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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	Micro/Nano Science and Engineering; Preface; Table of Contents; Chapter 1: Micro/Nano Materials and Technologies; Behavior of Ferro-Cement Slabs Modified by Polymer under Low Velocity Impact; Effects of Process Variables on Size of Chitosan-Alginate Capsules through Extrusion-Dripping Method; Nanocomposites of Multi-Walled Carbon Nanotubes with TiO ₂ for High Photocatalytic Activity; Synthesis and Characterization of Polysulfone/Montmorillonite (PSF/MMT) Mixed Matrix Membrane for Gas Separation; Synthesis of MCM-41 from Rice Husk Ash and its Utilization for Lipase Immobilization Fresh State Behaviour of Cement Paste Containing Nano KaolinEnhanced Photoconductivity and Antibacterial Response of Rubber-Grade ZnO upon UVA Illumination; Nanoclustered Gold: A Promising Green Catalysts for the Oxidation of Alkyl Substituted Benzenes; Critical Surface Tension of Cholesteryl Ester Liquid Crystal; Photoconductive Carbon Nanotube (CNT): A Potential Candidate for Future Renewable Energy; Zeolite Supported Ionic Liquid Catalyst for the Synthesis of Nano-Cellulose from Palm Tree Biomass Green Catalytic Approach for the Synthesis of Functionalized Nanocellulose from Palm Tree BiomassGreen Catalytic Approach for the

Synthesis of Platform Chemicals from Palm Tree Lignin; Catalytic Pretreatments of Palm Tree Biomass for the Extraction of Lignin, Cellulose and Hemicelluloses; Behavior of Acrylic Polymer Addition on the Permeability of the Anbar Soils; Chemical and Thermal Stability of Multiple Ions Doped Non-Stoichiometric Nanoapatite Heat-Treated in CO₂ and Air Atmospheres
 Effect of Methyl Cellulose on Apatite Formation of a Sol-Gel Derived Bioactive Glass/Titania Nanostructure Composite
 Reactive Ion Etching Parameter Effect on Aluminum Bond Pad Surface Morphology; Effect of High Temperature during Electroless Nickel Process; Surface Roughness Influence on O₂ and Ar RIE Gas Treated Aluminum Surface; Chemical Bath Temperature Investigation for Electroless Nickel Immersion Gold; Wettability and Surface Roughness Study on RIE Treated Aluminium Deposited Surface; Removal of Benzene from Aqueous Solution Using Carbon Nanotube Synthesized from Fuel Oil Waste
 Synthesis and Characterization of Zinc Oxide Nanostructures by Different Sonication Period
 The Effects of Process Parameters on the Pyrolysis of Empty Fruit Bunch (EFB) Using a Fixed-Bed Reactor; Effect of Metal Catalyst Morphology on the Growth of Zinc Oxide Nanostructure by Thermal Vapor Deposition Method; Effect of Post-Deposition Annealing Process on the Resistive Switching Behaviour of TiO₂ Thin Films by Sol-Gel Method; Highly Active Mesoporous Carbon Nitride for Removal of Aromatic Organic Pollutants under Visible Light Irradiation
 Adsorption of Aniline Using Novel Mesoporous Carbon Nitride

Sommario/riassunto

Collection of selected, peer reviewed papers from the Joint International Conference on Nanoscience, Engineering and Management (BOND21), August 19-21, 2013, Penang, Malaysia. The 139 papers are grouped as follows: Chapter 1: Micro/Nano Materials and Technologies, Chapter 2: Micro/Nano Science and Engineering, Chapter 3: Environmental Application
