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HafnatesThermophysical Properties of Sintered SrY2O4 and the Related Compounds Applicable to Thermal Barrier Coating Materials; Electrical Properties of Microwave Plasma Chemical Vapor Deposited Diamond Thin Films; Dielectric Properties of Suspensions Containing BaTiO3

Particles; Enhancement of Crystal Growth in Melt Texturing Ca-Doped Y-Ba-Cu-O Superconductors: Micro-Raman Spectroscopy of a Vickers Indent on Soft PZT: R-Curve and Stress-Strain Behavior of Hard and Soft PZT Ceramics; Fuel Cells and Related Systems Fabrication of SOFC Electrodes by Impregnation MethodsInvestigation of Nd0.6Sr0.4CO1-yMyO3-(M = Fe and Mn) as Cathode Materials for Intermediate Temperature Solid Oxide Fuel Cells; Anode Supported Solid Oxide Fuel Cells with Improved Cathode/Electrolyte Interface; Long-Term Effects in Ag-CuO Brazes under Dual Reducing/Oxidizing Gas Conditions; Self Healing Glass Seals for Solid Oxide Fuel Cells; Novel Sol-Gel Synthesis and Characterization of High-Surface-Area Pt-Ru Catalysts as Anodes for Direct Methanol Fuel Cells; Grain Boundary Segregation and Conductivity in Yttria-Stabilized Zirconia Other Electronic Ceramic Applications Electrically Conductive Mechanisms for Al2O3-C-TiCN Ceramics; Dielectric Properties of High-K LTCC Materials; Monolithic Integration of Nonlinear Ba1-xSrxTiO3 Thin Films with Affordable Silicon Substrates for Frequency Agile Microwave Device Applications; Index

Sommario/riassunto

This proceedings contains papers presented at the Electronics in Extreme Environments, International Fuel Cells and Related Systems, and Advanced Dielectrics for Wireless Communications symposia.