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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
