

List of CC Publications :

International Current Content

- DUSZA, J.** - PARILÁK, Ľ. - DIBLÍK, J. - ŠLESÁR, M.: Elastic and Plastic Behaviour of WC-Co Composites. *Ceramics International*, 9, 1983, 4, p.144-147
- DUSZA, J.** - PARILÁK, Ľ. - ŠLESÁR, M.: Fracture Characteristics of Ceramic and Cermet Cutting Tools. *Ceramics International*, 13, 1987, p.133-137
- ŠAJGALÍK, P. - **DUSZA, J.**: Reinforcement of Silicon Nitride Ceramics by Beta-Si₃N₄ Whiskers. *Journal of the European Ceramic Society*, 5, 1989, p.321-326
- ŠAJGALÍK, P. - **DUSZA, J.**: High-Temperature Strength and Fracture Toughness of Si₃N₄-Beta-Si₃N₄ Composites. *Journal of Materials Science Letters*, 10, 1991, p.776-778
- DUSZA, J.** - ŠAJGALÍK, P. - REECE, M.J.: Analysis of Si₃N₄ + Beta-Si₃N₄ Whiskers Ceramics. *Journal of Materials Science*, 26, 1991, p.6782-6788
- KRÁL, J. - **FERDINANDY, M.** - LIŠKA, D. - DIKO, P.: Formation of TiAl₃ Layer on Titanium Alloys. *Materials Science and Engineering A*, 140, 1991, p.479-485
- DUSZA, J.** - ŠAJGALÍK, P. - BASTL, Z. - KAVEČANSKÝ, V. - ĎURIŠIN, J.: Properties of Beta-Silicon Nitride Whiskers. *Journal of Materials Science Letters*, 11, 1992, p.208-211
- DUSZA, J.** - ŠAJGALÍK, P.: Mechanical Properties of Si₃N₄+Beta-Si₃N₄ Whisker Reinforced Ceramics. *Journal of the European Ceramic Society*, 9, 1992, p.9-17
- DUSZA, J.**: Comparison of Fracture Toughness Testing Methods Applied to Si₃N₄+Si₃N₄-Whisker System. *Scripta Metallurgica et Materialia*, 26, 1992, p.337-342
- RUDNAYOVÁ, E. - **DUSZA, J.** - KUPKOVÁ, M.: Comparison of Fracture Toughness Measuring Methods Applied on Silicon Nitride Ceramics. *Journal de Physique IV*, 3, 1993, p.1273-1276
- KRYLOV, A.V. - BARINOV, S.M. - IVANOV, D.A. - MINDLINA, N.A. - PARILÁK, Ľ. - **DUSZA, J.** - LOFAJ, F. - RUDNAYOVÁ, E.: Influence of SiC Whisker Size on Mechanical Properties of Reinforced Alumina. *Journal of Materials Science Letters*, 12, 1993, p.904-906
- DUSZA, J.** - BARINOV, S.M.: Rising Crack-Growth-Resistance Behaviour of Al₂O₃ and Al₂O₃ + SiC Whisker Ceramics. *Scripta Metallurgica et Materialia*, 28, 1993, p.417-422
- KAGANOVSKIY, Yu.S. - **LOFAJ, F.** - MATSOKIN, V.P.: Visualization of the Stress Distribution around the Contact of a Disperse Particle Sintered to the Surface. *Scripta Metallurgica et Materialia*, 28, 1993, p.1089-1093
- DUSZA, J.** - ŠAJGALÍK, P.: Static Fatigue Resistance of Si₃N₄ + Si₃N₄ Whisker Ceramics at 1200 C. *Journal of Materials Science Letters*, 13, 1994, p.131-134
- LOFAJ, F.** - KAGANOVSKIY, Yu.S.: Kinetics of WC-Co Oxidation Accompanied by Swelling. *Journal of Materials Science*, 30, 1995, p.1811-1817
- ŠAJGALÍK, P. - **DUSZA, J.** - HOFFMANN, M.J.: Relationship between Microstructure Toughening Mechanisms and Fracture Toughness of Reinforced Beta-Si₃N₄ Ceramics. *Journal of the American Ceramic Society*, 78, 1995, 10, p.2619-2624
- GRITZNER, G. - PUCHNER, C. - **DUSZA, J.**: Nb₂O₅ and Ta₂O₅ Codoped Zirconia. *Journal of the European Ceramic Society*, 15, 1995, p.45-49
- HVIZDOŠ, P.** - **DUSZA, J.**: Deformation and Fracture Behaviour of Two Si₃N₄ Ceramics with Different Sintering Additives. *Scripta Metallurgica et Materialia*, 32, 1995, 9, p.1459-1464
- ŠAJGALÍK, P. - **DUSZA, J.** - HOFFER, F. - WARBICHLER, P. - REECE, M.J. - BODEN, G. - KOZÁNKOVÁ, J.: Structural Development and Properties of SiC-Si₃N₄ Nano-Microcomposites. *Journal of Materials Science Letters*, 15, 1996, p.72-76

