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Autore	Xu B
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Nota di contenuto	Materials in Industry and Nanotechnology; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Materials Science and Material Processing Technologies; Preparation and Characterization of Graphite Oxide; Electronic Structures in LaTiO3/LaAlO3 Multilayers; Study on Biochemical Materials with Development of Hollow and Paclitaxel-Loaded Bubbles for Ultrasound Controlled Drug Release; A Practical Judge Model to Simulate Lithium-Ion Battery Material Discharge Voltage Threshold; Effects of Rare Earth Metal Ce Additions on the 1150°C Isothermal Oxidation Behavior of Ni-20Cr Alloy Experimental Investigation on the Influence of Water-Cement Ratio on Air-Void Parameters of Cement Concrete Effect of Electrolytic/Chemical Pretreatment on Adhesion Strength of DLC Coatings on 304 Stainless Steel Substrate; Optimization of Ultrasonic Extraction Process by Response Surface Methodology of Polysaccharides from Tussilago farfara L.; Biodegradation of 2,2' 4,4-tetrabromodiphenyl Ether in an Aerobic Environment by a Novel Strain of Bacillus sp.; The Preparation, Morphology and Electrical Properties of Polystyrene/Graphene Nanocomposite Foams Using Supercritical Carbon Dioxide Effect of Reflux Time on Photocatalytic Properties of N-TiO2 Synthesized by Reflux Method Characterization of Cathode Materials Ln0.7Sr0.2Ca0.1Co0.7Fe0.3O2.85 (Ln=La, Pr and Nd) Synthesized by Microwave Sintering Techniques; Preparation of P-and S-Containing

UV-Cured Cardanol Polymers via Thiol-Ene Click Chemistry; UV Sensitive Indium Gallium Zinc Oxide MOS- FET Fabricated by RF Magnetron Sputtering Method; Aspheric Surface NC Polishing Force-Position Decoupling Control Technology; Research on Particle Flow Erosion Precision Electroforming Technology
Study on the Influence of Organic Fiber and SBR Latex on the Bending Properties of Rubber Mortar Study on the Influence of Polypropylene Fiber and SBR Latex on the Mechanical Properties of Rubber Mortar and Microstructures Analyzed; Effect of Sol Infiltration on Microstructures of Biomorphic TiO2; Chapter 2: Nanotechnology and Its Application; Structural and Electronic Properties of Armchair GaN Nanoribbons with AlN Edges: First-Principles Study; Preparation and Viscoelastic Properties of Waterborne Polyurethane/Cellulose Nanocrystals Composites
Preparation and Adsorption Property of Nano-Rods Hydroxyapatite Using Cationic Surfactant Templates Nano Aluminum Powders Oxidation in CO2 and O2 Environments; International Collaboration in Nanotechnology from 1991 to 2010 Based on Patent Analysis; Preparation and Thermophysical Properties of SiO2 Nanofluids; Design of LIA Processor with Nanosize Electronic Technology Based on FPGA Chip; Fabrication and Electroluminescence of N-ZnO Nanorods/p-Si Nanowires Heterostructured Light-Emitting Diodes; Chapter 3: Application of Materials in Industry
Synthesis and Characterization of Poly(N-Isopropylacrylamide)-Modified Zinc Oxide Nanoparticles

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2013 2nd International Conference on Function Materials and Nanotechnology (FMN2013), July 13-14, 2013, Nanchang, China. The 43 papers are grouped as follows: Chapter 1: Materials Science and Material Processing Technologies; Chapter 2: Nanotechnology and Its Application; Chapter 3: Application of Materials in Industry. The 43 papers cover materials science and material processing technologies, nanotechnology and its applications, and applications of materials in industry. Among specific topics are the experimental investigation