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Nota di contenuto	Advances in Electronic Ceramic Materials; Contents; Preface; Emerging Sensor Technology Based on Electroceramics; Zirconia-Based Gas Sensors Using Oxide Sensing Electrode for Monitoring NOx in Car Exhaust; Interfacial Processes of Ion Conducting Ceramic Materials for Advanced Chemical Sensors; Metal-Oxide Based Toxic Gas Sensors; Thermally Stable Mesoporous SnO2 and TiO2 Powders for Semi-Conductor Gas Sensor Application; DC Electrical-Biased, All-Oxide NOx Sensing Elements for Use at 873 K; Photo-Deactivated Room Temperature Hydrogen Gas Sensitivity of Nanocrystalline Doped-Tin Oxide Sensor PTCR-CO Ceramics as Chemical SensorsFull Range Dynamic Study of

Exhaust Gas Oxygen Sensors.; Advanced Dielectric Materials Phenomena; Dielectric Properties of nm-Sized Barium Titanate Fine Particles and Their Size Dependence; The Effect of Starting Powders on the Giant Dielectric Properties of the Perovskite $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$; Dielectric and Microstructural Properties of $\text{Ba}(\text{Ti}_{1-x}\text{Zr}_x)\text{O}_3$ Thin Films on Copper Substrates; Effect of A-Site Substitutions on the Microstructure and Dielectric Properties of Bismuth Sodium Titanate-Based Ceramics Exhibiting Morphotropic Phase Boundary High Q (Ba, Sr)TiOs Interdigitated Capacitors Fabricated on Low Cost Polycrystalline Alumina Substrates with Copper Metallization Microwave Dielectric Materials; Ionic Distribution and Microwave Dielectric Properties for Tungstenbronze-Type Like $\text{A}_6\text{B}_3\text{R}_8\text{Ti}_{18}\text{O}_{54}$ (R = Sm, Nd and La) Solid Solutions; Crystal Structure Analysis of Homologous Compounds $\text{A}_2\text{LqTi}_4\text{O}_{15}$ (A=Ba, Sr and Ca) and Their Microwave Dielectric Properties; Effects of Ionic Radii and Polarizability on the Microwave Dielectric Properties of Forsterite Solid Solutions Microwave Characterization of Calcium Fluoride in the Temperature Range 15-300K High-Quality 2 Inch $\text{La}_3\text{Ga}_5.5\text{Ta}_{0.5}\text{O}_{14}$ and $\text{Ca}_3\text{TaGa}_3\text{Si}_2\text{O}_{14}$ Crystals for Oscillators and Resonators; Growth of LaAlO_3 Single Crystal by Floating Zone Method and its Microwave Properties; General Topics in Electronic Ceramics; Effects of Niobium Addition on Microstructural and Electrical Properties of Lead Zirconate Titanate Solid Solution (PZr 9%) .; Enhanced Density and Piezoelectric Anisotropy in High T_c PbNb_2O_6 Based Ferroelectric Ceramics Electrical Properties of Quaternary Pyrochlore Ruthenates for Thick-Film Resistors Measurement of Complex Permittivity of Low Temperature Co-Fired Ceramic at Cryogenic Temperatures; Author Index

Sommario/riassunto

The focus of this collection is on recent research and development related to a variety of sensor technologies as well as the latest advances concerning the synthesis and characterization of dielectric, piezoelectric, and ferroelectric materials.