ŠAJGALÍK, P. - LENČEŠ, Z. - **DUSZA, J.**: Layered Si₃N₄ Composites with Enhanced Room Temperature Properties. *Journal of Materials Science*, 31, 1996, p.4837-4842

KOVAĽ, V. - BRIANČIN, J.: Effect of Polling Process on the Piezoelectric and Dielectric Properties of Nb and Sr-Doped PZT Ceramics. *Ferroelectrics*, 193, 1997, p.41-49

DUSZA, J. - ESCHNER, T. - RUNDGREN, K.: Hardness Anisotropy in Bimodal Grained Gas Pressure Sintered Si₃N₄. *Journal of Materials Science Letters*, 16, 1997, p.1664-1667

LOFAJ, F. - OKADA, A. - KAWAMOTO, H.: Cavitation Strain Contribution to Tensile Creep in Vitreous Bonded Ceramics. *Journal of the American Ceramic Society*, 80, 1997, 6, p.1619-1623

DUSZA, J. - **HVIZDOŠ, P.** - STEINKELLNER, W. - KROMP, K.: Bending Creep Behaviour of Pressureless Sintered MoSi₂. *Scripta Materialia*, 37, 1997, 4, p.471-476

KOVAĽ, V. - BRIANČIN, J. - ALEMANY, C.: Dielectric Properties and Currie-Weiss Behaviour of Pb/Zn_{1/3}Nb_{2/3}03-PbTiO₃-PbZrO₃ Ceramics. *Ceramics - Silikáty*, 42, 1998, 2, p.41-48

DUSZA, J. - STEEN, M.: Microhardness Load Size Effect in Individual Grains of a Gas Pressure Sintered Silicon Nitride. *Journal of the American Ceramic Society*, 81, 1998, 11, p.3022-3024

CARRUTH, M. - BAXTER, D. - **DUSZA, J.**: Strength Degradation of Si₃N₄ Exposed to Simulated Gas Turbine Environments. *Journal of Materials Science*, 34, 1999, p.4501-4509

LOFAJ, F. - OKADA, A. - USAMI, H. - KAWAMOTO, H.: Creep Damage in an Advanced Self-Reinforced Silicon Nitride: Part I, Cavitation in the Amorphous Boundary Phase. *Journal of the American Ceramic Society*, 82, 1999, 12, p.1009-1019

DUSZA, J. - ŠAJGALÍK, P. - STEEN, M.: Fracture Toughness of a Silicon Nitride/Silicon Carbide Nanocomposite at 1350 °C. *Journal of the American Ceramic Society*, 82, 1999, 12, p.3613-3615

DUSZA, J. - STEINKELLNER, W. - KROMP, K. - STEEN, M.: Effect of High Temperature Heat-Treatments on the Strength of Molybdenum Disilicide. *Materials Science and Engineering A*, 259, 1999, p.149-153

LOFAJ, F. - RUNDGREN, K. - OKADA, A. - KAWAMOTO, H.: Effective Young's Modulus and Microhardness Anisotropy in Beta-Si₃N₄ Grains. *Praktische Metallographie*, 30, 1999, p.515-522

BALLÓKOVÁ, B. - **LOFAJ, F.** - **DUSZA, J.** - KROMP, K. - STEINKELLNER, W.: The Effect of Preoxidation on the Strength of Monolithic MoSi₂ and MoSi₂+SiC Composite Ceramics. *Praktische Metallographie*, 30, 1999, p.523-527

CENIGA, L. - NOVÁK, L. - ZENTKO, A.: The Magnetic Properties and the Barkhausen Noise of the Annealed Fe-V-B Amorphous Alloy. *Acta Physica Polonica A*, 97, 2000, 3, p.575-578

KOVAĽ, V. - ALEMANY, C.: Low-Temperature Spontaneous Polarization. *Ferroelectrics*, 237, 2000, p.135-143

ŠAJGALÍK, P. - HNATKO, M. - **LOFAJ, F.** - **HVIZDOŠ, P.** - **DUSZA, J.** - WARBICHLER, P. - HOFFER, F. - RIEDEL, R. - LECOMTE, E. - HOFFMANN, M.J.: SiC/Si₃N₄ Nano/Micro-Composite-Processing, RT and HT Mechanical Properties. *Journal of the European Ceramic Society*, 20, 2000, p.453-462

LOFAJ, F.: Tensile Creep Behaviour in an Advanced Silicon Nitride. *Materials Science and Engineering A*, 279, 2000, p.61-72

DUSZA, J. - ŠAJGALÍK, P. - STEEN, M. - SEMERAD, E.: Dynamic Fatigue of a Si₃N₄ + SiC Nanocomposite at 1350 °C. *Materials Science and Engineering A*, 291, 2000, p.250-255

