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Collana	Materials Science Forum, , 1662-9752 ; ; Volume 809-810
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	2014 China Functional Materials Technology and Industry Forum; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Nanoscale Materials and Nanocomposites; Thermoelectric Properties of Binary-Phased Nanocomposites; Effect of Additives on the Formation of SmCo Magnetic Nanoparticles by Chemical Synthesis; Research Development of Preparation Technology of BaTiO3 Nano-Power; Synthesis of PbS Nanocrystals by Heterogeneous Reaction; Lubrication Mechanism of Nanoparticles in Metal Hot Deformation; The Preparation and Photo-Thermal Property of Ag2S Nanomaterials Multiwalled Carbon Nanotubes Covered with Cobalt (II) Phthalocyanine by In Situ Synthesis and its Electrochemical Sensing Performance towards DA and UAMild and Low-Cost Synthetic Process for Monodispersive Platinum Nanoparticles on Carbon Aerogel; Synthesis and Characterization of Poly(2-acrylamido-2-methyl propyl sulfonic acid-co-2-hydroxyethyl methacrylate)/ Silver Nanoparticle Composite

Hydrogel as Catalysts for the Reduction of 4-Nitrophenol; Synthesis and Optical Property of -In₂S₃ Nanorods; Preparation of Chromium Nitride Nanopowders Using High Pressure Gas-Solid Reaction Bed Preparation of Silver Nanoparticles in Water-Alcohol Media; New Preparation Method and Characterization of Nanosilver; Influence of Nd Doping on the Magnetic Properties of Nd₂Fe₁₄B/-Fe Nanocomposite Magnets; Influence of Fabrication Parameter on the Nanostructure of SiNWs under HF/AgNO₃/Fe(NO₃)₃ Etching System; Giant Magnetoelectricity in Fe_{73.5}Cu₁Nb₂V₁Si_{13.5}B₉ Nanocrystalline Ribbons; Preparation and Performance of Polypropylene/Modified Carbon Fibers by Physical Blending Method; One-Step Preparation of Nanoparticulate TbFeO₃ by Microwave Process and its Visible-Light Photocatalytic Activity; Nanoscale Hollow-Bubbly Polypyrrole Obtained via Interfacial Polymerization with Phase Transfer Catalyst; Influences of Reaction Temperature on Structure and Performances of SnO₂ Nanocrystals Prepared by Microwave Hydrothermal Method; Chiral Resolution of Ofloxacin Using Carboxylated Multi-Walled Carbon Nanotubes Mediated Thin-Layer Chromatography; Lawson Cypress Leaf-Like ZnO Hierarchical Nanostructures by Self-Assembly; Research on Preparation of Barium Titanate Nano Powder by Sol-Gel; Preparation of Nanoparticulate ErFeO₃ by Microwave Assisted Process and its Photocatalytic Activity; Multifunctionalities of Nanocarbon Materials Filled Cement-Based Composites; Effect of Nano-Magnesium on the Thermal Decomposition of PTFE; Synthesis and Properties of Nano-TiO₂ Modified Fluorine-Containing Polyacrylate Soap-Free Emulsion; Fabrication of Highly Hydrophobic Polyurethane Foam for the Oil-Absorption Application; Effects of Carboxyl Functionalized Carbon Nanotube on the Tensile Strength and Wear Resistance of Epoxy Composites; Improved Low Temperature Solution Synthesis of Silicon Nanoparticles for Lithium-Ion Batteries; Synthesis of Highly-Ordered V₂O₅ Nanowires by AAO Template and its Electrocatalytic Activity for Dopamine Electro-Oxidation

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 China Functional Material Technology and Industry Forum (CFMTIF 2014), August 26-28, 2014, Xi'an, China. The 149 papers are grouped as follows: Chapter 1: Nanoscale Materials and Nanocomposites; Chapter 2: Microscale Materials and Thick Films; Chapter 3: Polymer Materials; Chapter 4: Metallic Materials and Alloys; Chapter 5: Composites; Chapter 6: Biomaterials; Chapter 7: Thin Film and Coating Materials; Chapter 8: Optical, Electrical and Sensing Material Properties; Chapter 9: Energy Materials; Chapter 10: Natural and Environmental Ma