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| Altri autori (Persone)  | NukeawJiti<br>PecharapaWisanu   |
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| Nota di contenuto       | Advances in Material Science and Technology; Preface; Table of Contents; Zn Nanorod Synthesis via Controlled ZnO Seed Layer by Filtered Pulse Cathodic Vacuum Arc: Luminescence Enhancement; Processing and Characterizations of Bi <sub>2</sub> O <sub>3</sub> /BaTiO <sub>3</sub> Ceramic; Synthesis, Characterization and Dielectric Properties of Mn <sub>(2-x)</sub> Zn <sub>x</sub> P <sub>2</sub> O <sub>7</sub> Ceramics; Thermoelectric Properties of Sn <sup>2+</sup> -Substituted CuFeO <sub>2</sub> Delafossite-Oxide; Magnetoelectric Properties of BaTiO <sub>3</sub> - Co <sub>0.5</sub> Ni <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> Composites Prepared by the Conventional Mixed Oxide Method A Comparative Investigation of a Pentacene Layer on Gold and PMMA in Bottom-Contact Pentacene Thin Film TransistorsModification of Working Electrode of Dye-Sensitized Solar Cell Using TiO <sub>2</sub> Nanoparticles/TiO <sub>2</sub> Nanofibers/CNT Composite; Fabrication of Small Size Inner Spiral Ribbed Copper Tube Using Tube Sinking Method; Environmental Treatment for Perfect Spray Photoresist Morphology and Analysis; Structural, Morphological and Adhesion Properties of Cofeb Thin Films Deposited by DC Magnetron Sputtering; Immobilization of Silk Fibroin as Scaffold for Cell Culture by Plasma Grafting Polymerization |

Impedance Spectroscopy Studies of DCM Doped Alq3 Organic Material  
Sol-gel Combustion Synthesis and Characterizations of Nanocrystalline Zinc, Nickel and Nickel-Zinc Ferrites; Effect of Sputtering Power on Physical Properties and Electrochromic Performance of Sputtered-WO<sub>3</sub> Thin Films; Increasing Plant Flavonoid Biomaterials in Response to UV-A Light; Effect of Substrates on Preparation of Dissolved PMMA in DMF Solution Used as a Dielectric Layer in Optics; Microwave-Assisted Solution Combustion Synthesis and Characterization of Thermoelectric Ca<sub>3</sub>Co<sub>2</sub>O<sub>6</sub> Powders  
Study of Antifungal Activities of CuO/ZnO Nanocomposites Synthesized by Co-precipitation Method  
A Study of Fluorescent Chemosensor for Fe (II) Based On Cyanoacrylic Derivatives; Investigation of a Biodegradable Polymer Electrolytes Based on Carboxy Methylcellulose and its Potential Application in Solid-State Batteries; Preparation and Microstructure of Titania (TiO<sub>2</sub>) Nanotube Arrays by Anodization Method; First-Principles Investigation on Elastic Constants of TiN under High Pressure; Effect of Anodization Process on Morphology of Nickel Coating  
Nanocrystalline Barium Zirconium Titanate Synthesized by the Sonochemical Process  
Preparation and Characterization of Cu-Doped ZnO Sol-Gel Derived Optical Thin Films; Effect of N Incorporation on Growth Behavior of InGaAsN/GaAs/Ge Multi-Layered Structure by MOVPE; Effect of Platinum Substitution on the Microstructures and Dielectric Relaxation of CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub> Ceramics; Studies  
Thermophysical Properties of MgO by First Principle Simulation; Effect of Compounding Methods on Mechanical Properties of Poly(lactic acid) /Starch/Natural Rubber Blends  
Effect of the Fuel Type on the Synthesis of Barium Strontium Titanate by Sol-Gel Combustion Method

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#### Sommario/riassunto

All the papers in this book have been subjected to a peer-review process based on their originality and quality. The topics covered in this book include materials for energy conversion, nanomaterials: synthesis and applications, environmental friendly materials, biomaterials, magnetic materials, electroceramic materials, materials processing, composite materials, functional materials, thin film technology, materials characterization and simulation, and materials technology and devices. Peer reviewed for originality and quality, 57 papers discuss such aspects of material science as immobilizing

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