ALGUERO, M. - BUSHBY, A. - **HVIZDOŠ, P.** - REECE, M.J. - WHATMORE, R. - ZHANG, Q.: Mechanical and Electromechanical Properties of PZT Sol-Gel Thin Films Measured by Nanoindentation. *Integrated Ferroelectrics*, 41, 2001, p.53-62

BARINOV, S.M. - IVANOV, N.V. - KUREPIN, A.V. - BALLÓKOVÁ, B. - **HVIZDOŠ, P.** - RUDNAYOVÁ, E.: Effect of Aqueous Solutions on Time-Dependent Failure of a Glass-Bonded Alumina. *Journal of Materials Science Letters*, 20, 2001, p.745-749

CAO, J.W. - **LOFAJ, F.** - OKADA, A.: Application of an Ultrasonic Technique to Creep Cavitation in Silicon Nitride. *Journal of Materials Science*, 36, 2001, p.1301-1306

CENIGA, L. - KOVÁČ, F.: Influence of Annealing and Hydrogenation-Dehydrogenation Processes on Internal Stresses and Barkhausen Noise of Fe₈B₁₇ Amorphous Alloy. *Journal of Materials Science*, 36, 2001, p.4125-4129

DUSZA, J. - ŠAJGALÍK, P. - STEEN, M. - SEMERAD, E.: Low-Cycle Fatigue Strength under Step Loading of a Si₃N₄+SiC Nanocomposite at 1350 C. *Journal of Materials Science*, 36, 2001, p.4469-4477

HVIZDOŠ, P. - REECE, M.J. - TORRECILLAS, R.: Fatigue Behaviour of Mullite Studied by Indentation Flexure Method. *Journal of the European Ceramic Society*, 21, 2001, p.53-61

HVIZDOŠ, P. - BESTERCI, M. - BALLÓKOVÁ, B. - SCHOLL, R. - BÖHM, A.: Creep Behaviour of MoSi₂-SiC and MoSi₂-HfO₂. *Materials Letters*, vol. 51, 2001, p.485-489

CENIGA, L.: Internal Stresses and Barkhausen Noise of Fe₈B₂₀ Amorphous Alloy Treated by Annealing and Hydrogenation-Dehydrogenation Processes. *Materials Science and Engineering B*, 79, 2001, p.154-158

CENIGA, L. - KOVÁČ, F.: Cracking of Isotropic Particle-Matrix System: Globular Shape Particle. *Materials Science and Engineering B*, 86, 2001, p.178-181

CENIGA, L. - KOVÁČ, F.: Influence of Annealing Process on Magnetic Properties and Barkhausen Noise of the Fe-W-B Amorphous Alloy. *Czechoslovak Journal of Physics A*, 52, 2002, Suppl., p.73-76

NOVÁK, L. - **CENIGA, L.** - KOVÁČ, F.: Influence of Hydrogenation-Dehydrogenation Process on Magnetic Properties and Barkhausen Noise of the Fe-W-B Amorphous Alloy. *Czechoslovak Journal of Physics A*, 52, 2002, Suppl., p.77-80

CENIGA, L. - DIKO, P.: Internal Stresses in Superconductors. *Czechoslovak Journal of Physics A*, 52, 2002, Suppl., p.229-232

ALGUERO, M. - **HVIZDOŠ, P.** - BUSHBY, A. - REECE, M.J.: Stress Induced Depolarisation of Ferroelectrics in Thin Film Form. *Ferroelectrics*, 267, 2002, p.367-372

HVIZDOŠ, P. - REECE, M.J. - BUSHBY, A.: Depolarisation of PZT Thin Films by Nanoindentation. *Integrated Ferroelectrics*, 50, 2002, p.199-207

LOFAJ, F. - WIEDERHORN, S.M. - LONG, G.G. - HOCKEY, B. - JEMIAN, P.R. - BROWDER, L. - ANDREASON, J. - TÄFFNER, U.: Non-Cavitation Tensile Creep in Lu-Doped Silicon Nitride. *Journal of the European Ceramic Society*, 22, 2002, p.2479-2487

KOVAL, V. - BRIANČIN, J.: Microstructure and Electrical Response of 0.9Pb(Mg_{1/3}Nb_{2/3})O₃-0.1PbTiO₃ Relaxor Ceramics. *Ceramics - Silikáty*, 47, 2003, 1, s.8-12

KOVAL, V. - ALEMANY, C. - BRIANČIN, J. - BRUNCKOVÁ, H.: Dielectric Properties and Phase Transition Behaviour of xPMN-(1-x)PZT Ceramic Systems. *Journal of Electroceramics*, 10, 2003, 1, p.19-29

LOFAJ, F. - LUPRANO, V.: Cavitation Asymmetry in Silicon Nitride by Scanning Laser Acoustic Microscopy. *Journal of Materials Science*, 38, 2003, p.2393-2399

