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Properties of TiC-Ni₃Al Composites; MMCs by Activated Melt Infiltration
 High Melting Alloys and Oxide Ceramics; Multifunctional Metal-Ceramic
 Composites by Solid Free Forming (SFF); Solid Freeform Fabrication of a
 Piezoelectric Ceramic Torsional Actuator Motor; Centrifugal Sintering;
 Alumina-Based Functionally Gradient Materials by Centrifugal Molding
 Technology
 Investigation of a Novel Air Brazing Composition for High Temperature,
 Oxidation-Resistant Ceramic Joining
 Joining of Advanced Structural
 Materials by Plastic Deformation; Mechanical Performance of Advanced
 Ceramic Parts Joined by Plastic Flow; Physical Characterization of
 Transparent PUT Ceramics Prepared by Electrophoretic Deposition;
 Fabrication of Microstructured Ceramics by Electrophoretic Deposition
 of Optimized Suspensions; low Cost Process for Mullite Utilizing
 Industrial Wastes as Starting Raw Material; Low-Cost Processing of Fine
 Grained Transparent Yttrium Aluminum Garnet
 Gas-Pressure Sintering of Silicon Nitride with Lutetia Additive
 Use of
 Combustion Synthesis in Preparing Ceramic Matrix and Metal-Matrix
 Composite Powders; Mechanical Reliability of Si₃N₄; Correlation of
 Finite Element with Experimental Results of the Small-Scale Vibration
 Response of a Damaged Ceramic Beam; Macro-Micro Stress Analysis of
 Porous Ceramics by Homogenization Method; X-Ray and Neutron
 Diffraction Studies on a Functionally-Graded Ti₃SiC₂-TiC System;
 Modeling of Transient Thermal Damage in Ceramics for Cannon Bore
 Applications; Strengthening of Ceramics by Shot Peening
 Solid Oxide Fuel Cells
 DOE FE Distributed Generation Program;
 lanthanum Gallate Electrolyte for Intermediate Temperature; Solid
 Oxide Fuel Cell Development at Forschungszentrum Juelich;
 Development of MOLB Type SOFC; Development of Advanced Co-Fired
 Planar Solid Oxide Fuel Cells with High Strength; Electrophoresis: An
 Appropriate Manufacturing Technique for Intermediate Temperature
 Solid Oxide Fuel Cells; Microstructure-Performance Relationships in
 LSM-YSZ Cathodes; Role of Cathode in Single Chamber SOFC;
 Morphology Control of SOFC Electrodes by Mechano-Chemical Bonding
 Technique
 Improved SOFC Cathodes and Cathode Contact Layers

Sommario/riassunto

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