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Titolo	Nanomaterials : science, technology and applications : selected, peer reviewed papers from the International Conference on Nanomaterials: Science, Technology and Applications (ICNM'13), December 5-7, 2013, Chennai, India // edited by R. Vasanthakumari [and three others]
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Collana	Advanced Materials Research, , 1662-8985 ; ; Volume 938
Disciplina	620.11
Soggetti	Nanostructured materials Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Nanomaterials: Science, Technology and Applications; Preface, Committees and Organizers, Sponsors, Plenary and Keynote Lectures and Invited Lectures; Table of Contents; I. Nano Materials: Synthesis and Characterisation; Synthesis and Characterization of Zn Nanoparticles by Using Hetero-Bicyclic Compound; Hexamine Assisted Hydrothermal Synthesis of Eu <sup>3+</sup> Activated Na <sub>0.5</sub> La <sub>0.5</sub> MoO <sub>4</sub> Microstructures: Synthesis, Structure and Morphological Investigations; Effect of Surfactants on Structural and Dielectric Properties of Cobalt Ferrite; Modified Sol-Gel Production of Nano SDC20 Materials Effect of Heat Treatment on Structural, Magnetic and Electric Properties of Z-Type Barium Cobalt Hexaferrite Powder Kinetics of Silver Nanoparticle Growth Using DMF as Reductant - Effect of Surfactants; Microstructure and Adhesion Properties of a-CN and Ti/a-CN Nanocomposite Thin Films Prepared by Hybrid Ion Beam Deposition Technique; In Situ Synthesis of Copper Phthalocyanine Modified Multiwalled Carbon Tube and its Electrocatalytic Application towards the Oxidation of Nitrite; Study on the Structure and Morphology of CexZr(1-x)O <sub>2</sub> Mixed Oxides Morphological Studies of Electrodeposited Cobalt Based Coatings:

Effect of Alloying Elements Plasma Enhanced Chemical Vapor Deposition Time Effect on Multi-Wall Carbon Nanotube Growth Using C<sub>2</sub>H<sub>2</sub> and H<sub>2</sub> as Precursors; Structural, Electrical and FT-IR Studies of Nano Zn<sub>1-x</sub>Ca<sub>x</sub>O by Solid State Reaction Method; Crystal Structural Studies of ZnO Nanorods and their Band Gaps; Synthesis of Silicon Nanostructures Using DC-Arc Thermal Plasma: Effect of Ambient Hydrogen on Morphology; II. Electrical, Magnetic, Optical Properties of Nanomaterials; Effect of Cobalt Concentration on Bi<sub>0.95</sub>Ba<sub>0.05</sub>Fe<sub>1-x</sub>Co<sub>x</sub>O<sub>3</sub> Synthesis, Magnetic and Surface Properties of Reduced Graphene Oxide Supported Nickel Oxide Hybrid Nanomaterials Study of Electronic and Magnetic Properties of Nitrogen Doped Graphene Oxide; Structural and Optical Properties of Nebulized Nickel Oxide Thin Films; Electrical Conductivity Properties of Nd<sub>2</sub>O<sub>3</sub> Doped LiCl-PbO-ZnO Glass Ceramics; Synthesis of Cu<sub>2</sub>O Nanospheres and Cubes: Their Structural, Optical and Magnetic Properties; Near-Field Scanning Optical Microscopy: Single Channel Imaging of Selected Gold Nanoparticles through Two Photon Induced Photoluminescence Investigation of Optical Properties of ZnO/MnO<sub>2</sub>, ZnO/TiO<sub>2</sub> and ZnO/MnO<sub>2</sub>/TiO<sub>2</sub> Nanocomposites Structural and Magnetic Properties of Ultrafine Magnesium Ferrite Nanoparticles; Structural, Morphological, Optical, and Magnetic Properties of Fe-Doped CuO Nanostructures; Synthesis, Structural and Dielectric Properties of Pure and Ni Substituted Bismuth Ferrite; Synthesis and Characterization of Novel ZnO Nanophosphors; III. Polymers and Nanocomposites; Synthesis of Polythiophene and its Carbonaceous Nanofibers as Electrode Materials for Asymmetric Supercapacitors Studies on Dual Phase Conducting Polyaniline Magnetic Micro and Nanocomposites

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Sommario/riassunto

Collection of selected, peer reviewed papers from the International Conference on Nanomaterials: Science, Technology and Applications (ICNM'13), December 5-7, 2013, Chennai, India. The 54 papers are grouped as follows: I. Nano Materials: Synthesis and Characterisation, II Electrical, Magnetic, Optical Properties of Nanomaterials, III. Polymers and Nanocomposites, IV. Bio Nanomaterials and their Applications, V. Nanomaterials : Energy & Environment, VI. Nanomaterials: Theoretical and Computational Studies

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