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Titolo	Advancement of materials and nanotechnology III : selected, peer reviewed papers from the 3 rd International Conference on the Advancement of Materials and Nanotechnology 2013 (ICAMN III 2013), November 19-21, 2013, Penang / / edited by Kuan Yew Cheong, [and five others]
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Collana	Advanced Materials Research, , 1662-8985 ; ; Volume 1024
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Soggetti	Nanostructured materials Nanotechnology Materials Electronic books.
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	Advancement of Materials and Nanotechnology III; Preface and Committees; Table of Contents; Chapter 1: Nanomaterial Research and Application; Design and Synthesis Silica-Polyelectrolyte-Iron Oxide Nanocomposite with Magnetic-Catalytic Bifunctionalities for Dye Removal; Effect of Calcination Temperature on the Morphological and Phase Structure of Hydrothermally Synthesized Copper Ion Doped TiO ₂ Nanotubes; Nanoclay for Micropollutant Removal in Wastewater-Effective Alternative?; S-Parameters of Bismuth Iron Garnet (BIG) Filled Polyvinylidene Fluoride Composite Using Rectangular Waveguide Method Controlled Growth of ZnO Nanoparticles with Different Morphologies Using Sol-Gel TechniqueImproving the Production of Self-Assembled ZnS:Mn Nanocrystals through the Modification of Sol Gel - Spin Coating Approaches; Fabrication of Anodic Alumina Templates on Ti/Si Substrate and Preparation of Cu Nanorods by Electrochemical Process; P-Incorporated TiO ₂ Nanotube Arrays by Wet Impregnation Method for

Efficient Photocatalytic Activity; Carbon Dioxide Capture at Various Temperatures Using Ca(OH)2 Sorbent Fabricated by Sol-Gel Route in Ethanol Media

Fe-TiO2 Nanoparticles by Hydrothermal Treatment with Photocatalytic Activity EnhancementFormation of Platinum Nanodendrites Embedded Organic Insulator for Memory Application; Simulation and Fabrication of Silicon Field Emission Cathodes for Cold Electron Sources; Synthesis and Characterization of Zn-Al Layered Double Hydroxide (LDH) Nanocomposite Intercalated with Sodium Dodecyl Sulfate (SDS); The Effect of Zinc Oxide and Aluminum Oxide Nanoparticles on Interfacial Tension and Viscosity of Nanofluids for Enhanced Oil Recovery Effect of Metal Catalysts Type and Annealing Time on the Growth of Zinc Oxide Nanostructures by Thermal Vapor Deposition MethodEffect of Oxygen Flow Rate on the Memristive Behavior of Reactively Sputtered TiO2 Thin Films; Synthesis of CdSe Nanoparticles: Control of Reaction Temperature; The Effect of Hydrothermal Reaction Time on Formation of AuNPs by Sacrificial Templated Growth Hydrothermal Approach; Characterization of ITO/Ag and ITO/Ni Bi-Layer Transparent Conductive Electrodes; Fabrication of Gold Nanoparticles on Multiwalled Carbon Nanotubes Nanohybrids Microwave Synthesis of ZnO Nanoparticles for Enhanced Oil RecoverySynthesizing Vertically Aligned Zinc Oxide Nanowires on Borosilicate Glass Using Vapor Trapping Approach; Preparation of WO3 Nanorods by Seeded Growth Hydrothermal Reaction; Formation and Characterization of TiO2 Scattering Layer Deposited by Spray Pyrolysis for DSSC; Effect of Applied Voltage on the Formation of Self-Organized Iron Oxide Nanoporous Film in Organic Electrolyte via Anodic Oxidation Process and their Photocurrent Performance Electrolyte Influence on the Morphologies of Anodic ZrO2 Nanotube Arrays Formed by Anodization

Sommario/riassunto

Collection of selected, peer reviewed papers from the 3rd International Conference on the Advancement of Materials and Nanotechnology 2013 (ICAMN III 2013), November 19-21, 2013, Penang. The 94 papers are grouped as follows: Chapter 1: Nanomaterial Research and Application, Chapter 2: Polymer Materials and Composites, Chapter 3: Functional and Structural Materials, Material Processing Technologies, Chapter 4: Micro/Nano Materials for Bio/Medical Application, Chapter 5: Materials and Technologies for Electric and Electronic Application Temporary description, more details to follow.
