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Altri autori (Persone)	BaoYiwang JiangDanyu GongJianghong
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Nota di contenuto	Testing and Evaluation of Inorganic Materials IV; Preface; Table of Contents; Chapter 1: Chemical Composition and Microstructure; Determination of Oxygen Content in Pervoskite-Type Cathode Coatings; Raman Spectroscopy Study of YSZ Co-Doped with CeO2/Gd2O3; Fourier Transformation Infrared Spectrum Characteristics of Synthetic Zeolite A; Microstructure and Chemical Composition of Boron Nitride Fibers; Characterization and Thermal Decomposition Process of ZrC Ceramic Organic Precursor; Rheological Property of Intercalated Modification Clay Preparation and Characterization of SiO2 Nano/Submicron-Rods by Catalytic Pyrolysis of a Polymer Precursor Preparation and Development of Bioglass by Sol-Gel Method; Study on Na2O-B2O3-SiO2-CaO-P2O5-F System Glass-Ceramics; Pore Structure Analysis on Hardened Paste of CaO-Al2O3-P2O5 Cement; Pore Structure and Microstructure of Super Light-Weight Foam Concrete Reinforced by Inorganic Fiber; Effect of

WO3 Doping on Microstructural and Electrical Properties of ZnO-Pr6O11 Based Varistor Materials
Influence of Process Parameters on Surface Morphology of Ceramic Layer Prepared by Micro Arc Oxidation on Aluminum Alloy 6061
Preparation and Characterization of ZrO2 Coating by Sol-Gel on Mullite Short Fiber; Low Sintering Temperature for Li-, Sb-, and Ta- Modified (K,Na)NbO3-Based Ceramics from Nanopowders; Spark Plasma Sintered WC-Ni Cemented Carbides with Various Contents of ZrC Nano-Powder; Composition Modification and Mechanical Properties of Solidified TiB2-Based Ceramic Prepared by Combustion Synthesis in Ultra-High Gravity Field
Microstructures and Properties of TiC-TiB2 Composites Prepared by Combustion Synthesis in Enhanced High-Gravity Field Microstructure and Fracture Behavior of the Joint of Solidified TiB2 Ceramic with Ti-6Al-4V Achieved by Reaction Fusion Bonding in Ultrahigh-Gravity Field; Effect of N2 Flow Rate on Structure and Mechanical Properties of CrN Coatings Prepared by Closed Field Unbalanced Magnetron Sputtering; Influence of Substrate Temperature and Bias Voltage on Structure and Mechanical Properties of CrN Coatings; Large Remanent Polarization of Pm2O3-Doped Bi4Ti3O12 Films
Research Progress in Bioactive Glasses for Implant Materials Effect of Two Kinds of Rare Earth Oxides on Zirconia Restoration; Microstructure and Properties of Resin-Based Pyrocarbon with Micro-Nano Structure Carbon and TiO2 as Additives; Effect of Oxidant on the Leaching Rate of Indium from Water Quenching Slag; Fabrication of Nano Zeolite P from Coal Fly Ash by Combining Alkaline - Fusion and Hydrothermal Reactions; Preparation of Geopolymer Using Electrolytic Manganese Residue; Characterization of MCM-41 Mesoporous Silica Supported 2-Carboxyethyl Phenyl Phosphinic Acid
Characterization of Layered Double Hydroxide Modified with Sodium Dodecyl Sulfate and its Dispersion in Polyethylene

Sommario/riassunto

Collection of selected, peer reviewed papers from the Fourth Annual Meeting on Testing and Evaluation of Inorganic Materials, June 7-9, 2013, Guilin, China. The 77 papers are grouped as follows: Chapter 1: Chemical Composition and Microstructure; Chapter 2: Mechanical and Physical Properties; Chapter 3: Testing Techniques and Devices. The meeting focused on the mechanical, chemical, and physical properties and the microstructure of ceramics, glass, and concrete and on techniques for testing such properties. The 77 papers include discussions of the microstructure and chemical composition of bor