LOFAJ, F. - SMITH, D. - BLESSING, G. - LUECKE, W. - WIEDERHORN, S.M.: Instrumented Indentation and Ultrasonic Velocity Technique for the Evaluation of Creep Cavitation in Silicon Nitride. *Journal of Materials Science*, 38, 2003, p.1403-1412

CENIGA, L.: Thermal Stresses in Surface-Coated Fe-3%Si Sheet. *Journal of Materials Science*, 38, 2003, p.3709-3712

LOFAJ, F. - BLESSING, G. - WIEDERHORN, S.M.: Ultrasonic Velocity Technique for Nondestructive Quantification of Elastic Moduli Degradation during Creep in Silicon Nitride. *Journal of the American Ceramic Society*, 86, 2003, p.817-822

KOVAL, V. - ALEMANY, C. - BRIANČIN, J. - BRUNCKOVÁ, H. - SAKSL, K.: Effect of PMN Modification on Structure and Electrical Response of xPMN-(1-x)PZT Ceramic Systems. *Journal of the European Ceramic Society*, 23, 2003, p.1157-1166

LOFAJ, F. - **HVIZDOŠ, P.** - **DORČÁKOVÁ, F.** - SATET, R. - HOFFMANN, M.J. - DE ARELLANO-LÓPEZ, A.: Indentation Moduli and Microhardness of RE-Si-Mg-O-N Glasses (RE=Sc, Y, La, Sm, Yb and Lu) with Different Nitrogen Content. *Materials Science and Engineering A*, 357, 2003, p.181-187

KAŠIAROVÁ, M. - RUDNAYOVÁ, E. - KOVALČÍK, J. - **DUSZA, J.** - HNATKO, M. - ŠAJGALÍK, P. - MERSTALLINGER, A.: Wear and Creep Characteristics of a Carbon-Derived Si₃N₄/SiC Micro/Nanocomposite. *Materialwissenschaft und Werkstofftechnik*, 34, 2003, p.338-342

CENIGA, L. - DIKO, P.: Matrix Crack Formation in Y-Ba-Cu-O Superconductor. *Physica C*, 385, 2003, p.329-336

HVIZDOŠ, P. - **DUSZA, J.** - STEINKELLNER, W. - KROMP, K.: Creep Behaviour of MoSi₂ and MoSi₂ + SiC Composite. *Journal of Materials Science*, 39, 2004, p.4073-4077

BESTERCI, M. - IVAN, J. - VELGOSOVÁ, O. - **HVIZDOŠ, P.**: Influence of Al₄C₃ Particle Volume Fraction on Fracture Mechanism in Al-Al₄C₃ Composite. *Journal of Materials Science*, 39, 2004, p.1071-1074

HENŽEL, M. - KOVALČÍK, J. - **DUSZA, J.** - JUHÁSZ, A. - LENDVAI, J.: Micro and Nano-Indentation of MoSi₂. *Journal of Materials Science*, 39, 2004, p.3769-3772

LOFAJ, F. - DÉRIANO, S. - LEFLOCH, M. - ROUXEL, T. - HOFFMANN, M.J.: Structure and Rheological Properties of the RE-Si-Mg-O-A (RE=Sc, Y, La, Nd, Sm, Gd, Yb and Lu) Glasses. *Journal of Non-Crystalline Solids*, 344, 2004, p.8-16

BRETON, J. - ZORKOVSKÁ, A. - **KAŠIAROVÁ, M.**: Crystallization of Fe_{73.5}Cu₁RE₃Si_{13.5}B₉ Ribbons with RE=Pr, Nd, Gd. *Journal of Physics: Condensed Matter*, 16, 2004, p.5555-5568

DUSZA, J. - KOVALČÍK, J. - **HVIZDOŠ, P.** - ŠAJGALÍK, P. - HNATKO, M. - REECE, M.J.: Creep Behavior of a Carbon-Derived Si₃N₄/SiC Nanocomposite. *Journal of the European Ceramic Society*, 24, 2004, p.3307-3315

HVIZDOŠ, P. - **KAŠIAROVÁ, M.** - **DUSZA, J.** - HNATKO, M. - ŠAJGALÍK, P.: Mechanical Properties of Si₃N₄/SiC Nanocomposites Studied by Instrumented Indentation with Spheres. *Journal of the European Ceramic Society*, 24, 2004, p.3345-3350

KAŠIAROVÁ, M. - RUDNAYOVÁ, E. - **DUSZA, J.** - HNATKO, M. - ŠAJGALÍK, P. - MERSTALLINGER, A. - KUZSELLA, L.: Some Tribological Properties of a Carbon-Derived Si₃N₄/SiC Nanocomposite. *Journal of the European Ceramic Society*, 24, 2004, p.3431-3435

