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Collana	Advanced Materials Research, , 1662-8985 ; ; Volume 893
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Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Advanced Materials and Engineering Materials III; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Materials Science; Synthesis, Crystal Structure and Antibacterial Activity of 4-Hydroxy-Benzaldehyde Benzoyl Hydrazone; Study on Scale Inhibition Performance of Modified Polyaspartic Acid; Artificial Ceramic Metamaterial with Meshed Grid Structure for Radome Application; Theoretical Study on Adsorption and Doping of Pd Atom on Graphene; Research on the Adsorption Law of the Titanium Dioxide Photocatalyst to the Dye Catalysis Investigation of PET Depolymerization with Brønsted Acidic Ionic Liquid under Microwave Irradiation Synthesis of Poly(vinyl alcohol) /Chitosan/Silicon Oxide Beads Untreated and Glutaraldehyde Treated; Cr, Fe - Doped Anatase TiO ₂ Photocatalyst: DFT+U Investigation on Band Gap; First Principle Study of Hydrazine and OH ⁻ Co-Adsorption on Ni(111) in High Coverage System; Morphology-Driven Stark Shift Switching in Ge/Si Type-II Heterointerfaces; Laser-Induced Copper Deposition from Solution: Removing the Thermodynamic Restrictions; The Research on Re-Design of Ceramic Products Synthesis and Characterization of Hydroxyapatite Powder from Natural Gypsum Rock Study on the Electrochemical Performance of High Tap Density LiFePO ₄ /C Synthesized by Spray-Drying; The Effect of

Annealing Heat Treatment on the Microstructure and Macroscopic Properties of Kinetic-Sprayed Ta Coating Layer; Preparation and Structural Characterization of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ Doped with Nickel, Ferrite, Manganese and Cobalt; Thermal Class Evaluation of Glass Net Used for Transformer; Molecular Dynamics Simulation of Void Structures in Vitreous Silica

A Geometry Method for Calculating the Fiber Diameter Reduction in Melt Blowing

A Novel Charged Iridium (III) Complex for Amine Sensor Application; Effect of Reduction Process Parameter in Direct Reduction

Process of Laterite to Produce Substitute Pig Iron for Thin Wall Ductile

Iron Material; A Study on Application of Surfactants in Cemented

Carbides Ball Milling; Novel Approach to Studying Local Electrochemical

Processes Inside Cavities; Application of New Photonic Materials in

Development of Psychological Disease Intervention Perspective &

Diagnosis

Application of Green & Environmentally Friendly Materials in Traditional

Art Education

Chapter 2: Nanomaterials and Nanotechnologies;

Ultrasonic-Assisted Electroless Plating of Silver Nanoparticles on

Carbon Nanotubes; Disc-Electrospun Nano/Macro-Scale PCL Fibers

with Nanoporous Structure; Synthesis and Characterization of Porous

ZnO -CNT Nanocomposites Prepared by Microwave Plasma Jet Chemical

Vapor Deposition System; Preparation and Characterization of

Polypropylene/MMT Nanocomposites; Effect of NaOH Concentration

and the Addition of NiCl_2 on the Preparation of Ni/NiO/C Composite

Nanofibers

Application of Smart Nanomaterials in Rheumatism Drug Delivery

Systems

Sommario/riassunto

Collection of Selected, Peer Reviewed Papers from the 2013 3rd International Conference on Advanced Materials and Engineering Materials 2013 (3rd ICAMEM 2013), December 14-15, 2013, Singapore.

The 173 papers are grouped as follows: Chapter 1: Materials Science,

Chapter 2: Nanomaterials and Nanotechnologies, Chapter 3: Polymers

and Composites, Chapter 4: Metals and Alloys, Chapter 5: Biomaterials,

Chapter 6: Thin Film and DLC Coating, Chapter 7: Building and Road

Materials, Chapter 8: Manufacturing Technology and Processing,

Chapter 9: Structural Materials and Systems, Chapter 10: Materials App
