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Nota di contenuto	Advances in Multifunctional Materials and Systems; Contents; Preface; Introduction; ELECTROCERAMICS; Nanostructured Ceramics of Perovskite Morphotropic Phase Boundary Materials; Transformation of Current Limiting Effect into Varistor Effect in Tin Dioxide Based Ceramics; Fabrication of MoSi2-Si-Composite Thin Films for Oxidation-Resistant Thin-Film Heaters; Influence of Interface on Tunability in Barium Strontium Titanate; Recent Progress in Multilayer Ceramic Devices Effect of Mn2O3 Addition on the Microstructure and Electrical Properties of Lead-Free Ba(Sn0.02Ti0.98)O3-(Na0.5K0.5)NbO3 CeramicsElectronic Properties of BaTiO3 Containing Glass Ceramics; Development of (100) Three-Axis-Oriented Single Crystal (Ba0.7Sr0.3) TiO3 Thin Film Fabrication on Pt/MgO(100) Substrate by Chemical

Solution Deposition Method; Influence of Ca Concentration in (Ba,Ca) TiO3 Based Ceramics on the Reliability of MLCCs with Ni Electrodes; Crystal Structure Dependence of Electrical Properties of Li0.02(K1-x Nax)0.98NbO3 Ceramics; Oxynitrides as New Functional Ceramic Materials
MICROWAVE MATERIALSTerahertz Wave Harmonization in Geometrically Patterned Dielectric Ceramics through Spatially Structural Joining; Terahertz Wave Properties of Alumina Photonic Crystals; High Symmetry Brings High Q Instead of Ordering in Ba(Zn1/3Nb2/3)O3: A HRTEM Study; Flexible Design of Composite Electromagnetic Wave Absorber Made of Aluminum and Sendust Particles Dispersed in Polystyrene Resin; New Perovskite Oxides of the Type (M1/4Ln3/4) (Mg1/4Ti3/4)O3 (M = Na, Li; Ln = La, Nd, Sm): Crystal Structure and Microwave Dielectric Properties
Understanding and Improving Insertion Loss and Intermodulation in Microwave Ferrite DevicesAuthor Index

Sommario/riassunto

The symposia Advances in Electroceramics and Microwave Materials and Their Applications were held during the 8th Pacific Rim Conference on Ceramic and Glass Technology (PACRIM 8) from May 31-June 5, 2009 in Vancouver, Canada. This issue contains 17 peer-reviewed papers (invited and contributed) from these two symposia. The book is logically organized and carefully selected articles give insight into multifunctional materials and systems and incorporates the latest developments related to multifunctional materials and systems including electroceramics and microwave materials.