. Chemické listy, 105, 2011, s.s452-s454
14. **MOLNÁROVÁ, M.** (75%) - **KVAČKAJ, T.** (10%) - **KOVÁČ, F.** (10%) - **KOČIŠKO, R.** (5%) : On the rolling conditions of 1,5 Mn-1,8 Si steel. Chemické listy, 105, 2011, s.s462-s464
15. **PANDA, A.** (35%) - **JURKO, J.** (30%) - **DŽUPON, M.** (30%) - **PANDOVÁ, I.** (5%) : Optimalizácia tepelného spracovania ložiskových krúžkov s cieľom eliminovať deformácie materiálu. Chemické listy, 105, 2011, s.s459-s461
16. **DŽUPON, M.** (70%) - **GAJDOŠ, M.** (10%) - **JURKO, J.** (10%) - **FERDINANDY, M.** (5%) - **JAKUBÉCZYOVÁ, D.** (5%) : Plastickej deformácia v okolí vŕtaných dier austenitickej ocele 1.4301. Chemické listy, 105, 2011, s.s606-s608
17. **SOPČÁK, T.** (40%) - **BUREŠ, R.** (20%) - **STREČKOVÁ, M.** (20%) - **FÁBEROVÁ, M.** (20%) : Príprava magneticky mäkkých kompozitov na báze fenol-formaldehdydových živíc. Chemické listy, 105, 2011, s.s427-s429
18. **FERDINANDY, M.** (85%) - **LOFAJ, F.** (5%) - **DUSZA, J.** (5%) - **KOTTFFER, D.** (5%) : Príprava nanokryštalických povlakov WC rozkladom W(CO)₆ metódou PE CVD. Chemické listy, 105, 2011, s.s442-s444

19. **FALAT, L.** (80%) - **KEPIČ, J.** (5%) - **VÝROSTKOVÁ, A.** (5%) - **SVOBODA, M.** (5%) - **BRZIAK, P.** (5%) : Štruktúra a žiarupevnosť rovnorodých a nerovnorodých zvarových spojov ocele T92. Chemické listy, 105, 2011, s.s503-s505
20. **STOYKA, V.** (50%) - **KOVÁČ, F.** (30%) - **PETRYSHYNETS, I.** (14%) - **MOLNÁROVÁ, M.** (5%) - **GOMONNAI, A.** (1%) : Study of deformation state in temper rolled electrotechnical steels by EBSD method. Chemické listy, 105, 2011, s.s497-s499
21. **JAKUBÉCZYOVÁ, D.** (75%) - **HVIZDOŠ, P.** (10%) - **HAGAROVÁ, M.** (10%) - **DŽUPON, M.** (5%) : Testovanie tenkých PVD povlakov deponovaných na PM rýchloreznú oceľ. Chemické listy, 105, 2011, s.s618-s620
22. **KAŠIAROVÁ, M.** (70%) - **TATARKO, P.** (20%) - **DUSZA, J.** (5%) - **HNATKO, M.** (5%) : Thermal shock resistance of Si₃N₄-SiC measured by indentation technique. Chemické listy, 105, 2011, s.s580-s582
23. **HVIZDOŠ, P.** (60%) - **BESTERCI, M.** (35%) - **KULU, P.** (5%) : Tribological properties of Cu-Al₂O₃ composites at elevated temperatures. Chemické listy, 105, 2011, s.s433-s435
24. **MIŠKOVÁ, A.** (40%) - **KABÁTOVÁ, M.** (40%) - **DUDROVÁ, E.** (20%) : Vlastnosti a lisovateľnosť kompozitných povlakovaných Fe/SiO₂ práškov. Chemické listy, 105, 2011, s.s500-s502
25. **ČIRIPOVÁ, L.** (70%) - **DUDROVÁ, E.** (30%) : Vplyv mikroštruktúry na lomovú húževnatosť Fe-Cr-Mo spekanej ocele. Chemické listy, 105, 2011, s.s474-s476
26. **HRUBOVČÁKOVÁ, M.** (60%) - **DUDROVÁ, E.** (40%) : Vplyv podmienok spekania práškovej ocele Fe-Cr-Mo-C na redukčné procesy. Chemické listy, 105, 2011, s.s477-s479
27. **HAGAROVÁ, M.** (45%) - **JAKUBÉCZYOVÁ, D.** (45%) - **VNOUČEK, M.** (10%) : Využitie moderných metód na stanovenie vlastností tenkých vrstiev. Chemické listy, 105, 2011, s.s561-s563
28. **BRUNCKOVÁ, H.** (60%) - **MEDVECKÝ, I.** (30%) - **ĎURIŠIN, J.** (10%) : Vývoj mikroštruktúry a fázová transformácia sol-gel prekursorov bezolovnatých feroelektrických (K, Na)NbO₃ tenkých filmov. Chemické listy, 105, 2011, s.s424-s426
29. **CSEHOVÁ, E.** (70%) - **DUSZA, J.** (20%) - **HVIZDOŠ, P.** (5%) - **SEDLÁČEK, J.** (5%) : Wear properties of Al₂O₃/SiC_p composites. Chemické listy, 105, 2011, s.s448-s451

AAA - Vedecké monografie zahraničné

1. **CENIGA, L.** (100%) : Analytical models of thermal stresses in composite materials . Vol. 3. Nova Science Publishers 2011

