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TiO<sub>3</sub> Thin Film Fabrication on Pt/MgO(100) Substrate by Chemical Solution Deposition Method; Influence of Ca Concentration in (Ba,Ca)TiO<sub>3</sub> Based Ceramics on the Reliability of MLCCs with Ni Electrodes; Crystal Structure Dependence of Electrical Properties of Li<sub>0.02</sub>(K<sub>1-x</sub>Nax)<sub>0.98</sub>NbO<sub>3</sub> Ceramics; Oxynitrides as New Functional Ceramic Materials

MICROWAVE MATERIALS Terahertz 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(Zn<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub>: 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 (M<sub>1/4</sub>Ln<sub>3/4</sub>)(Mg<sub>1/4</sub>Ti<sub>3/4</sub>)O<sub>3</sub> (M = Na, Li; Ln = La, Nd, Sm): Crystal Structure and Microwave Dielectric Properties  
Understanding and Improving Insertion Loss and Intermodulation in Microwave Ferrite Devices  
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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.

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