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Nota di contenuto	Electroceramics VI; Committees and Acknowledgement; Table of Contents; Chapter 1: Ferroelectrics, Piezoelectrics and Pyroelectrics; Ferroelectric Properties of Bi0.5(Na0.8K0.2)0.5TiO3 Ceramics; Physical Properties of Self-Polarized PZT Thin Films at Compositions around the Morphotropic Phase Boundary; Structure, Dielectric Relaxor Behavior and Ferroelectric Properties of Sr1-xLaxBi2Nb2-x/5O9 Ferroelectric Ceramics; PZT Dielectric Ceramic Characterization for Application in Nonlinear Transmission Lines; Titanium K-Edge XAS Study on Local Structure of Pb1-xCaxTiO3 Ferroelectric Ceramics Effects of La Doping on the Structural and Dielectric Properties of Barium Titanate CeramicsCr-Doping-Induced Ferromagnetism in CeO2- Nanopowders; Electrodeposition of Zinc Oxide NanoSheets on Exfoliated Tips of Carbon Nanotube Films; Ultrasonic Synthesis of SrTiO3; Characterization of Multilayer Ferroelectric Ceramic Capacitors in a Wide Frequency Range for RF Applications; Chapter 2: Thermoelectrics; Structural and Thermal Properties of YMn1-xRuxO3; Chapter 3: Ionic and Electronic Conductors and Applications to Solid

Oxide Fuel Cells and Membrane Technology

Influence of the Zn Dopant in Structural and Electrical Properties of the La2Ni1-xZnxO4Ionic Conductivity of Chemically Synthesized La0.9Sr0.1Ga0.8Mg0.2O3- Solid Electrolyte; Effect of Manganese Dioxide Addition on the Cubic Phase Stability, Densification and Electrical Conductivity of Scandia-Stabilized Zirconia; Chapter 4: Magnetic and Superconducting Ceramics; Effects of Oxygen Doping on the Transport Properties of Hg0.82Re0.18Ba2Ca2Cu3O8+d Superconducting Polycrystals; Magnetic Properties of YBCO/LCMO Superlattices with and without STO Interlayers

Characterization of Superconducting BSCCO/CaSiO3 and BSCCO/CaZrO3 Ag PIT WiresMagnetocrystalline Properties of Sr1.4Ba1.6Co2Fe24O41; Effects of Ca2+-Doping on the Crystal Lattice of -Fe2O3; Ferromagnetic Cluster on La2FeMnO6; Characterization of Bi2212 Superconductor Bulk Samples by Digital Image Processing; Chapter 5: Materials for Fuel Cells; Preparation of (BaSr)0.5Sm0.5C0.8Fe0.2O3- and (BaSr)0.5Nd0.5C0.8Fe0.2O3- Cathodes for IT-SOFCs; Low Temperature Synthesis of Lanthanum Silicate Apatite Type by Modified Sol Gel Process; Particle-Filled Polysilazane Coatings for Steel Protection

Effects of Microwave Processing on the Properties of Nickel Oxide/Zirconia/Ceria CompositesChapter 6: Electroceramic Devices. Sensors and Actuators; Effect of Cd Doping on Mechanical Properties of SrCoO3; Electrical Properties of a TiO2-SrO Varistor System; Development and Test of a Small Resistive Fault Current Limiting Device Based on a SmBaCuO Ceramic; Electrodeposition of Zinc Oxide on Graphene Tips Electrochemically Exfoliated and O2-Plasma Treated; Dielectric Properties of CaCu3Ti4O12 Synthesized by Different Routes Gas Sensor Properties of ZnO Nanorods Grown by Chemical Bath Deposition

Sommario/riassunto

Collection of selected, peer reviewed papers from the 6th International Conference on Electroceramics, November 9-13, 2013, Joao Pessoa, Brazil. The 47 papers are grouped as follows: Chapter 1: Ferroelectrics, Piezoelectrics and Pyroelectrics, Chapter 2: Thermoelectrics, Chapter 3: Ionic and Electronic Conductors and Applications to Solid Oxide Fuel Cells and Membrane Technology, Chapter 4: Magnetic and Superconducting Ceramics, Chapter 5: Materials for Fuel Cells, Chapter 6: Electroceramic Devices. Sensors and Actuators, Chapter 7: Solar Photovoltaic and Photoelectrochemical Cells, Chapter 8: