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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Material Research and Applications; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Materials Science and Engineering; Synthesis and Application of a Novel Liquid Crystal Monomer 1,4-di-[4-(3-acryloyloxyhexyloxy)benzoyloxy]-2-methyl Benzene; Carrier Hopping and Relaxation in InAs/GaAs Quantum Dot Heterostructures; Morphological and Magnetic Properties of Electrodeposited Ni-Ag Alloy Nanowire Arrays in Modified AAO Template; Durian Peeling Extract Mediated Green Synthesis of Silver Nanoparticles; Fluorescence and Judd-Ofelt Analysis of Er <sup>3+</sup> Doped CaF <sub>2</sub> Transparent Ceramic Preparation and Characterization of Nitrogen Doped TiO <sub>2</sub> Nanoparticles as an Effective Catalyst in Photodegradation of Phenol under Visible LightCu-Fe/TiO <sub>2</sub> Photocatalyst for Deep Desulfurization Process; Removal of Alkali in the Red Mud Using CO <sub>2</sub> at Ambient Conditions; Preparation and Application of Polyacrylamide-Grafted Starch Flocculant; Characterization of Nanocrystalline Titania Thin Film Deposited by Spray Pyrolysis Technique; Long Lasting Phosphorescence in Mn <sup>2+</sup> -Activated ZnO-B <sub>2</sub> O <sub>3</sub> Glass Surface Modification of Natural Rubber Film with PMMA Nanoparticles Stabilized by Chitosan or its DerivativeInvestigation of Mechanical Properties of Nanostructured Titanium Processed by Warm ECAP Followed Cold Rolling; Experimental Test for Evaluation of SCC Static Segregation; Performance of TiO <sub>2</sub> Nanoparticles Synthesized at pH 2 as

Photoelectrode in Dye Solar Cell; Formaldehyde Detection Based on P3HT/InSnO Composite Thin Film Transistor; Polysaccharide-Based Film of Cassia fistula and its Antibacterial Activity  
The Preparation and Apply of Ni-W-P Alloy Coating for Electricity-Control Equipment  
Agglomeration of FePO<sub>4</sub> Prepared by Continuous Reaction Precipitation; Preparation and Characterization of Bisphenol a Polycarbonate Facilitated by Supercritical Impinging Stream; Phase Composition of Starch-Gelatin Blends Studied by FTIR; Study of Concrete Composite with Participation of Waste from Sewage Plants; The Application of Soy Biodiesel in Bituminous Priming of Soil-Aggregate Layers of Low Traffic Volume Roads in the State of Ceara, Brazil  
The Optical Properties and the Structure of CuInS<sub>2</sub> Thin Films Deposited by Oblique Angle Deposition Technique  
Effect of Fluorine-Containing Surfactant on Fluorinated Acrylate Emulsion Polymerization and the Properties of the Latex Film; Mechanical and Microstructure Characterization of A356 (Al/SiC) MMC; Preparation and Properties of Rectorite/Epoxy Nanocomposites; Preparation and Characterization of Unsaturated Polyester/Organic Montmorillonite Nanocomposites; Preparation of Magnetic Polymer ICF Pellet by the Electroless Plating  
Preparation of PPX Based Functional Tube and its Dielectric Property

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Sommario/riassunto

Collection of selected, peer reviewed papers from the 2012 International Conference on Advanced Material and Manufacturing Science (ICAMMS 2012), December 20-21, 2012, Beijing, China. The 410 papers are grouped as follows: Chapter 1: Materials Science and Engineering; Chapter 2: Nanomaterials and Nanostructures; Chapter 3: Materials Properties, Measuring Methods and Applications; Chapter 4: Methodology of Manufacturing Analysis and Modelling; Chapter 5: Materials Manufacturing and Processing; Chapter 6: Energy Research, Energy Materials and Manufacturing; Chapter 7: Applied Mechanics, Machiner

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