LOFAJ, F. - SATET, R. - HOFFMANN, M.J. - DE ARELLANO-LÓPEZ, A.: Thermal Expansion and Glass Transition Temperature of the Rare-Earth Doped Oxynitride Glasses. *Journal of the European Ceramic Society*, 24, 2004, p.3377-3385

CENIGA, L.: Thermal Stresses in Isotropic Cell-Divided Particle-Matrix System: Spherical and Cubic Cells. *Journal of Thermal Stresses*, 27, 2004, p.425-432

CENIGA, L.: Thermal Stresses in Triaxial Anisotropic Particle-Matrix System. *Journal of Thermal Stresses*, 27, 2004, p.471-489

BESTERCI, M. - IVAN, J. - PEŠEK, L. - VELGOSOVÁ, O. - **HVIZDOŠ, P.**: Damage Mechanism of Al-12Al₄C₃. *Materials Letters*, 58, 2004, p.867-870

KOVALČÍK, J. - **DUSZA, J.** - LUBE, T. - DANZER, R.: Delayed Failure Behaviour of the ESIS Silicon Nitride Reference Material at 1200 C in Air. *Materials Letters*, 58, 2004, p.871-875

LOFAJ, F. - ROUXEL, T. - HOFFMANN, M.J.: Thermal, Elastic and Dielectric Properties of Rare-Earth Containing Oxynitride Glasses. *Silicates Industriels*, 69, 2004, 5/6, p.95-104

KOVAL, V. - REECE, M.J. - BUSHBY, A.: Relaxation Processes in Dielectric and Electromechanical Response of PZT Thin Films under Nanoindentation. *Ferroelectrics*, 318, 2005, p.55-61

HVIZDOŠ, P. - BESTERCI, M. - ŠLESÁR, M. - EDTMAIER, Ch.: Compressive Creep Testing of Pt-Y₂O₃ Composites. *High Temperature Materials and Processes*, 24, 2005, 3, p.189-192

KOVAL, V. - REECE, M.J. - BUSHBY, A.: Ferroelectric/Ferroelastic Behaviour and Piezoelectric Response of Lead Zirconate Titanate Thin Films under Nanoindentation. *Journal of Applied Physics*, 97, 2005, p.074301-1-7

LOFAJ, F. - **DORČÁKOVÁ, F.** - HOFFMANN, M.J.: The Effect of Nitrogen on Viscosity of La-Si-Mg-O-A Glasses by Compressive Creep and Dilatometry. *Journal of Materials Science*, 40, 2005, p.47-51

BESTERCI, M. - BALLÓKOVÁ, B. - **HVIZDOŠ, P.** - SCHOLL, R. - BÖHM, A.: Creep Behaviour of MoSi₂-HfO₂ Composites. *Journal of Materials Science*, 40, 2005, s.3869-3871

DUSZA, J. - KOVALČÍK, J. - **HVIZDOŠ, P.** - ŠAJGALÍK, P. - HNATKO, M. - REECE, M.J.: Enhanced Creep Resistant Silicon-Nitride-Based Nanocomposite. *Journal of the American Ceramic Society*, 88, 2005, 6, p.1500-1503

BESTERCI, M. - PEŠEK, L. - ZUBKO, P. - **HVIZDOŠ, P.**: Mechanical Properties of Phases in Al-Al₄C₃ Mechanically Alloyed Material Measured by Depth Sensing Indentation Technique. *Materials Letters*, 59, 2005, p.1971-1975

DIKO, P. - KRAČUNOVSKÁ, S. - **CENIGA, L.** - BIERLICH, J. - ZEISBERGER, M. - GAWALEK, W.: Microstructure of Top Seeded Melt-Grown YBCO Bulks with Holes. *Superconductor Science and Technology*, 18, 2005, p.1400-1404

KUPKOVÁ, M. - KUPKA, M. - RUDNAYOVÁ, E. - **DUSZA, J.**: On the Use of Fractal Geometry Methods for the Wear Process Characterization. *Wear*, 258, 2005, s.1462-1465

ŠAJGALÍK, P. - LENČEŠ, Z. - **DUSZA, J.**: Layered Composites with Self-Diagnostic Ability. *Composites B*, 37, 2006, p.515-523

BALLÓKOVÁ, B. - **HVIZDOŠ, P.** - BESTERCI, M. - ZUMDICK, M. - BÖHM, A.: Creep testing of MoSi₂ - Bases Composites. *High Temperature Materials and Processes*, 25, 2006, 3, p.139-142

ŠAJGALÍK, P. - HNATKO, M. - LENČEŠ, Z. - **DUSZA, J.** - **KAŠIAROVÁ, M.**: In Situ Preparation of Si₃N₄/SiC Nanocomposites for Cutting Tools Application. *International Journal of Applied Ceramic Technology*, 3, 2006, 1, p.41-46

