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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 ^{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, |

TiO₃ 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 α -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
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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.
