

1. Record Nr.	UNINA9910786284903321
Titolo	Advanced research on material science and environmental science : selected, peer reviewed papers from the 2012 2nd International Conference on Material Science, Environmental Science and Computer Science (MSESCS 2012), August 25-26, 2012, Wuhan, China // edited by Helen Zhang, David Jin, and X.J. Zhao
Pubbl/distr/stampa	Durnten-Zurich, Switzerland : , : Trans Tech Publications, , [2012] ©2012
ISBN	3-03813-859-2
Descrizione fisica	1 online resource (363 p.)
Collana	Advanced materials research, , 1022-6680 ; ; volume 534
Altri autori (Persone)	ZhangHelen JinDavid ZhaoX. J
Disciplina	620.11
Soggetti	Materials science - Research Materials science Environmental sciences
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 Science and Environmental Science; Preface and Committee; Table of Contents; Chapter 1: Material Engineering and its Application Technology; Preparation of Silicone-Modified Polyester Resin for Colored Steel Sheet; Preparation and Characterization of Novel Hollow Fiber Membrane with Multicomponent Polymeric Materials; Numerical Simulation of Die Casting for Semi-Solid Aluminum Alloy and its Mould Research; Study on the Frontal Polymerization of Polyurethane/Hollow Glass Microsphere Hybrid Material Surface Plasmon Propagation in Gold Stripes and the Effect of Incident Light Polarization on PropagatingEffect of CMCS on the Thermal Stability of Natural Rubber; Hydroxyapatite Whisker Effect on Strength of Calcium Phosphate Bone Cement; The Appropriate Chemical Admixture for Alkali-Activated Cementitious Material; Research on a Neotype of Silica Sphere Filler; Optical Interaction in a Plasmonic

Metallic Nanoparticle Chain Coupled to a Metallic Film; 600MPa Grade TMCP Steel with Low Yield Ratio and Excellent Weldability; Study on Rheology of UHMWPAN /MMWPAN/DMSO Solution  
The Optimization of Synthesis Condition of ZnSe  
Nanocrystals Application of Power Ultrasound in Coal Seam Water Infusion; Optimization Study on Frame Material of Mini Wind Generator Base on FEM Stress Analysis; Research of Novel Functional Stealthy Nanomaterials; One-Step Synthesis and Antibacterial Properties of Polyaniline/TiO<sub>2</sub> Nanocomposites; Electrochemical Synthesis of Polyaniline and its Anticorrosion Performance for X70 Steel; Preparation of Fibrous CaO Sorbent by Hydrothermal Method; Process on Inorganic Nanomaterial Synthesis by Microwave-Hydrothermal Methods  
Microstructure and Mechanical Properties of Ti<sub>1-x</sub>Al<sub>x</sub>N Thin Films Study on Oxidation Resistance of Ti<sub>1-x</sub>Al<sub>x</sub>N Coating; Pore Structure Characterization of TiO<sub>2</sub>-SiO<sub>2</sub> Composite Aerogel Prepared via Ambient Pressure Drying by Sol Pre-Modification Process; Preparation and Characterization of Silica Aerogels/Glass Wool Composites; Preparation of Forsterite by Solid State Synthesis Process and its Dielectric Properties; Application of Wavelet Analysis Technique in the Life Sign Detection below Solid Material  
Synthesis of Perylene-Containing Polyimides for Non-Covalent Functionalization of Graphene by Self-Assembly Synthesis and Thermotropic Liquid Crystallinity of Alkylammonium Salts Containing Azobenzene Mesogens; Study on the Adsorption Behavior of Chrome and Manganese on Potassium Tetratitanate Whisker; Synthesis and Luminescence Characteristics of Zn (II) Complexes with 2'-Hydroxyacetophenone-Furan-2-Carbohydrazine; Photocatalytic Activity of Pd Doped Tin Dioxide Inverse Opal Films; Steam Reforming of Acetic Acid for Hydrogen Production: Thermodynamic Calculations  
The Research of Diluents Added to HZSM-5 on the Methanol to Gasoline Reaction

---

Sommario/riassunto

These proceedings concentrate on Materials Science and Environmental Science and contain extensive new knowledge, concerning materials science and environmental science, from researchers all over the world. The papers are divided into: Materials Engineering and its Application to Technology; and Environmental Materials and Advanced Biochemical Techniques. Review from Book News Inc.: Contributed by researchers from the materials and environmental science fields in China, the 74 papers in this volume are drawn from the Second International Conference on Material Science, Environmental Science and

---