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Collana	Advanced Materials Research, , 1662-8985 ; ; Volume 1043
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Engineering and Innovative Materials III; Preface and Committees; Table of Contents; Chapter 1: Structure and Properties of Materials; Nano-Yttrium Aluminium Garnet Interfacial Tension and Viscosity for Enhanced Oil Recovery; A Study of LiMn(2-X)FexO4 Cathodic Nano Material for Lithium-Ion Batteries; Effect of Cell Material on the Performance of PV System; The Influence of Carbon Addition on Microstructure and Mechanical Properties of Fe-22.0Al-5.0Ti Alloy; Zinc Oxide Nanostructures Formed by Wet Oxidation of Zn Foil; Effect of CNT Arrays on Electrical and Thermal Conductivity of Epoxy Resins Investigation on Microstructure and Mechanical Properties of Squeeze Cast Al-Si Alloys by Numerical Simulation FTIR and Electrical Studies of Hexanoyl Chitosan-Based Nanocomposite Polymer Electrolytes; In 2O3-Based Thin Films Deposited by Spray Pyrolysis as Promising Thermoelectric Material; Solid Particle Erosion Behaviour of Martensitic and Nitrogen Alloyed Austenitic Stainless Steel; Porous GaN for Gas Sensing Application; Diode Parameters of Heterojunctions Comprising p-Type Si Substrate and n-Type -FeSi2 Thin Films Chapter 2: Research and Development of Technologies of Synthesis and Processing of Materials Optimization of Multi-Pass Pocket Milling

Parameter Using Ant Colony Optimization; Investigation of Carbon Nanofiber Supported Iron Catalyst Preparation by Deposition Precipitation; Hydrophobic-Synthesis of Bio-Based Epoxy Substrate Using Methyl Ester and its Dust Deposition and Decontamination Effects; Synthesis and Characterization of Octaethoxycalix[4]Arene for Heavy Metal Cations Adsorbent; Recycling of Pre-Fabricated Carbon-Fiber Waste as Filler for Sandwich Glass-Fiber Auto Parts Prediction of Friction Stir Processed AZ31 Magnesium Alloy Micro-Hardness Using Artificial Neural Networks Fabrication of ZnO Nanorod for Room Temperature NO Gas Sensor; Synthesis of Co/CNTs via Strong Electrostatic Adsorption: Effect of Metal Loading; Water Dispersion Conductive Polypyrrole Based on Nanocrystalline Cellulose; Electroless Deposition of Silver Nanoparticles and Nanowires in Ethylene Glycol; Electroless Deposition of Copper Nanostructures in Aqueous Solution; Finite Element Study of Deformation Behaviour of Al-6063 Alloy Developed by Equal Channel Angular Extrusion Electrochemical Characteristics of an Optimized Ni-P-Zn Electroless Composite Coating Synthesis of C-2-Ethoxycarbonylmethoxyphenyl Calix[4]Resorcinarene Using Salicylaldehyde as Basic Material and its Application as Adsorbent of Pb(II) Metal Cation; Simulating of Backward Extrusion Process of Nanostructured Al-6082 Material; Glass Ceramization as an Alternative Production Route of Forsterite Glass-Ceramics for Possible Multipurpose Uses; Relative Effect of Sand Blasting and Acid Etching on the Surface Roughness of Pure Titanium and Titanium Alloy for Dental Implants The Breakdown of Carbide Network in a H23 Tool Steel by Hot Axisymmetric Compression

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 3rd International Conference on Engineering and Innovative Materials (ICEIM 2014), September 4-5, 2014, Kuala Lumpur, Malaysia. The 54 papers are grouped as follows: Chapter 1: Structure and Properties of Materials; Chapter 2: Research and Development of Technologies of Synthesis and Processing of Materials; Chapter 3: Environmental Chemistry and Practice of Using the Nature Materials; Chapter 4: Machinery in Area of Manufacturing and Processing of Materials, Construction Technologies and Materials
