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Titolo	Frontiers in micro-nano science and technology : selected, peer reviewed papers from the 12th China International Nanoscience and Technology Symposium, Chengdu (2013) and the Nano-Products Exposition, sponsored by Chinese Society of Micro-Nano Technology, and IEEE Nanotechnology Council, (CINSTS 2013), October 27-31, 2013, Chengdu, China // edited by Hailin Cong, Bing Yu and Xing Lu
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Collana	Advanced Materials Research, , 1662-8985 ; ; Volume 924
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Soggetti	Nanotechnology Nanoscience Nanostructured materials
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Frontiers in Micro-Nano Science and Technology; Preface and Committees; Table of Contents; Chapter 1: Synthesis and Preparation; Synthesis of CdSe Quantum-Dots-Sensitized TiO ₂ Nanocomposites with Visible-Light Photocatalytic Activity; Preparation and Properties of Brij97-Based Curcumin-Encapsulated O/W Microemulsions; Synthesis and Luminescence Properties of Pomponlike CaMoO ₄ :Eu ³⁺ Red Phosphors by Hydrothermal Method; The Growth and Optical Properties of Al-Doped ZnO Nanofibers Using PVP Nanofibers as Templates by Atom Layer Deposition Influences of Preparation Process on the Orientation and Properties of PZT Piezoelectric Thick Film Generation Materials Preparation of Silica Microspheres Coated by Nano-ZrO ₂ ; Preparation and Photocatalytic Activity of Fe ³⁺ -TiO ₂ -CTAB Nanostructured Films; One-Step Synthesis of Aqueous Graphene Dispersion Stabilized by Sodium Dodecylbenzene Sulfonate; Influence of the Reaction Temperature on Cd _{1-x} Zn _x S Thin Films with Chemical Bath Deposited; Synthesis and Hydrogen

Absorption Capacity of Multilayered SnO₂ Hollow Microspheres
Preparation and Properties of Chitosan Graft Copolymer Nanoparticles
Using Potassium Diperoxynickelate Synthesis of Allyl-Functionalized
Polymers via Selective Reversible Addition-Fragmentation Chain
Transfer (RAFT) Polymerization; Electrospinning Carboxymethyl
Cellulose Lithium (CMC-Li) Nano Composite Material for High-Rate
Lithium-Ion Battery; Electrospun Cellulose Triacetate Fibers Using
DMSO/Chloroform Co-Solvent System; Effect of Substrate's Surface
Oxidation State on Optical Absorption Property of Au/Si-NPA
Influence of Surfactant on the Crystal Form and Photocatalytic
Properties of Nano-TiO₂ Hydrothermal Synthesis of -Fe₂O₃
Nanocrystals as Anode Electrode Materials for Rechargeable Li-Ion
Batteries; Spherical SrMoO₄:Eu³⁺ Phosphors Prepared by Spray
Pyrolysis; Preparation of TiO₂/Six-Ring Rock Composite with Highly
Photocatalytic Efficiency; The Preparation and Properties of AP-Based
Nano-Limit Growth Energetic Materials; Character and Preparation of
Nano-SiO₂/PI Composites by Sol-Gel Method; Preparation and Study of
0.7(Mg_{0.8}Zn_{0.2})TiO₃-0.3{Ba₄Nd₂₈/3Ti₁₈O₅₄-zBi₂O₃} Microwave
Dielectric Ceramics
Microwave-Assisted Preparation of Nitrogen Doped Nano-TiO₂ and the
Study on the Properties Experimental Study on the Adsorption of MB on
Novel Photocatalyst Yeast/ZnS Hybrid Microspheres; Fabrication on
Hydrophobicity of the Etched Aluminium Alloy Surfaces; Chapter 2:
Property Study; Spin Reorientation Transition and Magnetization
Reversal Mechanism of Gd Doped FeCo High-Frequency Soft Magnetic
Thin Films; Dressing Field Control of Band Gap Reflection in a
Homogeneous Atomic Medium; Optical Properties of Silica Colloids
Suspensions in Electric Field
Study on the Surface Morphologies of Nickel-Phosphorus Ultra-Black
Films

Sommario/riassunto

Collection of selected, peer reviewed papers from the 12th China International Nanoscience and Technology Symposium, Chengdu (2013) and the Nano-Products Exposition, Sponsored by Chinese Society of Micro-Nano Technology, and IEEE Nanotechnology Council, (CINSTS 2013) October 27-31, 2013, Chengdu, China. The 58 papers are grouped as follows: Chapter 1: Synthesis and Preparation, Chapter 2: Property Study, Chapter 3: Applications, Chapter 4: Related Topics The 58 papers explore materials technology that bridges the nano-micro scales. The topics include the one-step synthesis of aqueous graphene