ŠAJGALÍK, P. - HNATKO, M. - LOJANOVÁ, Š. - LENČEŠ, Z. - PÁLKOVÁ, H. - **DUSZA, J.**: Microstructure, Hardness and Fracture Toughness Evolution of Hot-Pressed SiC/Si₃N₄ Nano/Micro Composite after High-Temperature Treatment. *International Journal of Materials Research*, 97, 2006, 6, p.772-777

KAŠIAROVÁ, M. - **DUSZA, J.** - HNATKO, M. - ŠAJGALÍK, P. - REECE, M.J.: Fractographic Montage for a Si₃N₄-SiC Nanocomposite. *Journal of the American Ceramic Society*, 89, 2006, p.1752-1755

LOFAJ, F.: Creep Mechanisms in Quasi-Plastic Silicon Nitride by Instrumented Indentation. *Journal of the European Ceramic Society*, 26, 2006, p.3933-3942

KAŠIAROVÁ, M. - **DUSZA, J.** - HNATKO, M. - ŠAJGALÍK, P.: Microstructure and Fracture-Mechanical Properties of Carbon Derived Si₃N₄+SiC Nanomaterials. *Materials Science and Engineering C*, 26, 2006, p.862-866

DUSZA, J. - **KAŠIAROVÁ, M.** - **KOVALČÍKOVÁ, A.** - **ŠPAKOVÁ, J.**: High Temperature Properties of a SiCN Derived Si₃N₄+SiC Micro/Nanocomposite. *High Temperature Materials and Processes*, 26, 2007, 1, p.7-15

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, p.350-358

KOVAL, V. - REECE, M.J. - BUSHBY, A.: Enhanced Ferroelectric Loop Asymmetry of Lead Zirconate Titanate Thin Films under Nanoindentation. *Journal of Applied Physics*, 101, 2007, p.024113

CENIGA, L.: Stresses in Superconductor during Oxygenation. *Journal of Materials Science*, 42, 2007, p.6895-6900

CENIGA, L.: Thermal Stresses and Related Phenomena in Composite Ceramics. *Journal of Materials Science*, 42, 2007, p.1202-1227

LUBE, T. - **DUSZA, J.:** A Silicon Nitride Reference Material - a Testing Program of ESIS TC6. *Journal of the European Ceramic Society*, 27, 2007, p.1203-1209

KOVAL, 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, p.4403-4406

CENIGA, L. - DIKO, P.: Analytical Model of Oxygenation-Induced Stresses in YBCO Superconductor. *Physica C*, 467, 2007, p.179-185

CENIGA, L.: A New Analytical Model for Thermal Stresses in Multi-Phase Materials and Lifetime Prediction Methods. *Acta Mechanica Sinica*, 24, 2008, p.189-206

JAN, V. - **DORČÁKOVÁ, F.** - **DUSZA, J.** - BARTSCH, M.: Indentation Creep of Free-Standing EB-PVD Thermal Barrier Coatings. *Journal of the European Ceramic Society*, 28, 2008, p.241-246

DUSZOVÁ, A. - **DUSZA, J.** - TOMÁŠEK, K. - BLUGAN, G.S. - KÜBLER, J.: Microstructure and Properties of Carbon Nanotube/Zirconia Composite. *Journal of the European Ceramic Society*, 28, 2008, p.1023-1027

DUSZOVÁ, A. - **DUSZA, J.** - TOMÁŠEK, K. - MORGIEL, J. - BLUGAN, G.S. - KÜBLER, J.: Zirconia/Carbon Nanofiber Composite. *Scripta Materialia*, 58, 2008, p.520-523

CENIGA, L.: Thermal-Stress Induced Phenomena in Two-Component Material: Part I. *Acta Mechanica Sinica*, 25, 2009, p.811-820

BALLÓKOVÁ, B. - BESTERCI, M. - **HVIZDOŠ, P.:** High temperature properties of the MoSi₂ and MoSi₂-SiC nanocomposites. *High Temperature Materials and Processes*, 28, 2009, p.271-276

HEGEDUSOVÁ, L. - **KAŠIAROVÁ, M.** - **DUSZA, J.** - HNATKO, M. - ŠAJGALÍK, P.: Mechanical Properties of Carbon-Derived Si₃N₄+SiC Micro/Nano-Composite. *International Journal of Refractory Metals and Hard Materials*, 27, 2009, p.438-442

LOFAJ, F. - WIEDERHORN, S.M.: Creep Processes in Silicon Nitride Ceramics. *Journal of Ceramic Processing Research*, 10, 2009, p.269-277

KAŠIAROVÁ, M. - SHOLLOCK, B. - BOCCACCINI, A.R. - **DUSZA, J.:** Microstructure and creep behaviour of a Si₃N₄-SiC micronanocomposite. *Journal of the American Ceramic Society*, 92, 2009, p.439-444

DUSZA, J. - BLUGAN, G.S. - MORGIEL, J. - KÜBLER, J. - INAM, F. - PEIJS, T. - REECE, M.J. - **PUCHÝ, V.:** Hot pressed and spark plasma sintered zirconia/carbon nanofiber composites. *Journal of the European Ceramic Society*, 29, 2009, p.3177-3184

