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| Titolo                  | Science and materials engineering IV : selected, peer reviewed papers from the Fourth National Congress of Science and Materials Engineering (CNCIM 2013), February 22-28, 2013, Pachuca, Mexico / / edited by Jesus Garcia-Serrano [and three others]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Soggetti                | Materials science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| Nota di bibliografia    | Includes bibliographical references at the end of each chapters and indexes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Nota di contenuto       | Science and Materials Engineering IV; Preface, Committee, Organizers and Sponsors; Table of Contents; Chapter 1: Synthesis, Obtaining and Materials Modification; Synthesis of New Hexakis-Heterocyclic Compounds and their Use in the Formation and Stabilization of Au and Ag Nanoparticles; Corrosion Resistance of Hot Dip Aluminized Copper Alloys; Effect of Mechanical Vibration during the Solidification Process of an Aluminium Alloy A356; Immobilization of SA--2,6-Gal Receptors Related to Influenza on Magnetic Nanoparticles Coated with Chitosan<br>Physical Properties of Thin Films of GaAs and Al <sub>x</sub> Ga <sub>1-x</sub> As Grown by Solid-Arsenic-Based MOCVD<br>Solid Solutions Study of BaTiO <sub>3</sub> Doped on B Site by Electronic Compensation; Structural and Textural Study of Highly Porous Carbon Nanospheres; Study of the Effect of Synthesis Method on Obtaining Ca <sub>0.3</sub> La <sub>0.7</sub> MnO <sub>3</sub> ; Synthesis and Characterization of Azobenzene-Containing Polydiacetylene Polymers; Synthesis and Characterization of CdSe Nanoparticles with Cadmium Precursor Variation in Colloidal Synthesis<br>Synthesis and Evaluation of Bifunctional Monomers Derived from Post-Industrial PET as Crosslinking Agents for Acrylic Monomers<br>Synthesis and Mechanosynthesis of N, N'-bis (thylthyenil)-2,3-butanediimine |

with Corrosion Inhibitor Properties; Synthesis Method for Obtaining Anode-Supported Tubular Solid Oxide Fuel Cells by Slip Casting; Synthesis, Characterization and Mesomorphic Properties of N,N'-(1,4-Phenylene(methanylylidene))bis(4-(hexyloxy)aniline); Synthesis, Characterization and Optoelectronic Properties of Oligo(p-Phenylvinylidenequinolines) with Different Substituents Thermodynamic Study of Leached Metals (Cu, Zn and Ni) from Waste Printed Circuits by Electrochemical Method Chapter 2: Materials Characterization; Analysis of Hardness, Resistivity and Corrosion of HfN Thin Films Fabricated by D.C. Sputtering; Biocompatibility Evaluation of Co-Ribbons Prepared by Melt-Spinning; Chemical Conditions for ZnS Thin Films Preparation by Chemical Bath Deposition; Corrosion Resistance on the Interlayer of AISI 316L/AISI 304 Stainless Steels Joined with an Iron Based Metallic Glass Ribbon at 1000 °C by Induction Heating  
Dissolution of Iron from Oxides in a Solution of Citric Acid and Sodium Thiosulfate Ductile Powders Mechanically Alloyed in an Effective Way; Effect of Substrate Temperature on the Properties of Hafnium Nitride Films Prepared by DC Sputtering; Electrical Characterization of Interface Defects in MOS Structures Containing Silicon Nanoclusters; Electrical Properties of Porous Carbon Powders Synthesized by Nanocasting of Aniline in Mesoporous Silica; Electrochemical Synthesis of Palladium Nanoparticles on HOPG Electrode  
Influence of the Temperature on the Diffusion Coefficient Value during the Cobalt Electrodeposition on Different Substrates

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#### Sommario/riassunto

Collection of selected, peer reviewed papers from the Fourth National Congress of Science and Materials Engineering (CNCIM 2013), February 22-28, 2013, Pachuca, Mexico. The 49 papers are grouped as follows: Chapter 1: Synthesis, Obtaining and Materials Modification, Chapter 2: Materials Characterization, Chapter 3: Materials Applications, Chapter 4: New Materials Development and Simulation Materials The 49 papers, selected from nearly 300 presentations, cover synthesizing, obtaining, and modifying materials; characterizing materials; materials applications; and developing and simulating new mat

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