

1. Record Nr.	UNISA996215321303316
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 9786613650320 1-118-38080-0 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 Perovskite materials Piezoelectric ceramics 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(Mg ^{1/3} Nb ^{2/3})O ₃ and Pb(Zn ^{1/3} Nb ^{2/3})O ₃ ; Morphotropic Phase Boundary and Related Properties in Relaxor-Based Piezoelectric Perovskite Solid Solutions; The Morphotropic Phase Boundary in Perovskite Ferroelectric Relaxor Systems In-Situ Neutron Diffraction Study of the Ferroelastic Behavior of Pb(Zr,

Ti)O₃ Fourier Harmonic Analysis of the Electromechanical Response of Electroactive Materials; High Curie Temperature, High Performance Perovskite Single Crystals in the Pb(Yb^{1/2}Nb^{1/2})O₃-PbTiO₃ and BiScO₃-PbTiO₃ Systems; Electromechanical Performance Advantages and Limitations of - Oriented Pb(Mg^{1/3}Nb^{2/3})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(In^{1/2}Nb^{1/2})O₃ Based Relaxor Materials Composition and Sintering Process Effects on Ferroelectric Fatigue in (1-x)Pb(Mg^{1/3}Nb^{2/3})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[(Zn^{1/3}Nb^{1/3})_{0.91}Ti_{0.09}]O₃ by the Solution Bridgman Method Improved Dielectric And Piezoelectric Properties of Pb(Mg^{1/3}Nb^{2/3})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(Mg^{1/3}Nb^{2/3})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 Method Dielectric 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_xPb_{1-x})TiO₃ (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.