KOVALČÍKOVÁ, A. - **DUSZA, J.** - ŠAJGALÍK, P.: Thermal shock resistance and fracture toughness of Liquid-Phase-Sintered SiC-Based Ceramics. *Journal of the European Ceramic Society*, 29, 2009, p.2387-2394

DUSZA, J. - MORGIEL, J. - **TATARKO, P.** - **PUCHÝ, V.:** Characterization of interfaces in ZrO₂ - carbon nanofiber composite. *Scripta Materialia*, 61, 2009, p.253-256

- KRÁL, J. - FERDINANDY, M. - KOTTFER, D. - MAŇKOVÁ, I. - CENIGA, L.:** Tribological and refractory properties of TiAl₃ intermetallic alloy. Surface Review and Letters, 16, 2009, no. 4, p.623-629
- CENIGA, L.:** Thermal stresses in two- and three-component anisotropic materials. Acta Mechanica Sinica, 26, 2010, p.695-709
- CENIGA, L.:** Thermal-Stress Induced Phenomena in Two-Component Material. Part II. Acta Mechanica Sinica, 26, 2010, p.101-106
- LOFAJ, F. - NĚMEČEK, J. - BLÁHOVÁ, O.:** A comparative study of nanoindentation measurements on thin coatings. Chemické listy, 104, 2010, p.s271-s274
- CENIGA, L.:** Analytical model of thermal stresses in two- and three-component materials II. International Journal of Engineering Sciences, 48, 2010, p.1824-1841
- CENIGA, L.:** Analytical model of thermal stresses in two- and three-component materials. International Journal of Engineering Sciences, 48, 2010, p.290-311
- HEGEDUSOVÁ, L. - KAŠIAROVÁ, M. - CSEHOVÁ, E. - DUSZA, J.:** Effect of the specimen size on strength of Si₃N₄+SiC composite. Journal of the European Ceramic Society, 30, 2010, p.1059-1065
- LOJANOVÁ, Š. - TATARKO, P. - CHLUP, Z. - HNATKO, M. - DUSZA, J. - LENČEŠ, Z. - ŠAJGALÍK, P.:** Rare-earth element doped Si₃N₄/SiC micro/nano-composites-RT and HT mechanical properties. Journal of the European Ceramic Society, 30, 2010, s.1931-1944
- HEGEDUSOVÁ, L. - KOVALČÍKOVÁ, A. - CENIGA, L. - DUSZA, J.:** Contact strength and crack formation in monolithic ceramic materials. Materials Science and Engineering A, 527, 2010, p.1179-1184
- TATARKO, P. - LOJANOVÁ, Š. - DUSZA, J. - ŠAJGALÍK, P.:** Influence of various rare-earth oxide additives on microstructure and mechanical properties of silicon nitride based nanocomposites. Materials Science and Engineering A, 527, 2010, p.4771-4778
- CENIGA, L.:** Thermal Stresses in Isotropic-Triaxial-Anisotropic Particle-Matrix System. Meccanica, 45, 2010, p.73-77
- HVIZDOŠ, P. - PUCHÝ, V. - DUSZOVÁ, A. - DUSZA, J.:** Tribological behavior of carbon nanofiber-zirconia composite. Scripta Materialia, 63, 2010, p.254-257
- HVIZDOŠ, P. - MESTRA, A. - ANGLADA, M.:** Effect of heat treatment on wear damage mechanisms in 3Y-TZP ceramics. Wear, 269, 2010, p.26-30
- TATARKO, P. - KAŠIAROVÁ, M. - DUSZA, J. - MORGIEL, J. - ŠAJGALÍK, P. - HVIZDOŠ, P.:** Wear resistance of hot-pressed Si₃N₄/SiC micro/nanocomposites sintered with rare-earth oxide additives. Wear, 269, 2010, p.867-874

ADDB- National Current Content

- MEDVECKÝ, Ľ. - MIHALIK, J. - DUSZA, J.:** Stanovenie nečistôt (Fe,Mn,Cr,Al) v SiC a Al₂O₃ + SiC keramikách metódou plameňovej AAS. Chemické listy, 86, 1992, s.375-377
- LOFAJ, F. - KAGANOVSKIJ, Yu.S. - JURČENKO, S.:** Difúzna evolúcia disperzných kryštalických častíc pri spekaní na povrchu kryštálu. Kovové materiály, 30, 1992, 6, s.563-574
- RUDNAYOVÁ, E. - HVIZDOŠ, P. - DUSZA, J. - ŠAJGALÍK, P. - LENČEŠ, Z.:** Mechanické vlastnosti vrstvených keramických kompozitov na báze nitridu kremíka. Kovové materiály, 33, 1995, 4, s.281-288
- HVIZDOŠ, P. - LOFAJ, F. - DUSZA, J.:** Mikroštruktúrne zmeny pri creepe v keramike na báze Si₃N₄. Kovové materiály, 33, 1995, 6, s.473-483

