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Nota di contenuto	Testing and Evaluation of Inorganic Materials V; Preface; Table of Contents; Chapter 1: Chemical Composition, Microstructure, Physical Properties and Technologies of Producing and Processing of Inorganic Materials; Influence of Mixing Environmental Conditions on Flowability of Lactose Blends; Preparation of Xonotlite Nano-Fibres Using the Silica Source from Coal Fly Ash and Ca(OH) ₂ ; Characterization of Co-Modified -Fe ₂ O ₃ Based Composite Nanoparticles; Synthesis of Spherical Nano-Hydroxyapatite by Hydrothermal Method with L-Lysine Template Synthesis and Performance Characterization of Highly Active Samarium Doped TiO ₂ Nanopowder Preparation and Characterization of Wire-Liked NiFe ₂ O ₄ Nanoparticles with High Specific Area and Excellent Magnetic Properties via a Template-Assembled Sol-Gel Method; Aqueous Gelcasting Synthesis of Zirconium Diboride; Preparation of Nano-Sized Wollastonite Using Calcium Silicate Residue of Potassium Feldspar after Extraction of Potassium and Alumina; Improved

Efficiency of TiO₂ Nanotube Arrays with TiCl₄ Treatment in Dye-Sensitized Solar Cells
 Microstructure Analysis of SiC Ceramic Support by Isostatic Processing
 Effects of Nb₂O₅/La₂O₃ Synergistic Modification on Phase Composition, Microstructure and Mechanical Properties of Al₂O₃ Ceramics Prepared by Microwave Sintering; Influence of Si₃N₄ Adding on the Performance of Al-Al₂O₃ Composite; Influence of Aluminum Contents on Phase Behavior and Properties of TiN-Sialon-Corundum Composites by Aluminothermic Reduction Nitridation; Effect of Mineral Composition and Sintering Temperature on the Synthetic Cordierite
 The Effects of Mineral Composition and Sintering Temperature on Synthetic Mullite
 Surface Densification of Silica Ceramic; Preparation and Characterization of Layered Rare Earth Compound; Synthesis and Characterization of Ce_{0.5}Zr_{0.5}O₂ Nanocomposite and its Supported Pd-Only Catalysis Activity; Microstructure and Properties of Ti(C,N)-Based Cermets; The Properties of Plastic Phase Mullite-SiC Bricks and its Utilization in Cement Kilns; Densification Behavior and Microstructure Evolution of LTCC Film Constrained by Rigid Substrate
 Sulfate-Ion Pillared Layered Hydroxide of Eu₂(OH)₄SO₄·nH₂O: Controlled Hydrothermal Processing, Thermal Decomposition, and Photoluminescence
 Synthesis and Photo-Catalytic Performance of ZnO/Graphene Composites; Etching Morphology of Vitreous Silicon Dioxide in HF-Based Solution; Preparation of Porous Hydroxylapatite Using Polystyrene Microspheres as Pore Former; Performance and Phase Behavior of Quartz-Aluminum Matrix Composites; Effect of Cerium on Manganese Base Catalysts by Co-Precipitation for Low-Temperature SCR of NO with NH₃
 A Novel Approach of Reusing Kerf Loss Wastes in Preparation of - SiC/Si₃N₄ Bonded SiC Refractory

Sommario/riassunto

Collection of Selected, Peer Reviewed Papers from the Proceedings of the Fifth Annual Meeting on Testing and Evaluation of Inorganic Materials, April 16-18, 2014, Guiyang, China. The 115 papers are grouped as follows: Chapter 1: Chemical Composition, Microstructure, Physical Properties and Technologies of Producing and Processing of Inorganic Materials, Chapter 2: Techniques and Devices for Analysis and Testing of Materials Properties.
