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Nota di contenuto	Ceramic Nanomaterials and Nanotechnology II; Contents; Synthesis and Processing of Nanoparticles and Nanostructured Assemblies; Structural and Optical Properties of CdSe Nanoparticles Prepared by Mechanical and Chemical Alloying; Nano-Sized Silicon Nitride Powder Synthesis via Ammonolysis of SiO Vapor; Ambient Condition Synthesis and Characterization of Nanocrystalline BaTiO ₃ ; Ferroelectric Lithography of Multicomponent Nanostructure; Influence of Additives on the Formation of Thin ZnO Films on Self-Assembled Monolayers Fabrication of Metallic Nanocrystal Arrays for Nanoscale Nonlinear Optics Fabrication and Properties of Nanocomposites; Carbon Nanotubes-Ceramic Composites; Plasma Reaction Synthesis of

Alumina-Aluminum Oxynitride Nanocomposite Powders; Nanophase Decomposition in Plasma Sprayed ZrO₂(Y₂O₃)/Al₂O₃ Coatings; Raman Image of the SiC Fibers Nanostructure; Structure of Nanocrystalline BN and BN/C Coatings on SiC; Preparation of Iron Oxide and Iron Oxide/Silicon Oxide Nanoparticles via Water-in-Oil Microemulsion; Characterization and Properties of Nanomaterials; Synthesis of Si-Based Nanowires

Characterization of Nanometer-Scale Columnar and Low-Density Boundary Network Structures in Hydrogenated Amorphous Carbon FilmsProperties of Transparent Conducting Coatings (TCO) Made by Chemical Nanotechnology Process; Microstructure of N-Implanted Ti Thin Films Prepared by Ion Beam Sputtering Deposition; Novel Nanotechnology of Usable Superconductor Ceramics; Industrial Development and Applications of Nanomaterials; Ceramic Nanoparticle Technologies for Ceramics and Composites; The Commercialization of Nanomaterials; Panel Discussion: Commercialization of Nanomaterials; Index

Sommario/riassunto

In a relatively short time, the field of nanostructured materials has expanded from a novel area of research to a technology with a significant and rapidly growing commercial sector. This proceedings contains papers on the following topics: Synthesis and Processing of Nanoparticles and Nanostructured Assemblies; Fabrication and Properties of Nanocomposites; Characterization and Properties of Nanomaterials; and Industrial Development and Applications of Nanomaterials.