HVIZDOŠ, P. - RUDNAYOVÁ, E. - **DUSZA, J.** - BARINOV, S.M. - KRYLOV, A.V.: Lomovo-mechanické charakteristiky systému $\text{Al}_2\text{O}_3+\text{ZrO}_2+\text{SiC}$. Kovové materiály, 34, 1996, 3, s.133-142

LOFAJ, F. - **DUSZA, J.** - RICHARZ, B.: TEM and AES Study of Microstructure Changes during Creep of Alumina. Kovové materiály, 35, 1997, 4, s.247-256

HVIZDOŠ, P.: Fatigue Behaviour of Silicon Nitride Studied by Indentation Flexure Method. Kovové materiály, 38, 2000, 6, s.376-388

HVIZDOŠ, P. - BESTERCI, M. - BALLÓKOVÁ, B. - SCHOLL, R. - BÖHM, A.: Creepové charakteristiky kompozitných materiálov na báze MoSi_2 . Kovové materiály, 39, 2001, 6, s.379-387

LOFAJ, F.: Creep Cavitation in Silicon Nitride by Pulse-Echo Technique. Kovové materiály, 40, 2002, 3, s.184-194

LOFAJ, F. - **DORČÁKOVÁ, F.** - KOVALČÍK, J. - HOFFMANN, M.J. - RAMÍREZ DE ARELLANO, L.: The Effect of Lanthanides and Nitrogen on Microhardness of Oxynitride Glasses. Kovové materiály, 41, 2003, 3, s.145-157

KOVALČÍK, J. - **HVIZDOŠ, P.** - **DUSZA, J.** - ŠAJGALÍK, P. - HNATKO, M. - REECE, M.J.: Short-Term High Temperature Deformation and Recovery in Si_3N_4 Based Materials. Kovové materiály, 41, 2003, 6, s.377-388

HVIZDOŠ, P. - **KAŠIAROVÁ, M.** - **DUSZA, J.** - HNATKO, M. - ŠAJGALÍK, P.: Mechanické vlastnosti nanokompozitov $\text{Si}_3\text{N}_4/\text{SiC}$ merané inštrumentovanou indentáciou sférickým indentorom. Kovové materiály, 42, 2004, 1, s.51-62

DUSZA, J. - **HVIZDOŠ, P.:** Fracture and Mechanical Properties of MoSi_2 and MoSi_2+SiC . Kovové materiály, 44, 2006, s.251-258

JANOVEC, J. - SVOBODA, M. - DOLINŠEK, J. - GODEC, M. - BURŠÍK, J. - **DUSZA, J.:** Microstructure Characterisation of $\text{Al}_6\text{Cr}_2\text{Fe}_7$ Quasicrystalline Approximant. Kovové materiály, 44, 2006, s.313-320

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

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

ŠPAKOVÁ, J. - **KOVALČÍKOVÁ, A.** - KOVALČÍK, J. - **DUSZA, J.** - LENKEY, G.: Dynamic Fracture Behaviour of Some Brittle Materials. Kovové materiály, 45, 2007, s.209-213

KOVALČÍKOVÁ, A. - **ŠPAKOVÁ, J.** - **DUSZA, J.** - BALOG, M. - ŠAJGALÍK, P.: Microstructure and Mechanical Properties of Liquid-Phase-Sintered $\text{SiC}+\text{Si}_3\text{N}_4$ Composites. Kovové materiály, 45, 2007, s.223-229

BALOG, M. - **KOVALČÍKOVÁ, A.** - ZALITE, I. - LENČEŠ, Z.: Sintering of Si_3N_4 Nano-Powder Prepared by Plasma Synthesis. Kovové materiály, 45, 2007, s.195-198

HEGEDUSOVÁ, L. - **KOVALČÍKOVÁ, A.** - **DUSZA, J.:** Contact Strength Test of Si_3N_4 and SiC with Opposite Roller Loading. Kovové materiály, 46, 2008, s.377-383

BIDULSKÁ, J. - BIDULSKÝ, R. - **CENIGA, L.** - KVAČKAJ, T. - CABBIBO, M. - EVANGELISTA, E.: Hot Workability Evaluation of Zr-Stabilized Aluminium alloy 2014 by means of Torsion Test. Kovové materiály, 46, 2008, s.151-155

BESTERCI, M. - VELGOSOVÁ, O. - IVAN, J. - **HVIZDOŠ, P.** - KOHÚTEK, I.: Influence of Volume Fraction on Fracture Mechanism of $\text{Al}-\text{Al}_4\text{C}_3$ System Studied by "in-situ Tensile Test in SEM". Kovové materiály, 46, 2008, s.139-143