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Altri autori (Persone)	NairK. M <1933-> (K. Manikantan)
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Note generali	"This volume contains 34 invited and contributed papers from the International Symposium on Advanced Dielectric Materials: Design, Preparation, Processing, Properties and Applications, held during ACerS' 107th Annual Meeting, April 10-13, 2005, at the Baltimore Marriott Waterfront, Baltimore, Md., USA."--Pref.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Advances in Dielectric Materials and Electronic Devices; Contents; Preface; Material Design and Synthesis; Molecular Designing of Fine Particles Using Aerosol Synthesis; Size Effect of Dielectric Properties for Barium Titanate Particles and its Model Using Two Factors; Embedded Ceramic Passive on FR-4 Using Aerosol Deposition; Novel Routes to Ferroelectric Gadolinium Molybdenum Oxides; Preparation of High Dispersion TiO2 Powders by Chlorideprocess to Synthesize Ultra Fine Dielectric Powders; Two-Phase Ceramic Dielectrics Deposition and Single-Step Processing of YBCO Thick Films for Multilayered ElectronicsLaser Transferred Sol-Gel PZT Thin Films; Synthesis and Characterization of C-N Thin Films Deposited on Si (100)

Wafer by MPCVD; Novel Dielectric Crystals: Ternary Selenides; Aerosol  
 Deposition for Fabrication of High Speed Opticalmicro-Scanner;  
 Processing and Properties; The Effect of Processing, Tantalum-  
 Replacement, and Lanthanum-Doping on the Dielectric Properties of  
 Lead Magnesium Niobate-Lead Titanate Ceramics; Dielectric and  
 Magnetoelectric Properties of 1-X NBT - X BF Solid Solutions  
 The PTCR Effect of Donor-Doped Barium Titanate: Origin of the Surface  
 States at the Grain-BoundaryLead-Free Piezoelectric Ceramic Based on  
 (Bi<sub>1/2</sub>Na<sub>1/2</sub>)Ti<sub>3</sub>-(Bi<sub>1/2</sub>K<sub>1/2</sub>)TiO<sub>3</sub>-BaTiO<sub>3</sub> Solid Solution; Large  
 Spontaneous Polarizaion in Suprelattice-Structured Bismuth Layerd  
 Ferroelectric Crystals; Impact of SrRuO<sub>3</sub>/LaNiO<sub>3</sub> Doubly-Stacked  
 Bottom Electrode on the Characteristics of c-Axis-Oriented  
 CaBi<sub>4</sub>Ti<sub>4</sub>O<sub>15</sub> Films; Complex Permittivity of Calcium Copper Titanate  
 Ceramics with a Bimodal Grain Size Distribution; Dielectric and  
 Pyroelectric Behavior of (Ba<sub>1-x</sub>Sr<sub>x</sub>)TiO<sub>3</sub> Composites with Oxide  
 Additives  
 Effect of Porosity on the Electrical Properties of Y<sub>2</sub>O<sub>3</sub>-SrTiO<sub>3</sub> Internal  
 Boundary Layer CapacitorsIsotropic Optical Properties of Epitaxial PLZT  
 Thin Films; Characterization and Application of Pb[(Zn<sub>1/3</sub>Nb<sub>2/3</sub>)<sub>0.91</sub>  
 Ti<sub>0.09</sub>]O<sub>3</sub> Single Crystal with Giant Electromechanical Coupling Factor  
 k<sub>31</sub>; Dielectric Properties and Phase Transition In Sb/Mn and La/Mn  
 Codoped BaTiO<sub>3</sub> Ceramics; Processing and Properties of  
 Inorganic/Organic Dielectric Nanocomposites; Sintering Behavior of Ni-  
 Cu-Zn Ferrites for Multilayer Inductors  
 Process Variables, Dielectric Properties, and Microstructures of  
 Multilayer Ceramic Capacitors with Ni Internal ElectrodesApplications;  
 High Performance Barium Strontium Titanate Thin Film Capacitors for  
 Decoupling Applications; Wettability Considerations for Sub-Micron  
 Base Metal Electrodes in BaTiO<sub>3</sub> Multilayer Capacitors; Internal Stress  
 and Capacitance Aging of BME-MLCCS; Piezoceramic Thin-Film  
 Multilayer Resonators on Crystalline Dielectric Substrates  
 High Performance Thin Films for Microwave Phase Shifter Applications:  
 Device Requirements, Material Design, and Process Science  
 Considerations

## Sommario/riassunto

This proceedings contains papers presented at the Advanced Dielectric  
 Materials: Design, Preparation, Processing and Applications; and  
 Advanced Dielectrics for Wireless Communications symposia. Topics  
 include design of material, materials synthesis and processing,  
 processing-microstructure-property relationship, multilayer device  
 materials, thin and thick films, device applications, low temperature  
 co-fired ceramics (LTCC)for multilayer devices, microwave dielectric  
 materials and much more.

2. Record Nr.	UNISANNIOCFI0016744	
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