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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Advances in Applied Materials and Electronics Engineering III; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Nanoscience and Nanotechnology; Synthesis and Characterization of Antimony-Doped Zinc Oxide Nanostructures via Microwave-Assisted Process; Preparation of Light Guide Plates with Micro-Patterned Functional Resin Layers by Using UV Nano-Imprint Process; Enhanced Cr(VI) Removal from Landfill Leachates Using Nanoscale Zero-Valent Iron; Fabrication of Aligned PAN Nanofiber by Electrospinning with Parallel Electrode Nanoparticles-Induced Phase Transitions in A(BC) <sub>3</sub> Miktoarm Star Copolymers Preparation of Folate-Decorated Hydroxycamptothecin Nanoparticle Lyophilized Powder and its Antitumor Activity on Mice Bearing S180; The Influence of Oblique Deposited Angle on Metal Enhanced Fluorescence Property of Ag and Ag/ZnO Core-Shell Structure; A Study of Nanomaterial Applications in Architectural Coating for Energy Saving; Morphology and Mechanical Property of Epoxy-Clay Nanocomposites Prepared by Ultrasonication; The Effect of Nanostructuring on Physical and Mechanical Properties of Metallic Materials

In Vitro Evaluation of Candida albicans Biofilm Formation on Denture Base PMMA Resin Incorporated with Silver Nanoparticles and its Effect on Flexural Strength; In Situ Growth of Mesoporous NiO Nanoplates on Graphene Matrix as Anode Material for Lithium-Ion Batteries; Preparation of Graphene/Fe<sub>3</sub>O<sub>4</sub>/Polypyrrole Nanocomposite and its Adsorption for Cr(VI) Ions; Nanomaterials Ontology Model; Chapter 2: Materials Science and Processing; Microwave Irradiation of Candidal Adhesion and Biofilm on Polymethylmethacrylate Resin; A Study on the Optical and Electrical Properties of GZO/Pt/GZO Multilayered Transparent Electrodes for Photonic Applications; Effects of UV Irradiation on the Molecular Structure and Tensile Properties of Nucleated Polypropylene; In Situ Observations of Stresses in Al Interconnect Line by Synchrotron Radiation under Thermal/Electrical Conditions; Mesozoic Tectonomagmatic Evolution and Gold Metallogeny in Jiaodong Area, East China; Neural Network Model for Predicting Anticancer Activity of Pyridopyrimidines Derivatives; Preparation and Structure of BiVO<sub>4</sub>-Graphene Composites; Shear Horizontal Waves in Orthotropic Layer/Piezoelectric Cylinder Structures; Solidification Behavior of Lined Al<sub>2</sub>O<sub>3</sub>-ZrO<sub>2</sub> Multiphase Ceramics in SHS Composite Pipes; Surface Modification of Magnesium-Lithium Alloy; Synthesis of an In Situ Aluminum Matrix Composite Fabricated by Al-Cr<sub>2</sub>O<sub>3</sub> System; The High Temperature Oxidation Behavior of Hot-Dipping Al Coating on 0Cr18Ni10Ti Stainless Steel; The Influence of Chemical Compounds on the Sulfur K-Edge X-Ray Absorption near Edge Spectrum of the Vulcanized Rubber; Research of Fluxless Soldering of High-Purity Aluminium with Solders Type Zn-Al; Differences of Fire Resistance According to Boundary Conditions of Submarine Structural Steels

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Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 3rd International Conference on Applied Materials and Electronics Engineering (AMEE 2014), April 26-27, 2014, Hong Kong, China. The 161 papers are grouped as follows: Chapter 1: Nanoscience and Nanotechnology, Chapter 2: Materials Science and Processing, Chapter 3: Building and Construction: Materials, Planning and Design, Chapter 4: Environmental Research, Chapter 5: Power and Electronic Engineering, Chapter 6: Control Systems and Engineering, Chapter 7: Monitoring and Data Processing, Chapter 8: Communications and Networking, Chapter

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