AEFA – Vedecké práce v domácich nerecenzovaných vedeckých zborníkoch konferencií

1. **FEDORKOVÁ, A.** (30%) - **ORIŇÁKOVÁ, R.** (30%) - **KUPKOVÁ, M.** (30%) - **KALAVSKÝ, F.** (10%) : Korózne vlastnosti dutých pokovených častíc. In: 53. medzinárodná galvanická konferencia. Kočovce, 15.-16.6.2011. Bratislava : STU 2011, s.36-41
2. **VÝROSTKOVÁ, A.** (40%) - **KEPIČ, J.** (30%) - **MACKO, R.** (25%) - **HOMOLOVÁ, V.** (5%) : Influence of exploitation on degradation of 0.5Cr-0.5Mo-0.25V steel microstructure. In: Degradácia konštrukčných materiálov 2011. 12. vedecká konferencia konferencia so zahraničnou účasťou. Terchová, 12.-14.9.2011. Žilina : Žilinská univerzita 2011, s.61-64
3. **ROSENBERG, G.** (65%) - **GAŠKO, M.** (20%) - **SINAIOVÁ, I.** (10%) - **KOČÍK, M.** (5%) - **JUHAR, E.** : Únavová odolnosť vysokopevných ocelí valcovaných za tepla určených pre tvárnenie za studena. In: Degradácia konštrukčných materiálov 2011. 12. vedecká konferencia konferencia so zahraničnou účasťou. Terchová, 12.-14.9.2011. Žilina : Žilinská univerzita 2011, s.131-135
4. **ROSENBERG, G.** (100%) : Vplyv tryskania a mikroštruktúry na únavovú odolnosť nízkouhlíkovej ocele. In: Degradácia konštrukčných materiálov 2011. 12. vedecká konferencia konferencia so zahraničnou účasťou. Terchová, 12.-14.9.2011. Žilina : Žilinská univerzita 2011, s.126-130
5. **GAŠKO, M.** (50%) - **ROSENBERG, G.** (50%) : Correlation between hardness and tensile properties in ultra-high strength dual phase steels. In: Konštrukčné materiály 2011. Vedecká konferencia s medzinárodnou účasťou. Žilina, 28.4.2011. Žilina : Sjf ŽU 2011, s.CD ROM
6. **GAVENDOVÁ, P.** (40%) - **PETRYSHYNETS, I.** (20%) - **MOLNÁROVÁ, M.** (20%) - **STOYKA, V.** (20%) : Grain growth kinetic in non-oriented steels under gradient deformation. In: Metalurgia Junior 2011. Faculty of Metallurgy PhD Students Day. Košice : HF TU 2011, s.183-186
7. **GAVENDOVÁ, P.** (40%) - **MOLNÁROVÁ, M.** (20%) - **PETRYSHYNETS, I.** (20%) - **STOYKA, V.** (20%) : Stanovenie rozdielov v mechanických vlastnostiach nanoindentačnou metódou medzi jednotlivými

zrnovými orientáciami v elektrotechnických oceliach. In: Metalurgia Junior 2011. Faculty of Metallurgy PhD Students Day. Košice : HF TU 2011, s.179-182

AEEA – Vedecké práce v zahraničných nerecenzovaných vedeckých zborníkoch konferencií

1. **TATARKO, P.** (70%) - **KAŠIAROVÁ, M.** (15%) - **LOJANOVÁ, Š.** (5%) - **DUSZA, J.** (5%) - **ŠAJGALÍK, P.** (5%) : Mechanical properties of rare-earth doped Si_3N_4 and $\text{Si}_3\text{N}_4\text{-SiC}$ micro/nanoceramics. In: ECERS 12. 12th conference of the European Ceramic Society. Stockholm, 2011. B.V. 2011
2. **KAŠIAROVÁ, M.** (70%) - **TATARKO, P.** (20%) - **DUSZA, J.** (5%) - **HNATKO, M.** (5%) : Oxidation resistance of $\text{Si}_3\text{N}_4\text{-SiC}$ micro-nanocomposites. In: ECERS 12. 12th conference of the European Ceramic Society. Stockholm, 2011. B.V. 2011
3. **FALAT, L.** (40%) - **KEPIČ, J.** (40%) - **VÝROSTKOVÁ, A.** (10%) - **BRZIAK, P.** (5%) - **SVOBODA, M.** (5%) : Štruktúrne a creepové charakteristiky homogénnych a heterogénnych zvarových spojov ocele T92. In: Kotle a energetická zařízení 2011. 20. ročník odborné konference s mezinárodní účastí. Brno, 14.-16.3.2011. B.V. 2011, s.CD ROM
4. **VÝROSTKOVÁ, A.** (60%) - **MACKO, R.** (20%) - **BLACH, J.** (10%) - **FALAT, L.** (10%) : Investigation of Cr-Mo/W-V steels heat affected zones sensitivity to hydrogen embrittlement. In: Metal 2011. 20. jubilejní ročník mezinárodní konference metalurgie a materiálů. Brno, 18.-20.5.2011. Ostrava : Tanger, s.r.o. 2011, s.CD ROM
5. **KUPKOVÁ, M.** (60%) - **SINAIOVÁ, I.** (25%) - **ORIŇÁKOVÁ, R.** (5%) - **KLADKOVÁ, D.** (5%) - **KALAVSKÝ, F.** (5%) : Hardness and indentation size effect in PM materials prepared from coated powders. In: Vrstvy a povlaky 2011. Zborník prednášok. Rožnov pod Radhoštěm, 17.-18.10.2011. Trenčín : Miloš Vavřík 2011, s.95-100
6. **JAKUBÉCZYOVÁ, D.** (80%) - **HAGAROVÁ, M.** (15%) - **ŠTĚPÁNEK, I.** (5%) : Hodnotenie tenkých PVD vrstiev nanoindentačnou skúškou. In: Vrstvy a povlaky 2011. Zborník prednášok. Rožnov pod Radhoštěm, 17.-18.10.2011. Trenčín : Miloš Vavřík 2011, s.49-53
7. **KUPKOVÁ, M.** (90%) - **ORIŇÁKOVÁ, R.** (5%) - **KLADKOVÁ, D.** (5%) : Preparation of Cu and Cu-Ni coated iron microparticles and their behaviour during compaction. In: Vrstvy a povlaky 2011. Zborník prednášok. Rožnov pod Radhoštěm, 17.-18.10.2011. Trenčín : Miloš Vavřík 2011, s.89-93
8. **FERDINANDY, M.** (70%) - **LOFAJ, F.** (10%) - **DUSZA, J.** (10%) - **KOTTFFER, D.** (10%) : Příprava povlakov WC rozkladom $\text{W}(\text{CO})_6$ metódou PE CVD. In: Vrstvy a povlaky 2011. Zborník prednášok. Rožnov pod Radhoštěm, 17.-18.10.2011. Trenčín : Miloš Vavřík 2011, s.37-40
9. **HORŇÁK, P.** (80%) - **FERDINANDY, M.** (10%) - **LOFAJ, F.** (10%) : The effect of magnetron sputtering mode on nanohardness of WC/C coatings. In: Vrstvy a povlaky 2011. Zborník prednášok. Rožnov pod Radhoštěm, 17.-18.10.2011. Trenčín : Miloš Vavřík 2011, s.47
10. **DŽUPON, M.** (90%) - **JAKUBÉCZYOVÁ, D.** (10%) : Vplyv povrchových defektov na porušenie žiarovo zinkovaných častí konštrukcií. In: Vrstvy a povlaky 2011. Zborník prednášok. Rožnov pod Radhoštěm, 17.-18.10.2011. Trenčín : Miloš Vavřík 2011, s.31-35

AFA - Publikované pozvané referáty na zahraničných konferenciách

1. **TATARKO, P.** - **DUSZA, J.** (100%) - **ŠAJGALÍK, P.**: Rare-earth oxides doped Si_3N_4 and $\text{Si}_3\text{N}_4\text{/SiC}$ ceramics. PAC RIM 9. The 9th International Meeting of Pacific Rim Ceramic Societies. Cairns, 10.-14.7.2011. B.V. 2011

