

Top 20 publications group Ceramic based Composites



SCOPUS, self citations of all authors excluded

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- 1 J. Kübler, Fracture Toughness of Ceramics using the SEVNB Method: Preliminary Results, Ceramic Engineering & Science Proceedings, ed. J.P. Singh, American Ceramic Society, Vol.18, Issue 4, ISSN 0196-6219, pp.155-162, 1997
- 2 G. Blugan, J. Kuebler, V. Bissig, J. Janczak-Rusch, Brazing of silicon nitride ceramic composite to steel using SiC-particle-reinforced active brazing alloy, **Ceramics International**, 33 (2007) 1033-1039
- 3 M. Lugovy, V. Sliyunyayev, N. Orlovskaya, G. Blugan, J. Kuebler, M. Lewis, Apparent Fracture Toughness in Si₃N₄-based Laminates with Residual Compressive or Tensile Stresses in Surface Layers, **Acta MATERIALIA**, 53 (2005) 289-296
- 4 A. Duszová, J. Dusza, K. Tomášek, G. Blugan, J. Kuebler, Microstructure and properties of carbon nanotube / zirconia composite, **Journal of the European Ceramic Society** 28 (2008) 1023-1027
- 5 O. Beffort, S. Long, C. Cayron, J. Kuebler, Ph.-A. Buffat, Alloying effects on microstructure and mechanical properties of high volume fraction SiC-particle reinforced Al-MMCs made by squeeze casting infiltration, **Composites Science and Technology** 67 (2007) 737-745
- 6 T. Etter, J. Kuebler, T. Frey, P. Schulz, J.F. Löffler, P.J. Uggowitz, Strength and fracture toughness of interpenetrating graphite/aluminium composites produced by indirect squeeze casting process, **Materials Science and Engineering A**, 386 (2004) 61-67
- 7 A. Duszová, J. Dusza, K. Tomášek, J. Morgiel, G. Blugan, J. Kuebler, Zirconia/carbon nanofiber composite, **Scripta Materialia** 58 (2008) 520-523
- 8 G. Blugan, J. Janczak-Rusch, J. Kuebler, Properties and fractography of Si₃N₄/TiN ceramic joined to steel with active single layer and double layer braze filler alloys, **Acta MATERIALIA** 52 (2004) 4579-4588
- 9 J. Dusza, G. Blugan, J. Morgiel, J. Kuebler, F. Inam, T. Peijs, M.J. Reece, V. Puchy, Hot Pressed and spark plasma sintered zirconia/carbon nanofiber composites, **Journal of the European Ceramic Society** 29 (2009) 3177-3184 (doi:10.1016/j.jeurceramsoc.2009.05.030)
- 10 A. Nakajo, J. Kuebler, A. Faes, U.F. Vogt, H.J. Schindler, L.-K. Chiang, S. Modena, J. Van herle, T. Hocker, Compilation of mechanical properties for the structural analysis of solid oxide fuel cell stacks. Constitutive materials of anode-supported cells, **Ceramics International** 38 (2012) 3907-3927
- 11 Z. Guo, G. Blugan, T. Graule, M. Reece, J. Kuebler, The Effect of Different Sintering Additives on the Electrical and Oxidation Properties of Si₃N₄-MoSi₂ Composites, **Journal of the European Ceramic Society** 27 (2007) 2153-2161
- 12 Z. Guo, G. Blugan, R. Kirchner, M. Reece, T. Graule, J. Kuebler, Microstructure and Electrical Properties of Si₃N₄/TiN Composites Sintered by Hot Pressing and Spark Plasma Sintering, **Ceramics International** 33 (2007) 1223-1229
- 13 K. Lemster, T. Graule, J. Kuebler, Processing and microstructure of metal matrix composites prepared by pressureless Ti-activated infiltration using Fe-base and Ni-base alloys, **Materials Science and Engineering A**, 393 (2005) 229-238
- 14 J. Kübler, Fracture Toughness of Ceramics using the SEVNB Method: From a Preliminary Study to a Standard Test Method, Fracture Resistance Testing of Monolithic and Composite Brittle Materials, ASTM STP 1409, J. A. Salem, M. G. Jenkins, and G. D. Quinn, eds., ASTM, West Conshohocken, PA, USA, ISBN 0-8031-2880-0, pp. 93-106, January 2002

- 15 B. Moser, J. Kuebler, H. Meinhard, W. Muster, J. Michler, Observation of Instabilities during Plastic Deformation by in-situ SEM Indentation Experiments, **Advanced Engineering Materials**, 2005, 7, No.5, 388-392
- 16 G. Krauss, J. Kübler, E. Trentini, Preparation and properties of pressureless infiltrated SiC and AlN particulate reinforced metal ceramic composites based on bronze and iron alloys, **Materials Science and Engineering A337** (2002) 315-322
- 17 M. Bahraini, T. Minghetti, M. Zoellig, J. Schubert, K. Berroth, C. Schelle, T. Graule, J. Kuebler, Activated pressureless infiltration of metal matrix composites with graded activator content, **Composites: Part A** 40 (2009) 1566-1572
- 18 K. Lemster, M. Delporte, T. Graule, J. Kuebler, Activation of alumina foams for fabricating MMCs by pressureless infiltration, **Ceramics International** 33 (2007) 1179-1185
- 19 N. Orlovskaya, M. Lugovy, S. Pathak, D. Steinmetz, J. Lloyd, L. Fegely, M. Radovic, A. Payzant, E. Lara-Curzio, L. Allard, J. Kuebler, Thermal and mechanical properties of LaCoO_3 and $\text{La}_{0.8}\text{Ca}_{0.2}\text{CoO}_3$ perovskites, **Journal of Power Sources** 182 (2008) 230-239
- 20 Kh.V. Manukyan, S.L. Kharatyan, G. Blugan, P. Kocher, J. Kuebler, MoSi_2 - Si_3N_4 composites: Influence of starting materials and fabrication route on electrical and mechanical properties, **Journal of the European Ceramic Society** 29 (2009) 2053–2060