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Titolo	Advances in applied materials and electronics engineering III : 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 / / edited by Brendan Gan, Y. Gan and Y. Yu
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Collana	Advanced Materials Research, , 1662-8985 ; ; Volume 905
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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)3 Miktoarm Star CopolymersPreparation 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 Metallogenesis 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; Surficial 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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