AEDA - Vedecké práce v domácich recenzovaných vedeckých zborníkoch konferencií

1. **TKÁČ, M.** (34%) - **CIŽIKOVÁ, A.** (33%) - **KOVALČÍKOVÁ, A.** (33%) : Oxidačná odolnosť konštrukčných keramických materiálov na báze karbidu kremíka. In: ERIN 2011. 5th annual international travelling conference for young researchers and PhD students. Tarasovská Kotlina-Vysoké Tatry. Ed. A. Tarasovičová a kol.. B.V. 2011, s.479-484
2. **MEDVECKÝ, Ľ.** (40%) - **MIHALIK, J.** (20%) - **KAŠIAROVÁ, M.** (20%) - **BRUNCKOVÁ, H.** (20%) : Mikroštruktúra a vlastnosti kalcium fosfátových cementov s nanokryštalickou apatitovou fázou. In:

- Implantológia a pokročilé implantáty. Zborník referátov. Košice, 28.11.2011. Ed. A. Jenča, L. Medvecký. Košice : LF UPJŠ a ÚMV SAV 2011, s.73-78
3. **HORNÁK, P.** (80%) - **FERDINANDY, M.** (15%) - **LOFAJ, F.** (5%) : GDOES analýza WC-C povlakov pripravených metódou PECVD. In: Materiál v inžinierskej praxi 2011. 8. Medzinárodná vedecko-technická konferencia. CD ROM. Herľany, 4.-6.5.2011. Košice : HF TU 2011, s.224-225
 4. **TATARKO, P.** (65%) - **KAŠIAROVÁ, M.** (20%) - **LOJANOVÁ, Š.** (5%) - **DUSZA, J.** (5%) - **ŠAJGALÍK, P.** (5%) : Characterization of Si₃N₄-SiC micro-nano composites sintered with rare-earth oxides additives. In: Preparation of Ceramic Materials. 9th International Conference. Herľany, 14.-16.6.2011. Ed. T. Kuffa a kol.. Košice : HF TU 2011, s.62-66
 5. **BRUNCKOVÁ, H.** (60%) - **MEDVECKÝ, Ľ.** (40%) : Effect of the substrate on morphology of sol-gel prepared lead-free ferroelectric (K_{0.5}Na_{0.5})NbO₃ thin films. In: Preparation of Ceramic Materials. 9th International Conference. Herľany, 14.-16.6.2011. Ed. T. Kuffa a kol.. Košice : HF TU 2011, s.21-25
 6. **MEDVECKÝ, Ľ.** (20%) - **ŠTULAJTEROVÁ, R.** (20%) - **KUTSEV, S.** (20%) - **BRUNCKOVÁ, H.** (20%) - **SOPČÁK, T.** (20%) : Macroporous composites based on polyhydroxybutyrate and calcium phosphate cement. In: Preparation of Ceramic Materials. 9th International Conference. Herľany, 14.-16.6.2011. Ed. T. Kuffa a kol.. Košice : HF TU 2011, s.168-169
 7. **HORNÁK, P.** (45%) - **FERDINANDY, M.** (25%) - **LOFAJ, F.** (10%) - **MIKULA, M.** (10%) - **CEMPURA, G.** (5%) : Nanohardness study of magnetron sputtered TiB_x and WC-C_x coatings. In: Preparation of Ceramic Materials. 9th International Conference. Herľany, 14.-16.6.2011. Ed. T. Kuffa a kol.. Košice : HF TU 2011, s.166-167
 8. **DUSZOVÁ, A.** (70%) - **HORNÁK, P.** (10%) - **HVIZDOŠ, P.** (10%) - **LOFAJ, F.** (5%) - **DUSZA, J.** (5%) : Nanoindentation of WC-Co cemented carbides. In: Preparation of Ceramic Materials. 9th International Conference. Herľany, 14.-16.6.2011. Ed. T. Kuffa a kol.. Košice : HF TU 2011, s.165
 9. **KAŠIAROVÁ, M.** (70%) - **TATARKO, P.** (20%) - **DUSZA, J.** (5%) - **HNATKO, M.** (5%) : Oxidation resistance of Si₃N₄-based composites. In: Preparation of Ceramic Materials. 9th International Conference. Herľany, 14.-16.6.2011. Ed. T. Kuffa a kol.. Košice : HF TU 2011, s.67-70
 10. **HNATKO, M.** - **ŠAJGALÍK, P.** - **LOFAJ, F.** - **VOJTAŠŠÁK, J.** : Processing and properties of porous Si₃N₄ ceramics for bioapplications. In: Preparation of Ceramic Materials. 9th International Conference. Herľany, 14.-16.6.2011. Ed. T. Kuffa a kol.. Košice : HF TU 2011, s.170-171
 11. **LOFAJ, F.** (60%) - **MIKULA, M.** (20%) - **GRANČIČ, B.** (5%) - **CEMPURA, G.** (5%) - **HORNÁK, P.** (5%) - **KOTTFER, D.** (5%) : Tribological properties of TiB_x and WC/C coatings. In: Preparation of Ceramic Materials. 9th International Conference. Herľany, 14.-16.6.2011. Ed. T. Kuffa a kol.. Košice : HF TU 2011, s.17-18
 12. **SAS, J.** (20%) - **KOVÁČOVÁ, A.** (20%) - **POKORNÝ, I.** (20%) - **NÉMETHOVÁ, L.** (20%) - **MOLNÁROVÁ, M.** (20%) : Influence of plastic deformation and finish rolling temperature on properties of HSLA steel rolled in dual phase area alpha + gamma. In: Steel Strip 2011. The 8th International Conference. Stará Lesná, 4.-6.10.2011. Ed. T. Kvačkaj. Spoločnosť Ocelové pásy 2011, s.203-206
 13. **KVAČKAJ, T.** (35%) - **MOLNÁROVÁ, M.** (30%) - **MIŠIČKO, R.** (5%) - **FUJDA, M.** (5%) - **KVAČKAJ, M.** (5%) - **BIDULSKÁ, J.** (5%) - **BACSO, J.** (5%) - **KOČIŠKO, R.** (5%) - **LUPTÁK, M.** : Structural development of trip steel after controlled thermo-mechanical processing. In: Steel Strip 2011. The 8th International Conference. Stará Lesná, 4.-6.10.2011. Ed. T. Kvačkaj. Spoločnosť Ocelové pásy 2011, s.214-220
 14. **PETRYSHYNETS, I.** (50%) - **KOVÁČ, F.** (40%) - **STOYKA, V.** (10%) : Application of unconventional dynamical heat treatment conditions in production of grain-oriented electrical steels. In: Technológia 2011. 12. medzinárodná konferencia. Bratislava, 13.9.2011. Ed. V. Hrnčiar. Bratislava : Sjf STU 2011, s.136-139
 15. **KOVÁČ, F.** (50%) - **PETRYSHYNETS, I.** (30%) - **STOYKA, V.** (10%) - **GAVENDOVÁ, P.** (10%) : Izotropné elektrotechnické ocele s nízkymi wattovými stratami. In: Technológia 2011. 12. medzinárodná konferencia. Bratislava, 13.9.2011. Ed. V. Hrnčiar. Bratislava : Sjf STU 2011, s.102-105
 16. **HRUBOVČÁKOVÁ, M.** (60%) - **DUDROVÁ, E.** (40%) : Vplyv parametrov spekania na redukciu oxidov počas spekania chrómom pred-legovanej ocele. In: Technológia 2011. 12. medzinárodná konferencia. Bratislava, 13.9.2011. Ed. V. Hrnčiar. Bratislava : Sjf STU 2011, s.56-61
 17. **ROSENBERG, G.** (80%) - **GAŠKO, M.** (10%) - **SINAIOVÁ, I.** (5%) - **JUHAR, Ľ.** (5%) : Vývoj novej ultravysokopevnej dvojfázovej ocele vhodnej pre tvárnenie za studena. In: Transfer 2011. Využívanie nových poznatkov v strojárskych praxi. 12.medzinárodná vedecká konferencia. Trenčín, 23.-24.11.2011. Ed. O. Híreš a kol.. Trenčín : Fakulta špeciálnej techniky TU AD 2011, s.CD ROM

