

1. Record Nr.	UNINA9910464990503321
Titolo	Electroceramics VI : selected, peer reviewed papers from the 6th international conference on electroceramics (ICHSM 2010), November 9-13, 2013, Joao Pessoa, Brazil // edited by Daniel Z. de Florio [and three others]
Pubbl/distr/stampa	Switzerland : , : Trans Tech Publications, , 2014 Switzerland : , : Trans Tech Publications, , [date of distribution not identified] ©2014
ISBN	3-03826-526-8
Descrizione fisica	1 online resource (294 p.)
Collana	Advanced Materials Research, , 1022-6680 ; ; Volume 975
Disciplina	621.381
Soggetti	Electronic ceramics Electronic ceramics - Materials Electronic ceramics - Surfaces Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes indexes.
Nota di contenuto	Electroceramics VI; Committees and Acknowledgement; Table of Contents; Chapter 1: Ferroelectrics, Piezoelectrics and Pyroelectrics; Ferroelectric Properties of Bi <sub>0.5</sub> (Na <sub>0.8</sub> K <sub>0.2</sub> ) <sub>0.5</sub> TiO <sub>3</sub> Ceramics; Physical Properties of Self-Polarized PZT Thin Films at Compositions around the Morphotropic Phase Boundary; Structure, Dielectric Relaxor Behavior and Ferroelectric Properties of Sr <sub>1-x</sub> La <sub>x</sub> Bi <sub>2</sub> Nb <sub>2-x/5</sub> O <sub>9</sub> Ferroelectric Ceramics; PZT Dielectric Ceramic Characterization for Application in Nonlinear Transmission Lines; Titanium K-Edge XAS Study on Local Structure of Pb <sub>1-x</sub> Ca <sub>x</sub> TiO <sub>3</sub> Ferroelectric Ceramics Effects of La Doping on the Structural and Dielectric Properties of Barium Titanate Ceramics Cr-Doping-Induced Ferromagnetism in CeO <sub>2</sub> - Nanopowders; Electrodeposition of Zinc Oxide NanoSheets on Exfoliated Tips of Carbon Nanotube Films; Ultrasonic Synthesis of SrTiO <sub>3</sub> ; Characterization of Multilayer Ferroelectric Ceramic Capacitors in a Wide Frequency Range for RF Applications; Chapter 2:

Thermoelectrics; Structural and Thermal Properties of  $\text{YMn}_{1-x}\text{Ru}_x\text{O}_3$ ;  
Chapter 3: Ionic and Electronic Conductors and Applications to Solid  
Oxide Fuel Cells and Membrane Technology  
Influence of the Zn Dopant in Structural and Electrical Properties of the  
 $\text{La}_2\text{Ni}_{1-x}\text{Zn}_x\text{O}_4$  Ionic Conductivity of Chemically Synthesized  $\text{La}_{0.9}\text{Sr}_{0.1}\text{Ga}_{0.8}\text{Mg}_{0.2}\text{O}_3$ - Solid Electrolyte; Effect of Manganese Dioxide  
Addition on the Cubic Phase Stability, Densification and Electrical  
Conductivity of Scandia-Stabilized Zirconia; Chapter 4: Magnetic and  
Superconducting Ceramics; Effects of Oxygen Doping on the Transport  
Properties of  $\text{Hg}_{0.82}\text{Re}_{0.18}\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{8+d}$  Superconducting  
Polycrystals; Magnetic Properties of YBCO/LCMO Superlattices with and  
without STO Interlayers  
Characterization of Superconducting BSCCO/ $\text{CaSiO}_3$  and  
BSCCO/ $\text{CaZrO}_3$  Ag PIT Wires Magnetocrystalline Properties of  $\text{Sr}_{1.4}\text{Ba}_{1.6}\text{Co}_2\text{Fe}_{24}\text{O}_{41}$ ; Effects of  $\text{Ca}^{2+}$ -Doping on the Crystal Lattice of -  
 $\text{Fe}_2\text{O}_3$ ; Ferromagnetic Cluster on  $\text{La}_2\text{FeMnO}_6$ ; Characterization of  
 $\text{Bi}_{2212}$  Superconductor Bulk Samples by Digital Image Processing;  
Chapter 5: Materials for Fuel Cells; Preparation of  $(\text{BaSr})_{0.5}\text{Sm}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_3$ - and  $(\text{BaSr})_{0.5}\text{Nd}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_3$ - Cathodes for IT-SOFCs;  
Low Temperature Synthesis of Lanthanum Silicate Apatite Type by  
Modified Sol Gel Process; Particle-Filled Polysilazane Coatings for Steel  
Protection  
Effects of Microwave Processing on the Properties of Nickel  
Oxide/Zirconia/Ceria Composites Chapter 6: Electroceramic Devices.  
Sensors and Actuators; Effect of Cd Doping on Mechanical Properties of  
 $\text{SrCoO}_3$ ; Electrical Properties of a  $\text{TiO}_2$ - $\text{SrO}$  Varistor System;  
Development and Test of a Small Resistive Fault Current Limiting Device  
Based on a  $\text{SmBaCuO}$  Ceramic; Electrodeposition of Zinc Oxide on  
Graphene Tips Electrochemically Exfoliated and  $\text{O}_2$ -Plasma Treated;  
Dielectric Properties of  $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$  Synthesized by Different Routes  
Gas Sensor Properties of  $\text{ZnO}$  Nanorods Grown by Chemical Bath  
Deposition

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Sommario/riassunto

Collection of selected, peer reviewed papers from the 6th International  
Conference on Electroceramics, November 9-13, 2013, Joao Pessoa,  
Brazil. The 47 papers are grouped as follows: Chapter 1: Ferroelectrics,  
Piezoelectrics and Pyroelectrics, Chapter 2: Thermoelectrics, Chapter 3:  
Ionic and Electronic Conductors and Applications to Solid Oxide Fuel  
Cells and Membrane Technology, Chapter 4: Magnetic and  
Superconducting Ceramics, Chapter 5: Materials for Fuel Cells, Chapter  
6: Electroceramic Devices. Sensors and Actuators, Chapter 7: Solar  
Photovoltaic and Photoelectrochemical Cells, Chapter 8:

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