Record Nr. UNINA9910143549803321 Ceramic nanomaterials and nanotechnology II [[electronic resource]]: **Titolo** proceedings of the Nanostructured Materials and Nanotechnology Symposium held at the 105th Annual Meeting of The American Ceramic Society, April 27-30, in Nashville, Tennessee / / edited by Mark R. De Guire ... [et al.] Westerville, Ohio, : American Ceramic Society, c2004 Pubbl/distr/stampa **ISBN** 1-280-67433-4 9786613651266 1-118-40608-7 1-118-40609-5 1-4175-0156-1 Descrizione fisica 1 online resource (214 p.) Collana Ceramic transactions, , 1042-1122;; v. 148 Altri autori (Persone) De GuireMark R Disciplina 620.1/4 620.14 Soggetti Ceramic materials Nanostructured materials Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. 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 BaTiO3; 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 OpticsFabrication and Properties of Nanocomposites; Carbon Nanotubes-Ceramic Composites; Plasma Reaction Synthesis of Alumina-Aluminum Oxynitride Nanocomposite Powders; Nanophase

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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

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## 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.