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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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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 <sub>2</sub> Nanocomposites with Visible-Light Photocatalytic Activity; Preparation and Properties of Brij97-Based Curcumin-Encapsulated O/W Microemulsions; Synthesis and Luminescence Properties of Pomponlike CaMoO <sub>4</sub> :Eu <sup>3+</sup> 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 <sub>2</sub> ; Preparation and Photocatalytic Activity of Fe <sup>3+</sup> -TiO <sub>2</sub> -CTAB Nanostructured Films; One-Step Synthesis of Aqueous Graphene Dispersion Stabilized by Sodium Dodecylbenzene Sulfonate; Influence of the Reaction Temperature on Cd <sub>1-x</sub> Zn <sub>x</sub> S Thin Films with Chemical Bath Deposited; Synthesis and Hydrogen

Absorption Capacity of Multilayered SnO<sub>2</sub> 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-TiO<sub>2</sub>  
Hydrothermal Synthesis of -Fe<sub>2</sub>O<sub>3</sub>  
Nanocrystals as Anode Electrode Materials for Rechargeable Li-Ion  
Batteries; Spherical SrMoO<sub>4</sub>:Eu<sup>3+</sup> Phosphors Prepared by Spray  
Pyrolysis; Preparation of TiO<sub>2</sub>/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-SiO<sub>2</sub>/PI Composites by Sol-Gel Method; Preparation and Study of  
0.7(Mg<sub>0.8</sub>Zn<sub>0.2</sub>)TiO<sub>3</sub>-0.3{Ba<sub>4</sub>Nd<sub>28</sub>/3Ti<sub>18</sub>O<sub>54</sub>-zBi<sub>2</sub>O<sub>3</sub>} Microwave  
Dielectric Ceramics  
Microwave-Assisted Preparation of Nitrogen Doped Nano-TiO<sub>2</sub> 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

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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

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