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Titolo	Advances in materials and materials processing IV : selected, peer reviewed papers from the 2013 4th International Conference on Advances in Materials and Manufacturing (ICAMMP 2013), 18-19 December, 2013, Kunming, China // edited by Zhengyi Jiang, Xianghua Liu and Jingtao Han
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Collana	Advanced Materials Research, , 1662-8985 ; ; Volume 887-888
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Soggetti	Manufacturing processes Materials
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
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	Advances in Materials and Materials Processing IV; Preface and Conference Organization; Table of Contents; Chapter 1: Composites; The Study on Synthesis and Impact Properties of Novel Dual Polymerization of Epoxy Composite Materials to Green Production Process; Investigation of the Thermal and Optical Properties of Photopolymerizable Resin Enforced by Nanopowder in the Green Production Process; Analysis of Micro Structure and Elastic Property on 3-D Tubular Woven Carbon Fiber Composite; Effects of CeO <sub>2</sub> Addition on Mechanical Properties of LaB <sub>6</sub> /B <sub>4</sub> C Composites On the Damping Properties of a Polyurea Elastomer Preparation and Characterization of Phosphorus Removal Agent by Lanthanum-Copper Composite Oxide; Microstructure and Properties of the Dispersion-Strengthened Cu-ZrO <sub>2</sub> Composite for Application of Spot-Welding Electrode; Study on the Mechanical Properties of Steel - Polyurethane Tube; The Study of Impact Rule of Si Element on Cu/Al Composite Interface Compounds; Preparation and Thermal Properties of Polybenzoxazine/TiC Hybrids; Study on the Surfactant/Polymer Combination Flooding Relative Permeability Curves in Offshore Heavy

Oil Reservoirs

Analysis of Composites for Best Designs of Refractive Solar Concentrators  
Experimental Investigation into Spall of Carbon Phenolic Composites; Study on CF Reinforced Interface Properties of PES-C Resin Matrix Composite; Thermal and Mechanical Properties of Aluminate Cementitious Functional Materials Enriched with Nano-SiO<sub>2</sub> for Thermal Energy Storage; Model I Interlaminar Fracture Toughness of Carbon Fiber Reinforced Polymer Matrix Composites; The Influence of Bi<sub>2</sub>O<sub>3</sub> on SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub>-B<sub>2</sub>O<sub>3</sub>-RO Glass Properties  
Study of Synergistic Effects of Cerium Oxide on Intumescent Flame Retardant Polypropylene System  
Chapter 2: Micro/Nano Materials; A Copolymerization Modified Acrylate Resin and its Polyhedral Oligomeric Silsesquioxane Composites; Design and Experiment of T-Shape Glass Micro-Nozzle for Preparation of Microcapsules; Morphology Controllable Preparation of Gold Nanoplates through an Eco-Friendly Wet-Chemical Route; Research on the Conductive Property of CNT Nanopaper Facilitates the Actuation in Shape Memory Polymer Composites  
The Crystallization Research on the Zr-Based Bulk Metallic Glasses by Ion Thinning  
Influence of Temperature on the Preparation of GaN Nanowires; The Effects of Discharge Parameters on the Surface Morphology of Nickel Microspheres by EDM Combined with Ultrasonic Field; The Preparation of Porous TiO<sub>2</sub> Nanostructure by Triblock Copolymers Co-Templating Method of TiOSO<sub>4</sub> Solution Derived from Ilmenite Ore; Catalytic Degradation of Phenol by -Fe<sub>2</sub>O<sub>3</sub> Nanoparticles; Size-Dependence of Photoluminescence Property of ZnO Nanoparticles  
Controlling the Size and Dispersion of ZnO@SiO<sub>2</sub> Core-Shell Nanostructure by Addition of Triblock Copolymer Surfactant and pH Adjustment during Precipitation and Encapsulation Process

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Sommario/riassunto

Collection of selected, peer reviewed papers from the 2013 4<sup>th</sup> International Conference on Advances in Materials and Manufacturing (ICAMMP 2013), 18-19 December, 2013, Kunming, China. The 268 papers are grouped as follows: Chapter 1: Composites, Chapter 2: Micro/Nano Materials, Chapter 3: Steel/Iron, Chapter 4: Ceramics, Chapter 5: Metal Alloy Material, Chapter 6: Optical / Electrical / Magnetic Materials, Chapter 7: Energy Materials, Chapter 8: Biomaterials and Technology, Chapter 9: Chemical Materials, Chapter 10: Film Material, Chapter 11: Building Materials, Chapter 12: Materials Mechanic

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