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Altri autori (Persone)	MathurSanjay RaySuprakas Sinha
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Nota di contenuto	Nanostructured Materials and Nanotechnology V; Contents; Preface; Introduction; NANOMATERIALS FOR PHOTOCATALYSIS, SOLAR, HYDROGEN, AND THERMOELECTRICS; Morphology Controlled Electrospinning of V2O5 Nanofibers and Their Gas Sensing Behavior; Fabrication of Nanostructured -Fe2O3 Films for Solar-Driven Hydrogen Generation using Hybrid Heating; NANOSTRUCTURED MEMBRANES, THIN FILMS, AND FUNCTIONAL COATINGS; Synthesis and Characterization of Bimetal Decorated Carbon Spheres for Sensing Applications; NANOTUBES AND POLYMER NANOCOMPOSITE TECHNOLOGY Microwave Irradiation of Ruthenium on Nitrogen-Doped Carbon Nanotubes Amine Functionalization of Carbon Nanotubes for the Preparation of CNT Based Polylactide Composites-A Comparative Study;

The Effect of Surface Functionalized Carbon Nanotubes on the Morphology, As Well As Thermal, Thermomechanical, and Crystallization Properties of Polylactide; Structure and Properties Multilayered Micro- and Nanocomposite Coatings of Ti-N-Al/Ti-N/Al₂O₃; Formation of Nanostructured Carbonitride Layers during Implantation of NiTi
Design and Construction of Complex Nanostructured Al₂O₃ Coating for Protective Applications
Microwave Assisted Synthesis and Characterization of Silver/Gold Nanoparticles Loaded Carbon Nanotubes; The Comparison in the Efficiency in Nitrogen Doped Carbon Nanotubes and Undoped Carbon Nanotubes in the Anchoring of Silver Nanoparticles; SYNTHESIS, FUNCTIONALIZATION, AND PROCESSING OF NANOSTRUCTURED MATERIAL; Synthesis of Submicron-Size CaB₆ Powders using Various Boron Sources; Synthesis of Submicron/Nano Sized CaB₆ from Carbon Coated Precursors
An Easy Two-Step Microwave Assisted Synthesis of SnO₂/CNT Hybrids
Grain Size Reduction and Surface Modification Effect in Polycrystalline Y₂O₃ Subject to High Pressure Processing; Synthesis of Nano-Size TiB₂ Powders Using Carbon Coated Precursors; High Temperature Diffraction Study of In-Situ Crystallization of TiO₂ Photocatalysts; Author Index

Sommario/riassunto

A collection of papers from The American Ceramic Society's 35th International Conference on Advanced Ceramics and Composites, held in Daytona Beach, Florida, January 23-28, 2011. This issue includes papers presented in the 5th International Symposium on Nanostructured Materials and Nanotechnology on topics such as Nanotubes, Nanorods, Nanowires and other One-dimensional Structures; Nanostructured Membranes, Thin Films, and Functional Coatings; Synthesis, Functionalization and Processing of Nanostructured Materials; and Advanced Applications.
