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Altri autori (Persone)	ZhangCheng HuJin
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Nota di contenuto	Dianchi Advanced Materials Forum 2013; Preface; Table of Contents; Chapter 1: Ceramics and Ceramics-Matrix Composites; First-Principles Study of Polarization Behavior in BaTiO3/PbTiO3 Ferroelectric Superlattices; Phase Structure of Nanocrystalline BaTiO3 Powders via One-Step Solvothermal Route; Electrical Characterization and Microstructures of Bi4-x HoxTi3O12 Ceramics; Electrical Characterization and Microstructures of Bi4-xTmxTi3O12 Ceramics; Ferroelectric Characterization and Microstructures of Bi4-xLuxTi3O12 Ceramics Electrical Characterization and Microstructures of Bi4-xScxTi3O12 Ceramics Grown by Electroceramic Technique Large Remanent Polarization of Bi4Ti3O12 Films by Ho3+ Substitution; Ferroelectric Properties and Microstructures of Bi4-x LuxTi3O12 Thin Films; Electrical Characterization and Microstructures of Bi4-x Scx Ti3O12 Thin Films Grown by Pulsed Laser Deposition Technique; Preparation and Ferroelectric Properties of Bi4-xTmxTi3O12 Thin Films; Sol-Gel Synthesis of Nanocomposite Li4Ti5O12/Carbon Nanotubes as Anode Materials for High-Rate Performance Lithium Ion Batteries

An Electrochemical Impedance Spectroscopy (EIS) Study of Zn-Doped Li (Ni_{1/3}Co_{1/3}Mn_{1/3}) O₂ Cathode Materials in the First Delithiation Process; Preparation and Electrochemical Performance of SnO₂/C-La_{0.3}Sr_{0.7}MnO₃ Composites for Li-Ion Anode; Preparation Technology of ITO Composite Oxides Nanopowder; Role of the Mg/Al Atomic Ratio in Catalyst Support for NO_x Storage/Reduction; First-Principles Study of the ZnO(1120) Structure and Ti Adsorption; Microwave Sintering and Electric Properties of ZnO Varistor Ceramics
Preparation of Acicular-Like ZnO Nanostructured Powder Using Ball Mill Zinc Powder by Hydrothermal Method; Photocatalytic Properties of (Fe, N)-Codoped TiO₂; Study on the Second Phases of (Y,Nb)-Codoped TiO₂ Ceramic; Pore Controllable Regulation and Laccase Immobilization of Hollow Mesoporous SiO₂/Fe₃O₄ Microspheres; High Frequency Magnetic Properties of A Composite Material Prepared from Z-Type Hexaferrite and Bi₂O₃; The Effect of Polyethyleneimine (PEI) on the Texture and Morphology of YBCO Films; Effect of Aluminum Dross on Properties of the Lightweight Mullite Aggregate
Current Distribution Model and Control Principle of MgAlON Composites by Spark Plasma Sintering (SPS); Grain Refinement Mechanism of MgAlON Composites Prepared by Spark Plasma Sintering; Microstructure Homogeneity, Crack Propagation and Self-Toughening of Solidified TiC-TiB₂ Composite Prepared by Combustion Synthesis in Enhanced High-Gravity Field; Melt Modification and Microstructure Homogeneity of Solidified TiC-TiB₂ Composites Prepared by Combustion Synthesis in Ultrahigh Gravity Field
Cover Confinement and Ballistic Performance of TiC-TiB₂ Ceramic Armor under the Impact of Long-Rod KE Penetrator of 1400 m·s⁻¹

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2013 Dianchi Advanced Materials Forum, July 23-25, 2013, Kunming, China. The 81 papers are grouped as follows: Chapter 1: Ceramics and Ceramics-Matrix Composites; Chapter 2: Metals and Metal-Matrix Composites; Chapter 3: Polymers and Polymer-Matrix Composites
