

### 3.2. Monographs

1. **CENIGA, L.:** Analytical Models of Thermal Stresses in Composite Materials II. Nova Science Publishers. New York 2007 ISBN 1-60021-809-1

### 3.6. Chapters in Monographs

1. **ĎURIŠIN, J. - OROLÍNOVÁ, M. - ĎURIŠINOVÁ, K.:** Powder Metallurgy of Aluminium. Aluminium Materials and Technologies from A to Z. Ed. Ed. Š. Michna a kol.. Děčín : Alcan 2007, s.520-543 ISBN 978-80-89244-18-8
2. **LOFAJ, F.:** Creep Mechanism and Microstructure Evolution in Silicon Nitride Ceramics. International Journal of Materials and Product Technology, 28, 2007, 3/4, s.487-513
3. **BESTERCI, M. - VELGOSOVÁ, O. - PEŠEK, L.:** Mechanical Properties of Individual Phases, Deformation and Fracture in Mechanically Alloyed Al-Al<sub>4</sub>C<sub>3</sub> Composite. International Journal of Materials and Product Technology, 28, 2007, 3/4, s.448-467

### 3.9.a/ Scientific Journals Indexed in Current Contents

1. **SIDOR, J. - KOVÁČ, F. - KVAČKAJ, T.:** Grain Growth Phenomena and Heat Transport in Non-Oriented Electrical Steels. Acta Materialia, 55, 2007, s.1711-1722 (IF 3,43)
2. **MEDVECKÝ, Ľ. - ŠTULAJTEROVÁ, R. - BRIANČIN, J.:** Study of Controlled Tetracycline Release from Porous Calcium Phosphates/Polyhydroxybutyrate Composite. Chemical Papers, 61, 2007, 6, s.477-484 (IF 0,36)
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5. **KVAČKAJ, T. - ZEMKO, M. - KUSKULIC, T. - KOČISKO, R. - BESTERCI, M. - DOBATKIN, S. - MOLNÁROVÁ, M.:** Nanostructure Formation and Numerical Simulation of IF Steel in ECAP. High Temperature Materials and Processes, 26, 2007, 2, s.147-150 (IF 0,262)
6. **DOBEŠ, F. - MILIČKA, K. - BESTERCI, M.:** Small Punch Testing of Al-4 vol. % Al<sub>4</sub>C<sub>3</sub> Composite in Creep Conditions. High Temperature Materials and Processes, 26, 2007, 3, s.193-199 (IF 0,262)
7. **BOCCACCINI, A.R. - THOMPSTONE, J. - DESIMONE, D. - RAWLINGS, R. - KAŠIAROVÁ, M. - SRIVASTAVA, V.:** Characterization of Ballistic Impact Damage in Wired Glass. International Journal of Applied Ceramic Technology, 4, 2007, s.350-358 (IF 1,663)
8. **KOVAĽ, V. - REECE, M.J. - BUSHBY, A.:** Enhanced Ferroelectric Loop Asymmetry of Lead Zirconate Titanate Thin Films under Nanoindentation. Journal of Applied Physics, 101, 2007, s.024113 (IF 2,316)
9. **SAKSL, K. - VOJTĚCH, D. - FRANZ, H.:** Quasicrystal-Crystal Structural Transformation in Al-5 wt.% Mn Alloy. Journal of Materials Science, 42, 2007, s.7198-7201 (IF 0,999)
10. **CENIGA, L.:** Stresses in Superconductor during Oxygenation. Journal of Materials Science, 42, 2007, s.6895-6900 (IF 0,999)
11. **CENIGA, L.:** Thermal Stresses and Related Phenomena in Composite Ceramics. Journal of Materials Science, 42, 2007, s.1202-1227 (IF 0,999)
12. **LUBE, T. - DUSZA, J.:** A Silicon Nitride Reference Material - a Testing Program of ESIS TC6. Journal of the European Ceramic Society, 27, 2007, s.1203-1209 (IF 1,576)
13. **KOVAĽ, V. - DUSZA, J. - BUSHBY, A. - REECE, M.J.:** Local Switching Behaviour and Electrical Polarization of Ferroelectric Thin Films under Nanoindentation. Journal of the European Ceramic Society, 27, 2007, s.4403-4406 (IF 1,576)
14. **MEDVECKÝ, Ľ. - KMECOVÁ, M. - SAKSL, K.:** Study of PbZr<sub>0,53</sub>Ti<sub>0,47</sub>O<sub>3</sub> Solid Solution Formation by Interaction of Perovskite Phases. Journal of the European Ceramic Society, 27, 2007, s.2031-2037
15. **CENIGA, L. - DIKO, P.:** Analytical Model of Oxygenation-Induced Stresses in YBCO Superconductor. Physica C, 467, 2007, s.179-185 (IF 0,792)
16. **JÓVÁRI, P. - SAKSL, K. - PRYDS, N. - LEBECH, B. - BAILEY, N. - MELLERGARD, A. - DELAPLANE, R. - FRANZ, H.:** Atomic Structure of Glassy Mg<sub>6</sub>O<sub>3</sub>Y<sub>1</sub>O Investigated with EXAFS, X-Ray and Neutron Diffraction, and Reverse Monte Carlo Simulations. Physical Review B, 76, 2007, s.054208 (IF 3,107)

