Record Nr. UNINA9910820263203321 Advances and applications in electroceramics II / / edited by K.M. Nair, **Titolo** Shashank Priya Pubbl/distr/stampa Hoboken, N.J., : John Wiley & Sons [Westerville, Ohio], : American Ceramic Society, 2012 **ISBN** 9781118511350 1118511352 9781283735711 1283735717 9781118511367 1118511360 Edizione [1st ed.] Descrizione fisica 1 online resource (258 p.) Ceramic transactions, , 1042-1122;; v. 235 Collana Altri autori (Persone) NairK. M PriyaShashank Disciplina 621.381 Soggetti Electronic ceramics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia "This volume contains a collection of 25 papers from three symposia Note generali that were held during the 2011 Materials Science and Technology Conference (MS&T'11) held at ... Columbus, Ohio, USA, October 16-20, 2011."--Pref. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Advances and Applications in Electroceramics II: Contents: Preface: DIELECTRIC MATERIALS AND ELECTRONIC DEVICES; Dielectric II-VI and IV-VI Metal Chalcogenide Thin Films in Silver Coated Hollow Glass Waveguides (HGWS) for Infrared Spectroscopy and Laser Delivery: Dielectric Properties of Chemically Bonded Phosphate Ceramics Fabricated with Wollastonite Powders; Equivalent Circuit Modeling of Core-Shell Structured Ceramic Materials: Bi2Te3 and Bi2Te3-xSx for Thermoelectric Applications; Optimized Sputtering Parameters for ITO Thin Films of High Conductivity and Transparency Simulation of Enhanced Optical Transmission in Piezoelctric Materials Evolution of Microstructure Due to Additives and Processing: Comparison of the Electrical Behavior of AIN-on-Diamond and AIN-on-Si MIS Rectifying Structures: Effect of Nanocrystalline Diamond

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Sommario/riassunto

With contributed papers from the 2011 Materials Science & Technology symposia, this is a useful one-stop resource for understanding the most important issues in the advances and applications of electroceramics. Logically organized and carefully selected, the articles cover the themes of the symposia: Magnetoelectric Multiferroic Thin Films and Multilayers; Dielectric Ceramic Materials and Electronic Devices; and Multifunctional Oxide. An essential reference for government labs and academics in mechanical and chemical engineering, materials and or ceramics, and chemistry.