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Altri autori (Persone)	QingzhouXu
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Nota di contenuto	Advances on Material Science and Manufacturing Technologies; Preface and Organizing Committee; Table of Contents; Chapter 1: New Materials and Advanced Materials; Investigation on Nano-Sized ZnO Powder Doped with Al <sup>3+</sup> Prepared by Sol-Gel Method; Mechanical Properties of Recycled Butyl Rubber/Virgin Butyl Rubber Composite; Synthesis and Characterization of Acrylamide Based Benzoxazine; Mineralogical Study of Huashan Granite-Type Uranium Ore Deposit in Northeast of Guangxi Effects of Individual Layer Thickness on the Structure and Electrical Properties of Sol-Gel-Derived Ba <sub>0.8</sub> Sr <sub>0.2</sub> TiO <sub>3</sub> Thin Films Research Progress of Application of Porous Polymer in Energy Storage; Preparation and Properties of Graphene/Polyamide 6 Composites by Melt Compounding; The Effects of B <sub>2</sub> O <sub>3</sub> Addition and Sintering Temperature on the Electrical Properties of SnO <sub>2</sub> Based Varistors; A Research of the Spongy Foams from Interpenetrating Polymer Network of Polyurethane/ Epoxy Resin Preparation of Flame Retardant Polyamide 6 Fibers with Melamine Cyanurate and Bicyclic Phosphates via Melt Spinning Study on the Properties of Poplar Micro/Nanofibril and its Composites; A Study on Modification Technology of Poplar through Impregnating with UF Resin;

Effect on the Microstructure and Properties of WC-10% Co Alloy Co-Doped with NbC and Cr<sub>3</sub>C<sub>2</sub>; Preparation of Sludge Activated Carbon Adsorbent and its Engineering Simulation Study to Removing Odor; A Generalized Route to Synthesize Nanometer-Sized Metal Oxides by Using Frothing Method

Citric Based Sol-Gel Synthesis and Photoluminescence Properties of Eu<sup>3+</sup> Doped NaSrBO<sub>3</sub> Phosphors; Effect of Heat Treatment to Ni-20wt.% Al Coating Diffusion; Study on Synthetic Process of Low Toxic Urea-Formaldehyde Resin; Characterization of Antibacterial Effects of Novel Silver Nanoparticles: A Case Study on Pseudomonas as a Model for Gram-Negative Bacteria; Effects of Hydrothermal Treatment on the Structure and Properties of Aviation Polysulfide Sealant; Protein Adsorption on Surface-Attached Weak Polyelectrolyte Layers  
Research and Evaluation on the Machining Properties of Plantation Eucalyptus Veneer LVL; Preparation of Conductive Adhesives by Ag/CNTs Composite Nano-Particles; Gold Nanoparticles Self-Assembling on Surfaces of Carbon Nanotubes Modified by Mercapto Groups; Study of Preparation and the Influencing Factors of Chrysanthemum-Shaped Calcium Carbonate Applied to Paper Industry; Preparation and Corrosion Behaviour of Micro-Arc Oxidation Coating on Ti6Al4V Alloy; Phloridzin Isolated from Apple Pomace by Resin; The Mineral Chemistry and Classification of New Ordinary Chondrites Collected in Antarctica  
Preparation and Characterization of Cyclophosphamide-Loaded Chitosan Microspheres

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#### Sommario/riassunto

The collection includes selected, peer-reviewed papers from the International Conference on Materials Science and Manufacturing (ICMSM2012) held December 14-16, 2012 in Zhangjia Jie, China. It aims to cover the recent advancement and trends in the area of new materials, advanced materials, advanced manufacturing technologies, and manufacturing systems and automation to facilitate knowledge sharing and networking interactions on emerging trends and new challenges.

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