1. Record Nr. UNINA9910140883003321

Titolo	Nanostructured materials and nanotechnology IV [[electronic resource]] : a collection of papers presented at the 34th International Conference on Advanced Ceramics and Composites, January 24-29, 2010, Daytona Beach, Florida / / edited by Sanjay Mathur, Suprakas Sinha Ray
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, 2010
ISBN	1-299-18625-4 0-470-94404-8 0-470-94403-X
Descrizione fisica	1 online resource (170 p.)
Collana	Ceramic engineering and science proceedings
Altri autori (Persone)	MathurSanjay RaySuprakas Sinha
Disciplina	620.5
Soggetti	Nanostructured materials Nanotechnology 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 and index.
Nota di contenuto	Hydrothermal Synthesis of Ti02 Nanotubes: Microwave Heating Versus Conventional HeatingFabrication and Properties of Core-Shell Type SiC/Si02 Nanowires through Low-Cost Production Technique; Fabrication and Characterization of Multifunctional ZnO-Polymer Nanocomposites; Hybrid Nanostructured Organic/Inorganic Photovoltaic Cells; Enhanced Photovoltaic Effect Using Nanostructured Multi-Layered Photoelectrode; Evaluation of Nanoparticles as Contrast Agent for Photoacoustic Imaging in Living Cells The Use of CaC03 and Ca3(P04)2 as Supports for Fe-Co Catalysts for Carbon Nanotube Synthesis: A Comparative StudyNano-Microcomposite and Combined Coatings on Ti-Si-N/WC-Co-Cr/Steel and Ti-Si-N/(Cr3C2)75-(NiCr)25 Base: Their Structure and Properties; Phase Composition, Thermal Stability, Physical and Mechanical Properties of Superhard On Base Zr-Ti-Si-N Nanocomposite Coatings; Characterization of Nanocrystalline Surface Layer in Low Carbon Steel Induced by Surface Rapid Multi-Rolling Treatment; Properties of Nano-

Metal Carbide Contained Mg-TiC (SiC) Composites; Author Index

Sommario/riassunto

This issue contains 17 peer-reviewed (invited and contributed) papers covering various aspects and the latest developments related to processing, modeling and manufacturing technologies of nanoscaled materials including inorganic-organic nanocomposites, nanowire-based sensors, new generation photovoltaic cells, self-assembly of nanostructures, functional nanostructures for cell tracking and heterostructures. Each manuscript was peer-reviewed using The American Ceramic Society review process.