DAIa - Kvalifikačné práce - doktorandské v slovenčine

1. **MIŠKOVÁ, A.:** Kompaktizácia a vlastnosti práškových mikrokompozitných materiálov. Dizertačná práca. Košice : ÚMV SAV 2011, 251 s.
2. **HRUBOVČÁKOVÁ, M.** (100%) : Mikrochémia interfázových oblastí spekaných mikroštruktúr spekaných vysokopevných ocelí. Dizertačná práca. Košice : ÚMV SAV 2011
3. **VARCHOLA, M.** (100%) : Vplyv vonkajších faktorov na stabilitu mikroštruktúry a vlastnosti mikro a nanokompozitov Al-Al₄C₃. Dizertačná práca. Košice : ÚMV SAV 2011, 137 s.

DAIb – Kvalifikačné práce – doktorandské v angličtine

1. **ROKICKI, P.** (100%) : Analysis of high-speed machining titanium and nickel alloys. Dizertačná práca. Košice : ÚMV SAV 2011, 106 s.
2. **SHYKULA, P.** (100%) : Master alloys in powder metallurgy. Dizertačná práca. Košice : ÚMV SAV 2011, 245 s.
3. **TATARKO, P.** (100%) : Mechanical properties of non-oxide ceramic materials with rare-earth oxide sintering additives. Dizertačná práca. Košice : ÚMV SAV 2011, 141 s.
4. **PUCHÝ, V.:** Microstructure and properties of ceramic nanocomposites reinforced with carbon nanotubes. Dizertačná práca. Košice : ÚMV SAV 2011, 119 s.

ABC - Kapitoly v zahraničných vedeckých monografiách

1. HRYHA, E. (50%) - **DUDROVÁ, E.** (50%) : The sintering behaviour of Fe-Mn-C powder system, correlation between thermodynamics and sintering process, manganese distribution and microstructure composition, effect of alloying mode. In: Application of Thermodynamics to Biological and Materials Science. ISBN 978-953-307-980-6. Ed. M. Tadashi. www.intechopen.com/articles/show/title/the-sintering-... 2011, s.573-602
2. **BESTERCI, M.** (60%) - **SÜLLEIOVÁ, K.** (15%) - KVAČKAJ, T. (15%) - KOČIŠKO, R. (10%) : Numerical simulation, formation of microstructure and mechanical properties of nanocopper prepared by severe plastic deformation. In: International Journal of Materials and Product Technology, 40, 2011, no. 1/2, s.36-57
3. PEŠEK, L. (45%) - ZUBKO, P. (15%) - **BESTERCI, M.** (40%) : Local mechanical properties of materials based on matrix-particles system. In: International Journal of Materials and Product Technology, vol. 40, 2011, s.226-249
4. **HVIZDOŠ, P.** (85%) - **PUCHÝ, V.** (5%) - **DUSZOVÁ, A.** (5%) - **DUSZA, J.** (5%) : Carbon nanofibers reinforced ceramic matrix composites. In: Nanofibers - production, properties and functional applications. Ed. Tong Lin. Rijeka : InTech Publisher 2011, s.241-266

AAB – Vedecké monografie domáce

3. BRIANČIN, J. (60%) - **MEDVECKÝ, Ľ.** (40%) : Elektrokeramické materiály. Košice : HF TU, ÚGT SAV, ÚMV SAV 2011, 73 s.

Písomná časť PhD prác v slovenčine

1. **GAVENDOVÁ, P.** (100%) : Deformačne indukovaný selektívny rast zrn v elektrotechnických oceliach. Písomná práca k dizertačnej skúške. Košice : ÚMV SAV 2011, 76 s.
2. **KEPIČ, J.** (100%) : Degradácia štruktúry a vlastností zvarových spojov progresívnych žiarupevných ocelí. Písomná práca k dizertačnej skúške. Košice : ÚMV SAV 2011, 72 s.

Písomná časť PhD prác v angličtine

1. **DUSZOVÁ, A.** (100%) : Micro/nano tribology and indentation of WC-based materials. Written part of dissertation examination. Košice : ÚMV SAV 2011, 108 s.

AGL - podaný vynález, patent domáci

1. **KOVÁČ, F.** (70%) - **PETRYSHYNETS, I.** (20%) - **STOYKA, V.** (5%) - **KVAČKAJ, T.** (3%) - **ŠKORVÁNEK, I.** (2%) : Spôsob výroby izotropných elektrotechnických ocelí s nízkymi wattovými stratami. Podaný patent č. PP 00009-2011. Banská Bystrica : Úrad priemyselného vlastníctva SR 2011

DAL – Kvalifikačné práce - habilitačné v angličtine

1. **LOFAJ, F.** (100%) : Creep mechanisms in the high-performance silicon nitride ceramics. Habilitačná práca na získanie titulu docenta. Trnava : MTF STU 2011, 64 s.

