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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 BaTiO ₃ Nano-Power; Synthesis of PbS Nanocrystals by Heterogeneous Reaction; Lubrication Mechanism of Nanoparticles in Metal Hot Deformation; The Preparation and Photo-Thermal Property of Ag ₂ S 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 Monodisperse Platinum Nanoparticles on Carbon Aerogel; Synthesis and Characterization of Poly(2-acrylamido-2-methyl propyl sulfonic acid-co-2-hydroxyethyl methclate)/ 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 Magnetoimpedance 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
