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Nota di contenuto	Electroceramics in Japan XVI; Preface; Table of Contents; I. Dielectric, Piezoelectric and Ferroelectric Ceramics; Domain Contribution to Elastic Nonlinearity in Pb(Zr, Ti)O <sub>3</sub> -Based Piezoelectric Ceramics; Fabrication of Lead Zirconate Titanate Thin Films by Inkjet Printing; Preparation and Characterization of Spherical Fine Nickel Particles by Ultrasonic Spray Pyrolysis; One-Axis-Oriented Crystal Growth of Lead Zirconate Titanate Thin Films on Metal Substrates Using Perovskite-Type Oxide Nanosheet Layer; TEM Analysis of the Nanostructure of Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> Thin Films by MOD Method Preparation of Barium Titanate Nanoperticles with Necking Structure/Polymer Complex and their Dielectric PropertiesPreparation of Barium Titanate Grain-Oriented Ceramics by Electrophoresis Deposition Method under High Magnetic Field Using Single-Domain Nanoparticles; Microstructure Control of Porous Barium Titanate Ceramics and their Sensor Properties; Synthesis and Characterization of BaTiO <sub>3</sub> Fine Powders by Pulse Jet Spray Pyrolysis; Domain Dynamics

under Unipolar Electric Fields for BaTiO<sub>3</sub> Single Crystals  
Improvement of Insulation Reliability of BaTiO<sub>3</sub>-Based Ceramics Using Mixed Conductive Electrode. Lead-Free Piezoelectric Ceramics; Polarization Switching Dynamics of Ferroelectric (Bi<sub>0.5</sub>Na<sub>0.5</sub>)TiO<sub>3</sub> Single Crystals; Preparation of BiFeO<sub>3</sub>-BaTiO<sub>3</sub> Based Thick Films by Screen Printing; Synthesis and Properties of Mn-Doped (Bi<sub>0.5</sub>Na<sub>0.5</sub>)TiO<sub>3</sub> Thin Films by Chemical Solution Deposition; Mossbauer Spectra of <sup>57</sup>Fe-Enriched BiFeO<sub>3</sub> Thin Films Fabricated on SiO<sub>2</sub>/Si Substrates by Chemical Solution Deposition Process  
Preparation of Barium Titanate/Strontium Titanate Accumulation Ceramics with Necking Structure of Strontium Titanate Nanocubes  
Preparation 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 BaTiO<sub>3</sub>-Bi (Mg<sub>1/2</sub>Ti<sub>1/2</sub>)O<sub>3</sub>-BiFeO<sub>3</sub> System Ceramics Preparation of (Bi<sub>1/2</sub>K<sub>1/2</sub>)TiO<sub>3</sub>-Bi(Mg<sub>1/2</sub>Ti<sub>1/2</sub>)O<sub>3</sub>-BiFeO<sub>3</sub> Ceramics With nano domain Structure and their Piezoelectric Properties; Origin of Semiconducting Behavior of CaO Added BaTiO<sub>3</sub>-(Bi<sub>1/2</sub>Na<sub>1/2</sub>)TiO<sub>3</sub> Ceramics; Leakage Current and Polarization Properties of (Bi<sub>0.5</sub>Na<sub>0.5</sub>)TiO<sub>3</sub>-BaTiO<sub>3</sub> 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

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#### 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

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