AFHA - Abstrakty príspevkov z medzinárodných konferencií v SR

1. **KAŠIAROVÁ, M.** (70%) - **TATARKO, P.** (20%) - **DUSZA, J.** (5%) - **ŠAJGALÍK, P.** (5%) : Indentation thermal shock resistance of Si₃N₄-SiC micro-nanocomposites. In: Engineering Ceramics 2011: from materials to components. Advanced research workshop. Book of abstracts. Smolenice, 8.-12.5.2011. Ed. P. Šajgalík, Z. Lenčes. Bratislava : ÚACH SAV 2011, s.87
2. **TATARKO, P.** (80%) - **KAŠIAROVÁ, M.** (10%) - **DUSZA, J.** (5%) - **ŠAJGALÍK, P.** (5%) : Influence of rare-earth oxide additives on the high-temperature mechanical properties of Si₃N₄-based ceramics. In: Engineering Ceramics 2011: from materials to components. Advanced research workshop. Book of abstracts. Smolenice, 8.-12.5.2011. Ed. P. Šajgalík, Z. Lenčes. Bratislava : ÚACH SAV 2011, s.98
3. **LOFAJ, F.** (60%) - **FERDINANDY, M.** (15%) - **HORNÁK, P.** (10%) - **CEMPURA, G.** (5%) - **DUSZA, J.** (5%) : Nanomechanical properties of thin nc-WC/a-C composite coatings. In: Engineering Ceramics 2011: from materials to components. Advanced research workshop. Book of abstracts. Smolenice, 8.-12.5.2011. Ed. P. Šajgalík, Z. Lenčes. Bratislava : ÚACH SAV 2011, s.67
4. **HNATKO, M.** (60%) - **ŠAJGALÍK, P.** (15%) - **LOFAJ, F.** (10%) - **VOJTAŠŠÁK, J.** (5%) : Porous silicon nitride ceramics for bioapplications. In: Engineering Ceramics 2011: from materials to components. Advanced research workshop. Book of abstracts. Smolenice, 8.-12.5.2011. Ed. P. Šajgalík, Z. Lenčes. Bratislava : ÚACH SAV 2011, s.83
5. **HVIZDOŠ, P.** (80%) - **PUCHÝ, V.** (10%) - **DUSZOVÁ, A.** (5%) - **DUSZA, J.** (5%) : Tribological and electrical properties of ceramic matrix composites with carbon nanotubes. In: Engineering Ceramics 2011: from materials to components. Advanced research workshop. Book of abstracts. Smolenice, 8.-12.5.2011. Ed. P. Šajgalík, Z. Lenčes. Bratislava : ÚACH SAV 2011, s.47
6. **TATARKO, P.** - **DUSZA, J.** - **ŠAJGALÍK, P.** : Tribological characteristics of Si₃N₄-SiC micro/nano composites. In: Engineering Ceramics 2011: from materials to components. Advanced research workshop. Book of abstracts. Smolenice, 8.-12.5.2011. Ed. P. Šajgalík, Z. Lenčes. Bratislava : ÚACH SAV 2011, s.48

AFG - Abstrakty príspevkov zo zahraničných konferencií

1. **HVIZDOŠ, P.** (90%) - **PUCHÝ, V.** (10%) : Mechanical and tribological properties of Al₂O₃-ZrO₂ composites prepared by EPD. In: 4th international conference on Electrophoretic deposition: fundamentals and applications. Puerto Vallarta, 2.-7.10.2011. New York : Engineering Conference International 2011
2. **DUSZA, J.** : Centre of excellence NanoCEXmat. In: Advanced Materials and Technologies. International Workshop. Budapest, 23.-25.3.2011. Ed. I. Bársony a kol.. Budapest : MTA-MFA 2011
3. **HEGEDUSOVÁ, L.** (50%) - **CENIGA, L.** (45%) - **DUSZA, J.** (5%) : Contact strength of advanced ceramics. In: Advanced Materials and Technologies. International Workshop. Budapest, 23.-25.3.2011. Ed. I. Bársony a kol.. Budapest : MTA-MFA 2011

