

1. Record Nr.	UNINA9910815519603321
Titolo	Nanostructured materials and nanotechnology VII : a collection of papers presented at the 37th International Conference on Advanced Ceramics and Composites, January 27-February 1, 2013, Daytona Beach, Florida // edited by Sanjay Mathur, Francisco Hernandez-Ramirez
Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley & Sons, Inc., , [2014] ©2014
ISBN	9781118807996 1118807995 9781118807828 1118807820 9781118808023 1118808029
Edizione	[1st ed.]
Descrizione fisica	1 online resource (180 p.)
Collana	Ceramic engineering and science proceedings ; ; v.34, issue 7
Altri autori (Persone)	MathurSanjay Hernandez RamirezFrancisco
Disciplina	621.381
Soggetti	Nanostructured materials Nanotechnology
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	Cover; Title Page; Copyright Page; Contents; Preface; Introduction; NANOSTRUCTURED MATERIALS AND NANOTECHNOLOGY; Sol-Gel Approach to the Calcium Phosphate Nanocomposites; Reinforcement Mechanisms in Alumina Toughened Zirconia Nanocomposites with Different Stabilizing Agents; Synthesis and Characterization of Nanostructured Copper Oxide; X-Ray Diffraction Study on the In-Situ Crystallization Kinetics in Electrospun PVP/TiO ₂ Nanofibers; Metal-Catalyzed Growth of ZnO Nanowires; Graphene-SnO ₂ Nanocomposites for Lithium-Ion Battery Anodes Cobalt-Manganese Spinel Oxides as Visible-Light-Driven Water Oxidation CatalystsEclipse Transparent Electrode and Applications; Plasma Enhanced CVD of Transparent and Conductive Tin Oxide Thin

Films; Chemically Bonded Phosphate Ceramics Reinforced with Carbon Nanotubes; Hardness of Alumina/Silicon Carbide Nanocomposites at Various Silicon Carbide Volume Percentages; NANOMATERIALS FOR SENSING APPLICATIONS; Self-Sustained NO₂ GAS Sensor Operating at Room Temperatures Based on Solar Light activated p-NiO/n-Si Diode Synthesis, Structural Studies of Some Lanthanide Complexes of the Mesogenic Schiff-Base, N,N'-di-(4'- Octadecyloxybenzoate) Salicylidene-1,3-Diamino-2-Propanol Development of Single-, Few- and Multiple-Nanowire Gas-Sensor Two-Terminal Devices on Ceramic Substrates and Characterization by Impedance Spectroscopy; Synthesis and Dispersion of Silica Nanowires for Biosensing Applications; Author Index

Sommario/riassunto

Ceramic Engineering and Science Proceedings Volume 34, Issue 7 - Nanostructured Materials and Nanotechnology VII A collection of 16 papers from The American Ceramic Society's 37th International Conference on Advanced Ceramics and Composites, held in Daytona Beach, Florida, January 27-February 1, 2013. This issue includes papers presented in the 7th International Symposium on Nanostructured Materials and Nanotechnology (Symposium 7) and Nanomaterials for Sensing Applications symposia (Focused Session 3).
