Record Nr. UNINA9910146413603321 Nanostructured materials and nanotechnology [[electronic resource]]. **Titolo** II: a collection of papers presented at the 32nd International Conference on Advanced Ceramics and Composites, January 27-February 1, 2008, Daytona Beach, Florida / / editors Sanjay Mathur, Mrityunjay Singh; volume editors, Tatsuki Ohji, Andrew Wereszczak Hoboken, N.J., : Wiley, c2009 Pubbl/distr/stampa **ISBN** 1-282-36839-7 9786612368394 0-470-45624-8 0-470-45623-X Descrizione fisica 1 online resource (268 p.) Collana Ceramic engineering and science proceedings; v. 29, issue 8 Classificazione ZM 6100 Altri autori (Persone) MathurSanjay SinghM (Mrityunjay) OhjiT (Tatsuki) WereszczakAndrew 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 Nanostructured Materials and Nanotechnology II: Contents: Preface:

Introduction; One-Dimensional Nanostructured Ceramics for

Healthcare, Energy and Sensor Applications; What Makes a Good TiO2 Photocatalyst?; Manufacturing of Ceramic Membranes Consisting of ZrO2 with Tailored Microporous Structures for Nanofiltration and Gas Separation Membranes; Electrical, Mechanical, and Thermal Properties of Multiwalled Carbon Nanotube Reinforced Alumina Composites;

Microstructure and Dielectric Properties of Nanostructured TiO2

Ceramics Processed by Tape Casting

The Simulation in the Real Conditions of Antibacterial Activity of TiO2 (Fe) Films with Optimized MorphologyPolyethylene/Boron Containing Composites for Radiation Shielding Applications; Synthesis and Optical Properties of SiCnc/SiO2 Nanocomposite Thin Films; Strength and Related Phenomenon of Bulk Nanocrystalline Ceramic Synthesized via Non-Equilibrium Solid State P/M Processing; Properties of Nanostructured Carbon Nitride Films for Semiconductor Process Applications; Applying Nickel Nanolayer Coating onto BB4BC Particles for Processing Improvement

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Sommario/riassunto

A collection of papers from The American Ceramic Society s 32nd International Conference on Advanced Ceramics and Composites, held in Daytona Beach, Florida, January 27-February 1, 2008. Topics include basic and applied research in nanomaterials such as synthesis, functionalization, processing, and characterization; structure-property correlations; bio- and magnetic nanomaterials; nanostructured materials for chemical mechanical planarization, display, health, and cosmetic applications; nanotubes and nanowires; and industrial development.