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BaTiO3 Fine Powders by Pulse Jet Spray Pyrolysis; Domain Dynamics under Unipolar Electric Fields for BaTiO3 Single Crystals
Improvement of Insulation Reliability of BaTiO3-Based Ceramics Using Mixed Conductive ElectrodeII. Lead-Free Piezoelectric Ceramics; Polarization Switching Dynamics of Ferroelectric (Bi0.5Na0.5)TiO3 Single Crystals; Preparation of BiFeO3-BaTiO3 Based Thick Films by Screen Printing; Synthesis and Properties of Mn-Doped (Bi0.5Na0.5) TiO3 Thin Films by Chemical Solution Deposition; Mossbauer Spectra of 57Fe-Enriched BiFeO3 Thin Films Fabricated on SiO2/Si Substrates by Chemical Solution Deposition Process
Preparation of Barium Titanate/Strontium Titanate Accumulation Ceramics with Necking Structure of Strontium Titanate NanocubesPreparation of Bismuth Based Perovskite Oxides and their Electric Properties; Preparation of Potassium Niobate/Barium Titanate Nanocomposite Ceramics with a Wide Barium Titanate Particle Size Distribution and their Dielectric Properties; Preparation of Grain-Oriented Ceramics with Bismuth Potassium Titanate-Barium Titanate and their Piezoelectric Properties
Chemical Composition of Dielectric and Piezoelectric Properties for BaTiO3-Bi (Mg1/2Ti1/2)O3-BiFeO3 System Ceramics Preparation of (Bi1/2K1/2)TiO3-Bi(Mg1/2Ti1/2)O3-BiFeO3 Ceramics With nano domain Structure and their Piezoelectric Properties; Origin of Semiconducting Behavior of CaO Added BaTiO3-(Bi1/2Na1/2)TiO3 Ceramics; Leakage Current and Polarization Properties of (Bi0.5Na0.5) TiO3-BaTiO3 Single Crystals; III. Energy Related Ceramics; Electrode Properties of Defect-Introduced Graphenes for Lithium-Ion Batteries Relationship between Phonon Parameters and Oxygen Ion Conductivity for Al-Yb Co-Doped Zirconia

Sommario/riassunto

This special collection brings together the latest developments in the science and technology of electroceramics. It focuses upon contributing to the exchange of Electroceramics know-how; both scientific and industrial. The major topics covered by this special collection includes dielectric and ferroelectric ceramics, lead-free ferroelectric ceramics, energy related ceramics, thin film and nanocrystal, semiconductor, magnetic, optical, and sensor ceramics. All papers collected were reviewed. Some 150 researchers, engineers, and students discussed and exchanged information concerning recent dev