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18. **LOFAJ, F.** - METTEN, L. - SANDE, A. - NILSSON, K. - ERIKSSON, A.: Ductile Cast Iron Inserts for Spent Nuclear Fuel Disposal: Digital Radiography. *Kovové materiály*, 45, 2007, s.27-34 (IF 1,138)
19. **LOFAJ, F.** - METTEN, L. - SANDE, A. - NILSSON, K. - ERIKSSON, A.: Ductile Cast Iron Inserts for Spent Nuclear Fuel Disposal: Radiography and Fractography. *Kovové materiály*, 45, 2007, s.17-26 (IF 1,138)
20. **ŠPAKOVÁ, J.** - **KOVALČÍKOVÁ, A.** - KOVALČÍK, J. - **DUSZA, J.** - LENKEY, G.: Dynamic Fracture Behaviour of Some Brittle Materials. *Kovové materiály*, 45, 2007, s.209-213 (IF 1,138)
21. **KOVALČÍKOVÁ, A.** - **ŠPAKOVÁ, J.** - **DUSZA, J.** - BALOG, M. - ŠAJGALÍK, P.: Microstructure and Mechanical Properties of Liquid-Phase-Sintered SiC+Si<sub>3</sub>N<sub>4</sub> Composites. *Kovové materiály*, 45, 2007, s.223-229 (IF 1,138)
22. KVAČKAJ, T. - ZEMKO, M. - KOCISKO, R. - KUSKULIC, T. - POKORNÝ, I. - **BESTERCI, M.** - **SÜLLEIOVÁ, K.** - MOLNÁROVÁ, M. - KOVÁČOVÁ, A.: Simulation of ECAP Process by Finite Element Method. *Kovové materiály*, 45, 2007, s.249-254 (IF 1,138)
23. BALOG, M. - **KOVALČÍKOVÁ, A.** - ZALITE, I. - LENCĚŠ, Z.: Sintering of Si<sub>3</sub>N<sub>4</sub> Nano-Powder Prepared by Plasma Synthesis. *Kovové materiály*, 45, 2007, s.195-198 (IF 1,138)
24. **ĎURIŠIN, J.** - **OROLÍNOVÁ, M.** - **ĎURIŠINOVÁ, K.** - **BESTERCI, M.**: Texture of Extruded Al-Al<sub>4</sub>C<sub>3</sub> Material. *Kovové materiály*, 45, 2007, s.269-274 (IF 1,138)

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1. JANOVEC, J. - SVOBODA, M. - DOLINŠEK, J. - GODEC, M. - BURŠÍK, J. - **DUSZA, J.**: Microstructure Characterisation of Al<sub>6</sub>Cr<sub>2</sub>8Fe<sub>7</sub> Quasicrystalline Approximant. *Kovové materiály*, 44, 2006, s.313-320 (IF 1,138)

### 3.9.b/ Scientific Journals Indexed in WOS

1. **DŽUPON, M.** - **PARILÁK, Ľ.** - **KOLLÁROVÁ, M.** - **SINAIOVÁ, I.**: Dual Phase Ferrite-Martensitic Steel Micro-Alloyed with V-Nb. *Metalurgija*, 46, 2007, 1, s.15-20 (IF 0,208)
2. **KOLLÁROVÁ, M.** - **DŽUPON, M.** - LEŠKO, A. - **PARILÁK, Ľ.**: Formation of Outburst Structure in Hot Dip Galvannealed Coatings on IF Steels. *Metalurgija*, 46, 2007, 1, s.9-14 (IF 0,208)
3. BIDULSKÁ, J. - KVAČKAJ, T. - **BIDULSKÝ, R.** - CABBIBO, M. - EVANGELISTA, E.: Effect of Low Strain Rate on Formability of Aluminium Alloy. *Metalurgija*, 46, 2007, 3, s.157-159 (IF 0,208)

