1. Record Nr. UNINA9910830525903321

| | |
|---|---|
| Titolo | Morphotropic phase boundary perovskites, high strain piezoelectrics, and dielectric ceramics [[electronic resource] ] : proceedings of the Dielectric Materials and Multilayer Electronic Devices Symposium and the Morphotropic Phase Boundary Phenomena and Perovskite Materials Symposium held at the 104th Annual Meeting of the American Ceramic Society, April 28-May 1, 2002 in St. Louis, Missouri and the High Strain Piezoelectrics Symposium held at the 103rd Annual Meeting of the American Ceramic Society, April 22-25 2001 in Indianapolis, Indiana / / edited by Ruyan Guo ... [et al.] |
| Pubbl/distr/stampa | Westerville, Ohio, : American Ceramic Society, c2003 |
| ISBN | 1-280-67339-7<br>9786613650320<br>1-118-38080-0<br>1-118-40574-9 |
| Descrizione fisica | 1 online resource (598 p.) |
| Collana | Ceramic transactions, , 1042-1122 ; ; v. 136 |
| Altri autori (Persone) | GuoRuyan |
| Disciplina | 621.381 |
| Soggetti | Electronic ceramics<br>Perovskite materials<br>Piezoelectric ceramics<br>Dielectric devices |
| 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 | Morphotropic Phase Boundary Perovskites, High Strain Piezoelectrics, and Dielectric Ceramics; Contents; Preface; Morphotropic Phase Boundary Material Systems and Their Structure-Property-Chemistry Relations; Local Atomic Structure and Morphotropic Phase Boundary; Structure and Dynamics of The Ferroelectric Relaxors Pb(Mg1/3Nb2/3) O3 and Pb(Zn13Nb2/3)O3; Morphotropic Phase Boundary and Related Properties in Relaxor-Based Piezoelectric Perovskite Solid Solutions; The Morphotropic Phase Boundary in Perovskite Ferroelectric Relaxor Systems<br>In-Situ Neutron Diffraction Study of the Ferroelastic Behavior of Pb(Zr, |

Ti)O3Fourier Harmonic Analysis of the Electromechanical Response of Electroactive Materials; High Curie Temperature, High Performance Perovskite Single Crystals in the Pb(Yb1/2Nb1/2)O3-PbTiO3 and BiScO3-PbTiO3 Systems; Electromechanical Performance Advantages and Limitations of - Oriented Pb(Mg1/3Nb2/3)O3-PbTiO3 Crystals; Polarization Induced Cracking in Partially Electroded PSZT Ceramic; Acceptor Doped PZN-PT Single Crystals; Structure and Dielectric Properties in Novel BiGaO3-PbTiO3 Crystalline Solutions
Preparation and Electrical Properties of Pb(ln1/2Nb1/2)O3 Based Relaxor MaterialsComposition and Sintering Process Effects on Ferroelectric Fatigue in (1-x)Pb(Mg1/3Nb2/3)O3-x PbTiO3 Ceramics; Sintering Behavior of Additive Free (Pure) Lead Metaniobate Ceramics; Electroceramic Fibers for Active Control; Influence of Hot-Pressing Parameters in Microstructure Evolution of PBN on Morphotropic Phase Boundary; Synthesis of High Strain Piezoelectric Crystals and Textured Ceramics; Feasibility of the Growth of Relaxor-Based Ferroelectric Single Crystals
Two Inches Size Single Crystal Growth of Piezoelectric Pb[(Zn1/3Nbl/3) 0.91Ti0.09]O3 by the Solution Bridgman MethodImproved Dielectric And Piezoelectric Properties of  Pb(Mg1/3Nb2/3)O3-32.5PbTiO3 Ceramics and [001]Textured PMN-PT; Laser Heated Pedestal Growth of Lead Magnesium Niobate - Lead Titanate Crystals and Their Characterization; Effect of Li2O and PbO Additions on Abnormal Grain and Single Crystal Growth in the Pb(Mg1/3Nb2/3)O3-35 MOL% PbTiO3 System; High Aspect Ratio Platelet SrTiO3 for Templated Grain Growth of PMN-PT Ceramics
Synthesis of PMN and 65PMN-35PT Ceramics and Films by a New Suspension MethodDielectric Materials Development and Device Fabrications; Microwave Properties of Low-Temperature Co-Fired Ceramic Systems*; Near-Zero Tf Doped-Niobate Ceramics for Dielectric Resonator Applications; Low-T Sintering, Low-Dielectric Materials for High Frequency Ceramic Multilayer Parts; Low-Inductance Barium Strontium Titanate Thin Film Capacitors for Decoupling Applications; Dielectric Properties of (Sr,.xPbx)Ti03 (x=0.2,0.25, and 0.3): MgO Composites
Lattice Misfit as a Design Parameter for Enhanced Dielectric Response and Tunability in Epitaxial Barium Strontium Titanate Films

Sommario/riassunto

Proceedings of the Symposium on Dielectric Materials and Multilayer Electronic Devices and the Symposium on Morphotropic Phase Boundary Phenomena and Perovskite Materials, held April 28 - May 1, 2002, in St. Louis, Missouri, during the 104th Annual Meeting of the American Ceramic Society, and the Focused Session on High Strain Piezoelectrics, held April 22-25, 2001, in Indianapolis, Indiana, during the 103rd Annual Meeting of the American Ceramic Society.