

1. Record Nr.	UNINA9910876534103321
Titolo	Advances and applications in electroceramics // edited by K.M. Nair, Quanxi Jia, Shashank Priya
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, 2011
ISBN	1-283-24022-X 9786613240224 1-118-14447-3 1-118-14448-1 1-118-14445-7
Descrizione fisica	1 online resource (272 p.)
Collana	Ceramic transactions, , 1042-1122 ; ; v. 226
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Disciplina	620.14 621.381
Soggetti	Electronic ceramics
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	Advances and Applications in Electroceramics; Contents; Preface; DIELECTRIC MATERIALS AND ELECTRONIC DEVICES; Numerical Simulations of a Back Grinding Process for Silicon Wafers; Sol-Gel Processing of Single Phase BiFeO3 Ceramics: A Structural, Microstructural, Dielectric, and Ferroelectric Study; Electro Ceramic Properties of Porous Silicon Thin Films on P-Type Crystalline Silicon; Tape Cast Dielectric Composites Produced with Camphene as a Freezing Medium; Electronic Transfer between Low-Dimensional Nanosystems Combined Dilatometer-Mass Spectrometer Analysis of the Sintering of Barium Titanate Effect of DC Poling Field on Ferroelectric Properties in Alkali Bismuth Titanate Lead-Free Ceramics; Multifunctional Nature of Modified Iron Titanates and Their Potential Applications; Long-Term Convergence of Bulk- and Nano-Crystal Properties; Influence of Magnetic Flux Density and Sintering Process on the Oriented Structure of C-Axis-Oriented Sr2NaNb5O15 Piezoelectric Ceramics; Sintering of

Defect-Free BaTi_{0.975}Sn_{0.025}O₃/BaTi_{0.85}Sn_{0.15}O₃ Functionally Graded Materials
Applications of High-Throughput Screening Tools for Thermoelectric Materials
DEVELOPMENTS IN HIGH TEMPERATURE SUPERCONDUCTORS; Altering Self-Assembly of Second Phase Additions in YBa₂Cu₃O_{7-x} for Pinning Enhancement; Electrical Properties of Hg_{0.8}Tl_{0.2}Ba₂Ca_{n-1}Cu_nO_{2n+2} for (n=1-5) HTSC System; Electrodeposited Ag-Stabilization Layer for High Temperature Superconducting Coated Conductors; The Combined Influence of SiC and Rare-Earth Oxides Doping on Superconducting Properties of MgB₂ Wires; Fabrication of GdBCO Coated Conductors on Clad-Type Textured Metal Substrates for HTS Cables
Characteristics of Superconducting YBCO Phase Formation through Auto Combustion Citrate-Nitrate Sol-Gel
Chemical Interactions of the Ba₂YCu₃O_{6+x} Superconductor with Coated Conductor Buffer Layers; Chemical Tailoring of Electronic Doping in Y_{1-x}Gd_xBa_{1.9}Sr_{0.1}Cu₃O₇-High T_c Superconductors; Processing-Property Relations for Y_{1-x}Gd_xBa₂Cu₃O₇- High T_c Superconductors; MAGNETOELECTRIC MULTIFERROICS; Finite-Size Effects in Nanoscaled Multiferroics
Functionally Graded Piezomagnetic and Piezoelectric Bilayers for Magnetic Field Sensors: Magnetolectric Interactions at Low-Frequencies and at Bending Modes
Magnetic and Electrical Properties of 0.7Bi_{0.95}Dy_{0.05}FeO₃-0.3Pb(Fe_{0.5}Nb_{0.5})O₃ Multiferroic; Multiferroic Nanofilm with Bilayer of Pb(Zr_{0.52}Ti_{0.48})O₃ and CoFe₂O₄ Prepared by Electrophoretic Deposition; MULTIFUNCTIONAL OXIDES; Synthesis and Characterization of Ternary Cobalt Spinel Oxides for Photoelectrochemical Water Splitting to Produce Hydrogen; Author Index

Sommario/riassunto

This book contains 26 papers from the Magnetolectric Multiferroic Thin Films and Multilayers; Dielectric Ceramic Materials and Electronic Devices; Recent Developments in High-Temperature Superconductivity; and Multifunctional Oxides symposia held during the 2010 Materials Science and Technology (MS&T'10) meeting, October 17-21, 2010, Houston, Texas. Topics include: Properties; Structures; Synthesis; Characterization; Device Applications; Multiferroics and Magnetolectrics; YBCO Pinning Methods and Properties; YBCO Processing and Reliability Related Issues; New Superconductors and MgB₂.
