

1. Record Nr.	UNINA9910458827303321
Titolo	Electroceramics [[electronic resource] ] : production, properties and microstructures // edited by W.E. Lee and A. Bell
Pubbl/distr/stampa	London, : Institute of Materials, 1994
ISBN	1-907625-56-9
Descrizione fisica	1 online resource (354 p.)
Collana	British ceramic proceedings, , 0268-4373 ; ; no. 52 Book ; ; 564
Altri autori (Persone)	LeeW. E Bella
Disciplina	620.1404297
Soggetti	Electronic ceramics Ceramic materials Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Symposium held in conjunction with Condensed Matter and Materials Physics Conference, 20-23 December 1993, University of Leeds.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Contents; Introductory Statement; The Influence of Crystal Chemistry on the Ferroelectric and Piezoelectric Properties of Perovskite Ceramics; Influence of Structural Defects on Properties of Zirconium Titanate Based Microwave Ceramics; Simulation of the Dielectric Function of Pb (Mg <sup>1/3</sup> Nb <sup>2/3</sup> )O <sub>3</sub> from the Superparaelectric Model; Chemical Synthesis and Processing of Bismuth Titanate (Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> )Electroceramics in Thin-Layer Form by a Sol-Gel Method; Sol-Gel Ferroelectric PZT Thin Films for Non-Volatile Memory Applications Effect of Thermal Processing Conditions on the Structure and Properties of Sol-Gel Derived PZT Thin LayersFerroelectric Thin Films for Integrated Device Applications; Sol-Gel Derived PLZT Thin Layers Crystallised with Epitaxy on Surface-Modified Platinum Electrodes; Thin Films of PZT and Ca-Pt Prepared by a Sol-Gel Method; Aqueous and Sol-Gel Synthesis of Submicron PZT Materials and Development of Tape Casting Systems for Multilayer Actuator Fabrication; Dielectric Properties and Ageing of Fe-doped PZT Ceramics Prepared by the EDTA-Gel Method Preparation of PLZT Powder by a Citrate Gel TechniqueCitrate Gel Route Processing of ZnO Varistors; Suppression of Zinc Interstitial Ion

Migration in ZnO Due to the Presence of Sodium Ions; Dielectric Properties of A and B Site Substituted Lead Magnesium Niobate; The Effect of Hot Isostatic Pressing on the Microstructure of Hydrothermally Processed PbTiO<sub>3</sub> Ceramics; Hot Isostatic Pressing of Aurivillius Compounds for High-Temperature Device Applications; Investigation of High-Temperature Piezoelectric Ceramics; 0-3 Piezoceramic-Thermoplastic Polymer Composites  
The Morphology of Barium Titanate Powders Produced by the Barium Carbonate-Titanium Dioxide Reaction; Aqueous Processing of Barium Titanate Powders; The Effect of ZnO Additions on the Structure and Properties of Sr<sub>2</sub>Nb<sub>2</sub>O<sub>7</sub> Ceramics; Structural and Electrical Characterisation of a New Bismuth Vanadium Oxide; Structure and Electrical Properties of Ceria Based Oxide Ion Conductors Prepared at Low Temperatures; Development and Evaluation of Oxide Cathodes for Ceramic Fuel Cell Operation at Intermediate Temperatures  
Hydrothermal Synthesis of Strontium Hexaferrite: Powder Composition, Morphology and Magnetic Properties; Properties of Reaction Sintered Manganese-Zinc Ferrites; Electrically Conducting Composite Ceramics Produced by Hydrothermal Synthesis; Glass-Ceramic Coatings for Stainless Steel; The Use of Nonlinear Ferroelectric Ceramic Dielectrics in High-Voltage Pulsed Power; D.C. Pre-Breakdown Photon Emission from an Alumina Insulator in Vacuum; Monitoring the Integrity of MOS Gate Oxides; Index; Author Index

---

Sommario/riassunto

Proceedings of the Symposium held as part of the Condensed Matter and Materials Conference in 1993. Contents include: ferroelectric thin films for integrated device applications; effect of thermal processing conditions on the structure and properties of sol-gel derived PZT thin layers; citrate gel-route processing of ZnO varistors; development and evaluation of oxide cathodes for ceramic fuel cell operation at intermediate temperatures; monitoring the integrity of MOS gate oxides.

---