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Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Synthesis, Properties, and Crystal Chemistry of Perovskite-Based Materials; Contents; Preface; Novel Applications of Perovskite Materials; Bismuth-Based Perovskite Structure Solid Solutions with FerroelectricMorphotropic Phase Boundaries for Piezoelectric Applications; The Wagon Wheel Transducer as a Vector Sensor and a Directional Projector; Effect of Cathode Materials on the Performance of Single Chamber Solid Oxide Fuel Cells and Module; Perovskite Type Buffers for YBCO Coated Conductors; Polarization Dynamics Over Broad Time and Field Domains in Modified Ferroelectrics Ba(ZrxTi1-x)O3:MgO Composites for Field and Frequency Tunable ApplicationsProcessing, Texture and Grain Boundaries in Perovskites; Microstructural Aspects of Inclined Substrate Deposition Templates for Coated Conductors; Twins in Superconducting Melt-textured Grown Y-Ba-Cu-O as Related to Critical Current Densities; Characterization of Lanthanum Chromite Powders Obtained by Combustion Reaction; The Effect of Processing Conditions on the Dielectric Properties of Lead Magnesium Niobate-Lead Titanate Ceramics

An Investigation of Electric Field-Induced Microcracking and Toughening in Piezoelectric Crystals  
Crystal Chemical and Physical Related Issues, Synthesis and Crystal Growth; Homogeneity Region and Crystal Structure of Sr and Mg Containing LaGaO<sub>3</sub> at Temperatures between 1100°C and 1500°C in Air; Phase Equilibria of the Lead-Magnesium-Titanate and Lead-Niobium-Titanate Systems at 1000°C and 1 atm; Ferroelectric Behavior in the Aurivillius Phase Bi<sub>3</sub>Ti<sub>1.5</sub>WO<sub>10</sub>; Electric Field-Induced Intersections of 90° Domain Walls in Tetragonal Ferroelectric Crystals  
Structural Transformations in Bismuth Titanates  
Dielectric Property of Oxynitride Perovskites Containing Ta<sup>5+</sup>; High Energy Density Ferroelectric Glass-Ceramics; Incongruent Vaporization of AgNbO<sub>3</sub>; Author Index; Keyword Index

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Sommario/riassunto

The number of ceramic materials with a perovskite type structure is large and of considerable technological importance due to their rich crystal chemistry and structure-property relationships. Applications include multilayer capacitors, piezoelectric transducers, PTC thermistors, electrooptical modulators, optical switches, dielectric resonators, thick film resistors, electronic sensors, electrorestrictive actuators, magnetic bubble memory devices, laser host materials, ferromagnetic materials, refractory electrodes, second harmonic generators, batteries, ceramic electrodes, thermoelectric d

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