4. **DUSZOVÁ, A.** (80%) - **HORŇÁK, P.** (5%) - **HVIZDOŠ, P.** (5%) - **LOFAJ, F.** (5%) - **DUSZA, J.** (5%) : Indentation testing of WC-Co hardmetals. In: Advanced Materials and Technologies. International Workshop. Budapest, 23.-25.3.2011. Ed. I. Bársony a kol.. Budapest : MTA-MFA 2011
5. **KOVALČÍKOVÁ, A.** (94%) - **BALÁZSI, C.** (2%) - **TAPASZTÓ, O.** (2%) - **DUSZA, J.** (2%) : Indentation thermal shock resistance of Si₃N₄/CNTs composites. In: Advanced Materials and Technologies. International Workshop. Budapest, 23.-25.3.2011. Ed. I. Bársony a kol.. Budapest : MTA-MFA 2011
6. **HORŇÁK, P.** (80%) - **FERDINANDY, M.** (10%) - **LOFAJ, F.** (10%) : Influence of deposition conditions of PECVD WC-C coatings on micro/nano hardness. In: Advanced Materials and Technologies. International Workshop. Budapest, 23.-25.3.2011. Ed. I. Bársony a kol.. Budapest : MTA-MFA 2011
7. **HVIZDOŠ, P.** (100%) : Key research facilities at IMR SAS. In: Advanced Materials and Technologies. International Workshop. Budapest, 23.-25.3.2011. Ed. I. Bársony a kol.. Budapest : MTA-MFA 2011
8. **TATARKO, P.** - **DUSZA, J.** - **ŠAJGALÍK, P.**: Mechanical properties of Si₃N₄-SiC nanocomposites. In: Advanced Materials and Technologies. International Workshop. Budapest, 23.-25.3.2011. Ed. I. Bársony a kol.. Budapest : MTA-MFA 2011
9. **CSEHOVÁ, E.** (80%) - **DUSZA, J.** (10%) - **LIMPICHAIPANIT, A.** (5%) - **SEDLÁČEK, J.** (5%) : Microstructure and mechanical properties of Al₂O₃/SiC_p composites. In: Advanced Materials and Technologies. International Workshop. Budapest, 23.-25.3.2011. Ed. I. Bársony a kol.. Budapest : MTA-MFA 2011
10. **PUCHÝ, V.** (60%) - **HVIZDOŠ, P.** (35%) - **DUSZA, J.** (5%) : Microstructure and mechanical properties of ZrO₂-CNFs composites. In: Advanced Materials and Technologies. International Workshop. Budapest, 23.-25.3.2011. Ed. I. Bársony a kol.. Budapest : MTA-MFA 2011
11. **KAŠIAROVÁ, M.** (70%) - **TATARKO, P.** (20%) - **HNATKO, M.** (5%) - **DUSZA, J.** (5%) : Oxidation characteristics of Si₃N₄ based ceramics. In: Advanced Materials and Technologies. International Workshop. Budapest, 23.-25.3.2011. Ed. I. Bársony a kol.. Budapest : MTA-MFA 2011
12. **LOFAJ, F.** (100%) : Research activities at IMR SAS. In: Advanced Materials and Technologies. International Workshop. Budapest, 23.-25.3.2011. Ed. I. Bársony a kol.. Budapest : MTA-MFA 2011
13. **BESTERCI, M.** (25%) - **VELGOSOVÁ, O.** (25%) - **KOVÁČ, L.** (25%) - **VARCHOLA, M.** (25%) : Influence of volume fraction on superplastic deformation of Al-Al₄C₃ system prepared by mechanical alloying. In: INCOME 2011. 7th international conference on mechanochemistry and mechanical alloying. Book of abstracts. Herceg Novi, 31.8.-3.9.2011. Ed. D. Dragan. Belgrade : Materials Research of Serbia 2011, s.7
14. **LOFAJ, F.** (80%) - **DUSZA, J.** (20%) : Local elastic properties of WC-CO. In: International Indentation Workshop 4. IIW 4. Abstract book. Seoul, 3.-8.7.2011. B.V. 2011
15. **QUADE, H.** (20%) - **STEFFEN, A.** (20%) - **GAVENDOVÁ, P.** (20%) - **PRAHL, U.** (20%) - **BLECK, W.** (20%) : Experimental techniques for the microstructural characterization of retained austenite stability, single phase properties and failure mechanisms in low-alloyed trip-steels. In: Local mechanical properties 2011. 8th international conference. Book of abstracts. Olomouc, 9.-11.11.2011. Ed. R. Čtvrtlík. Olomouc : Palacký University 2011, s.65
16. **KUPKOVÁ, M.** (60%) - **KUPKA, M.** (10%) - **SINAIOVÁ, I.** (10%) - **KABÁTOVÁ, M.** (10%) - **HVIZDOŠ, P.** (10%) : Hardness and indentation size effect in materials sintered from copper-coated iron powders. In: Local mechanical properties 2011. 8th international conference. Book of abstracts. Olomouc, 9.-11.11.2011. Ed. R. Čtvrtlík. Olomouc : Palacký University 2011, s.44
17. **DUSZOVÁ, A.** (80%) - **HORŇÁK, P.** (5%) - **HVIZDOŠ, P.** (5%) - **LOFAJ, F.** (5%) - **DUSZA, J.** (5%) : Indentation fatigue of WC-Co cemented carbides. In: Local mechanical properties 2011. 8th international conference. Book of abstracts. Olomouc, 9.-11.11.2011. Ed. R. Čtvrtlík. Olomouc : Palacký University 2011, s.18
18. **HALGAŠ, R.** (60%) - **DUSZA, J.** (10%) - **KOVÁCISOVÁ, L.** (10%) - **KAIFEROVÁ, J.** (10%) - **MARKOVSKÁ, N.** (10%) : Indentation testing of human enamel. In: Local mechanical properties 2011. 8th international conference. Book of abstracts. Olomouc, 9.-11.11.2011. Ed. R. Čtvrtlík. Olomouc : Palacký University 2011, s.26
19. **FORRAIOVÁ, L.** - **DORČÁKOVÁ, F.** - **DUSZA, J.** - **KUN, P.** - **BALÁZSI, C.**: Indentation toughness of Si₃N₄ reinforced with graphene platelets. In: Local mechanical properties 2011. 8th international conference. Book of abstracts. Olomouc, 9.-11.11.2011. Ed. R. Čtvrtlík. Olomouc : Palacký University 2011, s.23
20. **MOLNÁROVÁ, M.** (40%) - **GAVENDOVÁ, P.** (40%) - **KVAČKAJ, T.** (10%) - **KOVÁČ, F.** (10%) : Nanohardness testing of multiphase C-Mn-Si steel. In: Local mechanical properties 2011. 8th international conference. Book of abstracts. Olomouc, 9.-11.11.2011. Ed. R. Čtvrtlík. Olomouc : Palacký University 2011, s.56
21. **GAJDOŠ, M.** (35%) - **JURKO, J.** (30%) - **DŽUPON, M.** (30%) - **PANDA, A.** (5%) : Study changes in mechanical properties of stainless steels X02Cr18Ni9TiMo under the surface finish when drilling. In: Local

