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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 <sup>1/3</sup> Nb <sup>2/3</sup> )O <sub>3</sub> and Pb(Zn <sup>1/3</sup> Nb <sup>2/3</sup> )O <sub>3</sub> ; 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)O<sub>3</sub>; Fourier Harmonic Analysis of the Electromechanical Response of Electroactive Materials; High Curie Temperature, High Performance Perovskite Single Crystals in the Pb(Yb<sub>1/2</sub>Nb<sub>1/2</sub>)O<sub>3</sub>-PbTiO<sub>3</sub> and BiScO<sub>3</sub>-PbTiO<sub>3</sub> Systems; Electromechanical Performance Advantages and Limitations of  $\alpha$ -Oriented Pb(Mg<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub>-PbTiO<sub>3</sub> Crystals; Polarization Induced Cracking in Partially Electroded PSZT Ceramic; Acceptor Doped PZN-PT Single Crystals; Structure and Dielectric Properties in Novel BiGaO<sub>3</sub>-PbTiO<sub>3</sub> Crystalline Solutions; Preparation and Electrical Properties of Pb(In<sub>1/2</sub>Nb<sub>1/2</sub>)O<sub>3</sub> Based Relaxor Materials; Composition and Sintering Process Effects on Ferroelectric Fatigue in (1-x)Pb(Mg<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub>-x PbTiO<sub>3</sub> 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<sub>1/3</sub>Nb<sub>1/3</sub>)<sub>0.91</sub>Ti<sub>0.09</sub>]O<sub>3</sub> by the Solution Bridgman Method; Improved Dielectric And Piezoelectric Properties of Pb(Mg<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub>-32.5PbTiO<sub>3</sub> Ceramics and [001]Textured PMN-PT; Laser Heated Pedestal Growth of Lead Magnesium Niobate - Lead Titanate Crystals and Their Characterization; Effect of Li<sub>2</sub>O and PbO Additions on Abnormal Grain and Single Crystal Growth in the Pb(Mg<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub>-35 MOL% PbTiO<sub>3</sub> System; High Aspect Ratio Platelet SrTiO<sub>3</sub> 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<sub>x</sub>Pb<sub>1-x</sub>)TiO<sub>3</sub> (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

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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.

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