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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>Advances in Electronic Ceramic Materials; Contents; Preface; Emerging Sensor Technology Based on Electroceramics; Zirconia-Based Gas Sensors Using Oxide Sensing Electrode for Monitoring NO_x 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 Semiconductor Gas Sensor Application; DC Electrical-Biased, All-Oxide NO_x Sensing Elements for Use at 873 K; Photo-Deactivated Room Temperature Hydrogen Gas Sensitivity of Nanocrystalline Doped-Tin Oxide Sensor</p> <p>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 CaCu₃Ti₄O₁₂; Dielectric and Microstructural Properties of Ba(Ti₁ .xZr_x)Os 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</p> <p>High Q (Ba, Sr)TiOs Interdigitated Capacitors Fabricated on Low Cost Polycrystalline Alumina Substrates with Copper MetallizationMicrowave Dielectric Materials; Ionic Distribution and Microwave Dielectric Properties for Tungstenbronze-Type Like 6a6.3xR8+2xTi18054 (R = Sm, Nd and La) Solid Solutions; Crystal Structure Analysis of Homologous Compounds ALqTi4015 (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</p> <p>Microwave Characterization of Calcium Fluoride in the Temperature Range 15-300KHigh-Quality 2 Inch La₃Ga_{5.5}Ta_{0.5}O₁₄ and Ca₃TaGa₃Si₂O₁₄ Crystals for Oscillators and Resonators; Growth of LaAlO₃ 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 PbNb₂O₆ Based Ferroelectric Ceramics</p> <p>Electrical Properties of Quaternary Pyrochlore Ruthenates for Thick-Film ResistorsMeasurement of Complex Permittivity of Low Temperature Co-Fired Ceramic at Cryogenic Temperatures; Author Index</p>
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.