

1. Record Nr.	UNINA9910823074303321
Titolo	Advanced research on material engineering, chemistry, bioinformatics II : selected, peer reviewed papers from the 2012 2nd International Conference on Material Engineering, Chemistry, Bioinformatics (MECB 2012), July 14-15, Xi'an, China / / edited by Helen Zhang and David Jin
Pubbl/distr/stampa	Durnten-Zurich : , : Trans Tech, , [2012] ©2012
ISBN	3-03813-848-7
Descrizione fisica	1 online resource (671 p.)
Collana	Advanced materials research, , 1022-6680 ; ; volume 531
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Disciplina	620.11
Soggetti	Materials science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Advanced Research on Material Engineering, Chemistry, Bioinformatics II; Preface and Organizing Committee; Table of Contents; Chapter 1: Material Engineering and its Application Technology; Microstructure and Mechanical Properties of Cr <sub>1-x</sub> Al <sub>x</sub> N Coating; Experimental Study on Fluidization Characteristics of Gas Quenching Steel Slag; Preparation and Characterization of Sandwich Structure Purification Material via Gas-Jet/Electrospinning Technique; Experimental Investigation on Thermal Physical Properties of an Advanced Ferromagnetic Base Composite Material Microstructure and Oxidation Resistance of Cr <sub>1-x</sub> Al <sub>x</sub> N Coating Influence of Ar Pressure on the Structure and Electrical Properties of TiO <sub>2</sub> Nanofilm Materials; Photoconductive Properties of MEH-PPV/InP Nanocomposite Diode; Ag-Loaded Polypyrrole/Carbon Nanotube: One-Step In Situ Polymerization and Improved Capacitance; Study on the Preparation of Chitosan/Sodium Alginate Copolymer; New Progress on Lead Selenide Nanostructures: Synthesis and Properties; Effect of Rare Earth on the Inclusions and Pitting Resistance of Ferrite Stainless Steel Study of Initial Corrosion Behaviors of Pure Copper under Simulated Marine Atmosphere Effect of Electron Beam Injection on the Removal of

Metal Impurities in Silicon; Studies on Photodegradation Kinetics of Rhodamine B by Titanium Dioxide - Carbon Composite Materials; The Synthesis and Properties of Cadmium Selenide Nanostructures; Ribbon Silicon Material for Solar Cells; Fabrication of Ferromagnetic Ge Quantum Dots Material; Improvement of Japanese JAC Wafer Acid Etcher; The Synthesis of a Novel Plasticizer and its Application in Polymer Electrolytes

The Characterization of Porous Structure of Frozen Wool Keratin Membrane Fast Setting Calcium Phosphate-Chitosan Composites for Bone Substitute Materials; Investigation of the Microstructure, Optical and Electrical Properties of In-Ga-Zn Oxide Thin Film Using the Sol-Gel Method; Experimental Study on the Influence of Temperature on Surface Characteristics of Alkaline Residue; A Kind New Materials ColorPro of Simplified the Coating Process; Preparation and Photoelectric Properties of High-Directional Al-Doped Zinc Oxide Nanorod Arrays

Study on Inverse Ultrasonic Modeling for Complex Type Flaw in Homogeneous Material Preparation and Photocatalytic Properties of Loading Nano-TiO<sub>2</sub> Modified PHBV Film by Solution Casting; Preparation of ZnCo<sub>2</sub>O<sub>4</sub> Micro-Materials via a Solvothermal Route; Synthesis and Crystal Structure of [(-Biphenyl-3,3'-Dicarboxylato) Manganese(II)]; The Explore of Wood Residues Railway Sleeper Composite Aging Properties; Research on Discretely Tunable Nd:YAG Ceramic Material; Study on the Performance of Photoinduced Orientation in Side-Chain Liquid Crystal Polymer Containing Chalcone Group

A Brief Study on the Problems and Promotion of Chinese Steel Industry and Building Materials

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#### Sommario/riassunto

In these proceedings are to be found many original ideas and new viewpoints in the fields of Material Engineering, Chemistry and Bioinformatics. The contents reflect the good opportunity which was offered to researchers to exchange their innovative ideas and new perspectives. These proceedings will certainly provide invaluable guidance to scientists, physicists, chemists, teachers and others all over the world. Review from Book News Inc. The 152 papers in this collection were presented during the Second International Conference on Material Engineering, Chemistry, and Bioinformatics held in Xi'

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