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Altri autori (Persone)	NairK. M <1933-> (K. Manikantan) PriyaShashank
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Nota di contenuto	Advances in Electroceramic Materials II; Contents; Preface; DESIGN, SYNTHESIS AND PROPERTIES; Barium Titanate Stannate Functionally Graded Materials: Choosing of the Ti/Sn Concentration Gradient and the Influence of the Gradient on Electrical Properties; Barium Titanate and Cobalt Ferrite Nano-Particles Decorated SiCN/MWCNT Nanotubes: Synthesis and Microstructural Characterization; Synthesis, Structural and Electrical Properties of the Na _{0.5} Bi _{0.5} TiO ₃ -K _{0.5} Bi _{0.5} TiO ₃ Ceramic System; Improvement of Electric Properties of (K,Na)NbO ₃ and (K,Na)(Nb,Ta)O ₃ Based Lead-Free Piezoelectrics Structural and Electrical Characterization of Lead-Free (1-x)(Na _{1/2} Bi _{1/2})TiO ₃ -xBaTiO ₃ Piezoelectric Ceramics Temperature Dependences of Piezoelectric Properties of Textured (Bi _{1/2} K _{1/2})TiO ₃ -BaTiO ₃ Lead-Free Piezoelectric Ceramics; Structure and Dielectric Properties of Tellurium Oxide-Based Materials; Dielectric Anisotropy of

Ferroelectric Single Crystals in Microwave C-Band by Cavity Vectorial Perturbation Method; Characterization and Microstructure Evolution in Er-Doped BaTiO₃ Ceramics
Improvement of the Dielectric Properties of Tunable (Ba,Sr)TiO₃-MgO Composites by Decreasing Heterogeneous Diffusion
High Thermal Conductivity AlN Materials; Metal-Encapsulation of Ferromagnetic Nanoparticles; APPLICATIONS AND DEVICES; Optical and Electrical Single Crystals for UV/VUV Applications; Microanalyses for Piezoresistive Effect on Actual and Modeled Interfaces of RuO₂-Glass Thick Film Resistors; Lead-Free Piezoelectric Materials for Sensors, Capacitors, and Actuators; Processing Issues in Pulse DC Sputtering of Vanadium Oxide Thin Films for Uncooled Infrared Detectors
Semiconducting Metal Oxides as Oxygen Sensor
Introduction of Embossed Diaphragm in an Integrated Optical and Electronic Sensor; Optical Line Width in Quantum Dots and Nanodevices; DuPont™ Green Tape™ 9K7 Low Temperature Co-fired Ceramic (LTCC) Low Loss Dielectric System for High Frequency Microwave Applications; Polyvinylidene Fluoride (PVDF) Piezoelectric for Intravascular Monitoring of Blood Pressure and Arterial Blood Flow Rate; Indirect Template Method of Magnetic Field Assisted Assembly; Recent Developments in Thermoelectric Metrology at NIST; Author Index

Sommario/riassunto

During the past decades, understanding of the science and technology powering electronic materials has played a major role in satisfying social needs by developing electronic devices for automotive, telecommunications, military, and medical applications. This volume contains a collection of selected papers from the international symposia on Advanced Dielectric Materials and Electronic Devices and Ferroelectrics and Multiferroics presented during the Material Science and Technology conference held in Pittsburgh in October 2009. It is a one-stop resource for academics on the most important issue

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