- mechanical properties 2011. 8th international conference. Book of abstracts. Olomouc, 9.-11.11.2011. Ed. R. Čtvrtlík. Olomouc : Palacký University 2011, s.24
22. **GAVENDOVÁ, P.** (20%) - **ČTVRTLÍK, R.** (20%) - **KOVÁČ, F.** (20%) - **PEŠEK, L.** (20%) - **PETRYSHYNETS, I.** (20%) : Temperature and grain orientation dependence of indentation properties on electrotechnical steel. In: Local mechanical properties 2011. 8th international conference. Book of abstracts. Olomouc, 9.-11.11.2011. Ed. R. Čtvrtlík. Olomouc : Palacký University 2011, s.25
 23. **HORNÁK, P.** (80%) - **FERDINANDY, M.** (10%) - **LOFAJ, F.** (10%) : The effect of magnetron sputtering mode on coefficient of friction of WC/C coatings. In: Local mechanical properties 2011. 8th international conference. Book of abstracts. Olomouc, 9.-11.11.2011. Ed. R. Čtvrtlík. Olomouc : Palacký University 2011, s.28
 24. **FALAT, L.** (85%) - **VÝROSTKOVÁ, A.** (5%) - **KEPIČ, J.** (5%) - **ČIRIPOVÁ, L.** (5%) : The influence of isothermal annealing on degradation of mechanical properties of homogeneous weldment of the 9Cr-Mo steel. In: Local mechanical properties 2011. 8th international conference. Book of abstracts. Olomouc, 9.-11.11.2011. Ed. R. Čtvrtlík. Olomouc : Palacký University 2011, s.22
 25. **LOFAJ, F.** (80%) - **FERDINANDY, M.** (10%) - **HORNÁK, P.** (10%) : The optimization of nanohardness and tribological properties of PECVD and magnetron sputtered WC-C coatings. In: Local mechanical properties 2011. 8th international conference. Book of abstracts. Olomouc, 9.-11.11.2011. Ed. R. Čtvrtlík. Olomouc : Palacký University 2011, s.45
 26. **KOVAI, V.** (80%) - **YAN, H.** (5%) - **MITOSERIU, L.** (5%) - **ŠKORVÁNEK, I.** (5%) - **REECE, M.J.** (5%) : Crystal structure and multiferroic properties of dysprosium-substituted bismuth ferrite ceramics. In: On the processing and properties of nanostructured single- and multiphase ferroics and multiferroics: Strengths, needs and joint initiatives. Conference of the COST MP0904 action. Bordeaux, 30.6.-1.7.2011. European Science Foundation 2011, s.23
 27. **LOFAJ, F.** (65%) - **CEMPURA, G.** (10%) - **FERDINANDY, M.** (10%) - **HORNÁK, P.** (10%) - **DUSZA, J.** (5%) : Transfer film in a friction contact in the nanocomposite WC-C coatings. In: PAC RIM 9. The 9th International Meeting of Pacific Rim Ceramic Societies. Cairns, 10.-14.7.2011. B.V. 2011
 28. **HEGEDUSOVÁ, L.** - **CENIGA, L.** - **DUSZA, J.**: Contact strength and cracking in ceramics. In: RP DEMATEN. Final workshop of FP7 REGPOT-2007-3 DEMATEN. Processing of Nanostructured Ceramics and Nanocomposites. Abstracts. Brno, 3.-5.3.2011. Ed. K. Maca, M. Trunec. Novi Sad : Faculty of Technology, University of Novi Sad 2011, s.54
 29. **DUSZA, J.**: Hardness of individual planes of Si₃N₄ crystals. In: RP DEMATEN. Final workshop of FP7 REGPOT-2007-3 DEMATEN. Processing of Nanostructured Ceramics and Nanocomposites. Abstracts. Brno, 3.-5.3.2011. Ed. K. Maca, M. Trunec. Novi Sad : Faculty of Technology, University of Novi Sad 2011, s.30
 30. **KAŠIAROVÁ, M.** (80%) - **DUSZA, J.** (10%) - **HNATKO, M.** (5%) - **ŠAJGALÍK, P.** (5%) : High temperature mechanical properties of Si₃N₄ nanocomposites. In: RP DEMATEN. Final workshop of FP7 REGPOT-2007-3 DEMATEN. Processing of Nanostructured Ceramics and Nanocomposites. Abstracts. Brno, 3.-5.3.2011. Ed. K. Maca, M. Trunec. Novi Sad : Faculty of Technology, University of Novi Sad 2011, s.30
 31. **KOVALČÍKOVÁ, A.** (90%) - **DUSZA, J.** (5%) - **ŠAJGALÍK, P.** (5%) : Indentation thermal shock resistance of liquid-phase-sintered SiC based ceramics. In: RP DEMATEN. Final workshop of FP7 REGPOT-2007-3 DEMATEN. Processing of Nanostructured Ceramics and Nanocomposites. Abstracts. Brno, 3.-5.3.2011. Ed. K. Maca, M. Trunec. Novi Sad : Faculty of Technology, University of Novi Sad 2011, s.53
 32. **HORNÁK, P.** (80%) - **FERDINANDY, M.** (10%) - **LOFAJ, F.** (10%) : Influence of deposition conditions of PECVD WC-C coatings on friction coefficient. In: RP DEMATEN. Final workshop of FP7 REGPOT-2007-3 DEMATEN. Processing of Nanostructured Ceramics and Nanocomposites. Abstracts. Brno, 3.-5.3.2011. Ed. K. Maca, M. Trunec. Novi Sad : Faculty of Technology, University of Novi Sad 2011, s.40
 33. **CSEHOVÁ, E.** (80%) - **DUSZA, J.** (10%) - **LIMPICHAIPANIT, A.** (5%) - **TODD, R.** (5%) : Nano/micro indentation of Al₂O₃-SiC nanocomposites. In: RP DEMATEN. Final workshop of FP7 REGPOT-2007-3 DEMATEN. Processing of Nanostructured Ceramics and Nanocomposites. Abstracts. Brno, 3.-5.3.2011. Ed. K. Maca, M. Trunec. Novi Sad : Faculty of Technology, University of Novi Sad 2011, s.52
 34. **DUSZOVÁ, A.** (75%) - **HORNÁK, P.** (5%) - **STOYKA, V.** (5%) - **HVIZDOŠ, P.** (5%) - **LOFAJ, F.** (5%) - **DUSZA, J.** (5%) : Nano/micro/macro hardness and palquist toughness of WC-Co systems. In: RP DEMATEN. Final workshop of FP7 REGPOT-2007-3 DEMATEN. Processing of Nanostructured Ceramics and Nanocomposites. Abstracts. Brno, 3.-5.3.2011. Ed. K. Maca, M. Trunec. Novi Sad : Faculty of Technology, University of Novi Sad 2011, s.54
 35. **FERDINANDY, M.** (80%) - **LOFAJ, F.** (10%) - **DUSZA, J.** (10%) : PE CVD deposition and microstructure of nanocrystalline WC-C coatings. In: RP DEMATEN. Final workshop of FP7 REGPOT-2007-3 DEMATEN. Processing of Nanostructured Ceramics and Nanocomposites. Abstracts. Brno, 3.-5.3.2011. Ed. K. Maca, M. Trunec. Novi Sad : Faculty of Technology, University of Novi Sad 2011, s.40
 36. **LOFAJ, F.** (80%) - **FERDINANDY, M.** (10%) - **HORNÁK, P.** (10%) : PECVD WC-C coating technology optimization. In: RP DEMATEN. Final workshop of FP7 REGPOT-2007-3 DEMATEN. Processing of

