Record Nr. UNINA9910841250503321 Advances in dielectric materials and electronic devices [[electronic **Titolo** resource]]: proceedings of the 107th Annual Meeting of the American Ceramic Society: Baltimore, Maryland, USA (2005) // editors, K.M. Nair ... [et al.] Pubbl/distr/stampa Westerville, Ohio, : American Ceramic Society, c2006 **ISBN** 1-280-67368-0 9786613650610 1-118-40816-0 1-118-40817-9 Descrizione fisica 1 online resource (336 p.) Collana Ceramic transactions;; v. 174 Altri autori (Persone) NairK. M <1933-> (K. Manikantan) Disciplina 620.1/4047297 620.14047297 Ceramics - Electric properties Soggetti Electronic ceramics **Dielectrics - Materials** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia 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. Includes bibliographical references and index. Nota di bibliografia 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 Titnate 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)

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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.