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1. KVAČKAJ, T. - ZEMKO, M. - KOCISKO, R. - KUSKULIC, T. - POKORNÝ, I. - **BESTERCI, M.** - **SÜLLEIOVÁ, K.** - MOLNÁROVÁ, M. - KOVÁČOVÁ, A.: Matematické simulácie procesu ECAP pomocou MKP a vplyv IPD na vlastnosti ultrajemnozrných štruktúr vybraných materiálov. *Acta Metallurgica Slovaca*, 13, 2007, 3, s.311-319
2. DORČÁK, Ľ. - TERPÁK, J. - PETRÁŠ, I. - **DORČÁKOVÁ, F.**: Electronic Realization of the Fractional-Order Systems. *Acta Montanistica Slovaca*, 12, 2007, 3, s.231-237
3. **ČAJKOVÁ, L.** - **DUDROVÁ, E.** - **KABÁTOVÁ, M.**: Vplyv mikroštruktúry spekaných ocelí na iniciáciu a šírenie trhlín pri statickom namáhaní. *Materiálové inžinierstvo*, 14, 2007, 3, s.199-202
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6. STROBL, S. - GIERL, C. - KONEGGER, T. - **KUPKOVÁ, M.** - **KABÁTOVÁ, M.**: Formation of Structures with a Microgradient in Sintered Iron-Based Powders by Copper-Coating. *Powder Metallurgy Progress*, 6, 2006, 4, s.149-155
7. **BESTERCI, M.** - VELGOSOVÁ, O. - IVAN, J.: Investigation of External Factors Influence on Fracture Mechanism of Al-Al<sub>4</sub>C<sub>3</sub> System by "in-situ Tensile Test in SEM". *Powder Metallurgy Progress*, 6, 2006, 4, s.170-175
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11. ŠALAK, A. - **SELECKÁ, M.**: Factors Deteriorating the Machinability of Sintered Steels. Výrobné inžinierstvo, 6, 2007, 1, s.16-20
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14. HAGAROVÁ, M. - **JAKUBÉCZYOVÁ, D.** - VOJTKO, M.: PVD Coatings Applied on the Tool Steels. Journal of Metals, Materials and Minerals, 17, 2007, s.29-33
15. **FERDINANDY, M.** - **DUSZA, J.** - **LOFAJ, F.** - KAVEČANSKÝ, V.: Vplyv uhla dopadu častíc Ti pri EB-PVD procese na textúru povlakov TiN. Acta Mechanica Slovaca, 11, 2007, 4-C, s.60-65
16. **FÁBEROVÁ, M.** - **BUREŠ, R.** - **JAKUBÉCZYOVÁ, D.**: Analysis of the Influence of Heat Treatment on Distribution of Carbide Phases in PM Nb Steel. Acta Metallurgica Slovaca, 13, 2007, spec.iss., s.824-828
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18. STROBL, S. - **KUPKOVÁ, M.**: Copper-Coated Sintered Iron Powders with Microgradient Structures. Acta Metallurgica Slovaca, 13, 2007, spec.iss., s.833-836
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29. **MIKOLAJ, D.** - MAREK, P.: Plasticity Degradation Behaviour of the As Cast Low Carbon Steels in the Region of the Gamma -  $\alpha$  Transformation. Acta Metallurgica Slovaca, 13, 2007, spec.iss., s.405-408
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35. **BRUNCKOVÁ, H.** - **MEDVECKÝ, E.** - **MIHALIK, J.** - **ĎURIŠIN, J.**: Influence of Tartaric Acid in Nb-Complex on Phase Composition of PMN Precursors by Sol-Gel Synthesis. Acta Metallurgica Slovaca, 13, 2007, spec.iss.1, s.101-105

36. **KUPKOVÁ, M.** - KUPKA, M.: Modeling the Unusual Bending properties of Carbon Nanotubes by Means of Continuum Tubes Made of Material with Different Tensile and Compressive Moduli. *Acta Metallurgica Slovaca*, 13, 2007, spec.iss.1, s.205-209
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38. **ĎURIŠIN, J.** - **OROLÍNOVÁ, M.** - **ĎURIŠINOVÁ, K.** - **BESTERCI, M.** - **ŠEVC, P.**: Vplyv množstva sekundárnej fázy na prednostnú orientáciu štruktúry v systéme Al-Al<sub>4</sub>C<sub>3</sub>. *Transactions of the Technical University of Košice*, 2007, mimor.č., s.341-350
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1. **DUSZA, J.** - **KAŠIAROVÁ, M.** - **KOVALČÍKOVÁ, A.** - **ŠPAKOVÁ, J.** - **HNATKO, M.** - **ŠAJGALÍK, P.**: Carbon Derived Si<sub>3</sub>N<sub>4</sub>+SiC Micro/Nano Composite. *Ceramic Transactions*, 190, 2006, s.29-36
2. **HENŽEL, M.** - **KOVALČÍK, J.** - **DUSZA, J.** - **JUHÁSZ, A.** - **LENDVAI, J.**: Instrumented Indentation of MoSi<sub>2</sub> Based Materials. *Visnyk Lvivskoho Universityetu, ser. Physic*, 2006, N 39, s.253-260
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### 3.11. a/ Reviewed Proceedings

1. **SELECKÁ, M.** - **ŠALAK, A.** - **PIECZONKA, T.** - **STOYTSCHEV, M.**: Solid Phase-Gas Phase Sintering and Alloying of Powder Fe-Mn Steels Observed by Dilatometry. *Euro PM 2007. International Powder Metallurgy Congress and Exhibition. Vol. 1. Toulouse, 15.-17.10.2007. EPMA 2007*, s.47-52
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10. **TRPČEVSKÁ, J.** - **VELGOSOVÁ, O.** - **BRIANČIN, J.** - **JAKUBÉCZYOVÁ, D.**: The Effect of Thermally Sprayed Powder Materials on Residual Stress State in Surface Layers. In: *Research Development Projects. Ed. Š. Nižník a kol.. Košice : HF TU 2007*, s.78-79

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