- Nanostructured Ceramics and Nanocomposites. Abstracts. Brno, 3.-5.3.2011. Ed. K. Maca, M. Trunec. Novi Sad : Faculty of Technology, University of Novi Sad 2011, s.20
37. SIMENDIČ, V. (50%) - RISTIC, I. (25%) - **HVIZDOŠ, P.** (20%) - VUKIČ, N. (5%) : Surface characterization of nanocomposites based on renewable resources. In: RP DEMATEN. Final workshop of FP7 REGPOT-2007-3 DEMATEN. Processing of Nanostructured Ceramics and Nanocomposites. Abstracts. Brno, 3.-5.3.2011. Ed. K. Maca, M. Trunec. Novi Sad : Faculty of Technology, University of Novi Sad 2011, s.41
 38. DRDLÍK, D. - HADRABA, H. - CHLUP, Z. - **PUCHÝ, V.**: The study of alumina/CNF ceramic composites produced by electrophoretic deposition. In: RP DEMATEN. Final workshop of FP7 REGPOT-2007-3 DEMATEN. Processing of Nanostructured Ceramics and Nanocomposites. Abstracts. Brno, 3.-5.3.2011. Ed. K. Maca, M. Trunec. Novi Sad : Faculty of Technology, University of Novi Sad 2011, s.22
 39. **TATARKO, P.** (80%) - **KAŠIAROVÁ, M.** (10%) - **DUSZA, J.** (5%) - ŠAJGALÍK, P. (5%) : Wear resistance of rare-earth doped Si_3N_4 -based ceramics. In: RP DEMATEN. Final workshop of FP7 REGPOT-2007-3 DEMATEN. Processing of Nanostructured Ceramics and Nanocomposites. Abstracts. Brno, 3.-5.3.2011. Ed. K. Maca, M. Trunec. Novi Sad : Faculty of Technology, University of Novi Sad 2011, s.51
 40. HALGAŠ, R. (60%) - **DUSZA, J.** (10%) - KOVÁČSOVÁ, L. (10%) - KAIFEROVÁ, J. (10%) - MARKOVSKÁ, N. (10%) : Cross-section hardness mapping of human teeth. In: SM 2011. 9th students' meeting and 2nd ESR COST MP0904 workshop. Book of abstracts. Novi Sad, 16.-18.11.2011. Ed. V.V. Srdič. Novi Sad : Faculty of Technology, University of Novi Sad 2011, s.94
 41. **HORNÁK, P.** (80%) - **FERDINANDY, M.** (10%) - **LOFAJ, F.** (10%) : The effect of deposition conditions of different magnetron sputtering mode on nanohardness of WC/C coatings. In: SM 2011. 9th students' meeting and 2nd ESR COST MP0904 workshop. Book of abstracts. Novi Sad, 16.-18.11.2011. Ed. V.V. Srdič. Novi Sad : Faculty of Technology, University of Novi Sad 2011, s.36
 42. HEGEDŰS, L. (20%) - KOLLÁR, P. (20%) - FÜZER, J. (20%) - **BUREŠ, R.** (20%) - **FÁBEROVÁ, M.** (20%) : AC magnetic properties of composite materials based on the mixture of two different ferromagnets. In: SMM 20. 20th international conference on Soft Magnetic Materials. Abstracts. Kos Island, 18.-22.9.2011. Ed. E. Hristoforou, D. Vlachos. Piraeus : X. Mpenou 2011, s.279
 43. **KOVÁČ, F.** (40%) - **PETRYSHYNETS, I.** (20%) - **STOYKA, V.** (10%) - MARCIN, J. (10%) - ŠKORVÁNEK, I. (10%) - **GAVENDOVÁ, P.** (10%) : An improved processing technique for preparation of non-oriented electrical steels with low coercivity. In: SMM 20. 20th international conference on Soft Magnetic Materials. Abstracts. Kos Island, 18.-22.9.2011. Ed. E. Hristoforou, D. Vlachos. Piraeus : X. Mpenou 2011, s.374
 44. FÜZEROVÁ, J. (17%) - FÜZER, J. (17%) - HEGEDŰS, L. (17%) - KOLLÁR, P. (17%) - **BUREŠ, R.** (16%) - **FÁBEROVÁ, M.** (16%) : Analysis of the initial complex permeability versus frequency of soft magnetic composites consisting of iron and $\text{Fe}_7\text{Cu}_1\text{Nb}_3\text{Si}_6\text{B}_7$. In: SMM 20. 20th international conference on Soft Magnetic Materials. Abstracts. Kos Island, 18.-22.9.2011. Ed. E. Hristoforou, D. Vlachos. Piraeus : X. Mpenou 2011, s.278
 45. KOLLÁR, P. (25%) - BIRČÁKOVÁ, Z. (20%) - FÜZER, J. (20%) - **BUREŠ, R.** (20%) - **FÁBEROVÁ, M.** (15%) : The analysis of the components contributing to the total losses of Fe-based composite material. In: SMM 20. 20th international conference on Soft Magnetic Materials. Abstracts. Kos Island, 18.-22.9.2011. Ed. E. Hristoforou, D. Vlachos. Piraeus : X. Mpenou 2011, s.281
 46. **KAŠIAROVÁ, M.** (80%) - **DUSZA, J.** (10%) - HNATKO, M. (5%) - ŠAJGALÍK, P. (5%) : Influence of SiC nanoparticles on the mechanical properties of Si_3N_4 -SiC composites. In: YUCOMAT 2011. 13th annual conference. The book of abstracts. Herceg Novi, Montenegro, 5.-9.9.2011. Ed. D.P. Uskokovič. Belgrade : Materials Research Society of Serbia 2011, s.87
 47. **DUSZOVÁ, A.** - **HORNÁK, P.** - **HVIZDOŠ, P.** - **LOFAJ, F.** - **DUSZA, J.**: Instrumented indentation of WC-Co cemented carbides. In: YUCOMAT 2011. 13th annual conference. The book of abstracts. Herceg Novi, Montenegro, 5.-9.9.2011. Ed. D.P. Uskokovič. Belgrade : Materials Research Society of Serbia 2011, s.122
 48. **TATARKO, P.** - **DUSZA, J.** - ŠAJGALÍK, P.: Mechanical properties of rare-earth doped Si_3N_4 and $\text{Si}_3\text{N}_4/\text{SiC}$ ceramics. In: YUCOMAT 2011. 13th annual conference. The book of abstracts. Herceg Novi, Montenegro, 5.-9.9.2011. Ed. D.P. Uskokovič. Belgrade : Materials Research Society of Serbia 2011, s.49
 49. **BESTERCI, M.** (60%) - VELGOSOVÁ, O. (10%) - IVAN, J. (10%) - **BALLÓKOVÁ, B.** (10%) - **SÜLLEIOVÁ, K.** (10%) : Model of "in-situ tensile test in SEM" of Al- Al_4C_3 nanomaterials. In: YUCOMAT 2011. 13th annual conference. The book of abstracts. Herceg Novi, Montenegro, 5.-9.9.2011. Ed. D.P. Uskokovič. Belgrade : Materials Research Society of Serbia 2011, s.37
 50. **HALGAŠ, R.** - **DUSZA, J.** - MARKOVSKÁ, N. - KAIFEROVÁ, J. - KOVÁČSOVÁ, L.: Nanoindentation hardness of enamel. In: YUCOMAT 2011. 13th annual conference. The book of abstracts. Herceg Novi, Montenegro, 5.-9.9.2011. Ed. D.P. Uskokovič. Belgrade : Materials Research Society of Serbia 2011, s.160

1. **BESTERCI, M.** (50%) - **VELGOSOVÁ, O.** (10%) - **IVAN, J.** (5%) - **HVIZDOŠ, P.** (35%) : Model of in-situ tensile test in SEM of Al-Al₄C₃ nanomaterials. Euro-nanoforum. Budapest
2. **DUSZA, J.** (100%) : Failure and damage mechanisms in ceramic nanocomposites. Fractography of Glasses and Ceramics VI. Jacksonville, 5.-8.6.2011
3. **VELGOSOVÁ, O.** (40%) - **BESTERCI, M.** (40%) - **KOVÁČ, L.** (15%) - **KULU, P.** (5%) - **HUANG, J.** (5%) : Effect of strain rate, volume fraction of particles and temperature on fracture mechanism in Al-Al₄C₃ system. Kovové materiály 30x
4. **MEDVECKÝ, I.** (100%) : Polyhydroxybutyrate-chitosan-nanohydroxyapatite composite systems. Materials Science and Engineering C xx