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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
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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 ³⁺ Activated Na _{0.5} La _{0.5} MoO ₄ 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 ₂ 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 C₂H₂ and H₂ as Precursors; Structural, Electrical and FT-IR Studies of Nano Zn_{1-x}CaxO 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_{0.95}Ba_{0.05}Fe_{1-x}CoxO₃ 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 Nd₂O₃ Doped LiCl-PbO-ZnO Glass Ceramics; Synthesis of Cu₂O 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/MnO₂, ZnO/TiO₂ and ZnO/MnO₂/TiO₂ 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

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
