Record Nr. UNINA9910139607803321 Advances and applications in electroceramics [[electronic resource] /] / **Titolo** edited by K.M. Nair, Quanxi Jia, Shashank Priya Pubbl/distr/stampa Hoboken, N.J.,: Wiley, 2011 **ISBN** 1-283-24022-X 9786613240224 1-118-14447-3 1-118-14448-1 1-118-14445-7 Descrizione fisica 1 online resource (272 p.) Collana Ceramic transactions, , 1042-1122;; v. 226 Altri autori (Persone) NairK. M **JiaQuanxi** PriyaShashank Disciplina 620.14 621.381 Soggetti Electronic ceramics Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Advances and Applications in Electroceramics; Contents; Preface; DIELECTRIC MATERIALS AND ELECTRONIC DEVICES; Numerical Simulations of a Back Grinding Process for Silicon Wafers; Sol-Gel Processing of Single Phase BiFeO3 Ceramics: A Structural, Microstructural, Dielectric, and Ferroelectric Study; Electro Ceramic Properties of Porous Silicon Thin Films on P-Type Crystalline Silicon: Tape Cast Dielectric Composites Produced with Camphene as a Freezing Medium; Electronic Transfer between Low-Dimensional Nanosystems Combined Dilatometer-Mass Spectrometer Analysis of the Sintering of Barium TitanateEffect of DC Poling Field on Ferroelectric Properties in Alkali Bismuth Titanate Lead-Free Ceramics: Multifunctional Nature of Modified Iron Titanates and Their Potential Applications; Long-Term Convergence of Bulk- and Nano-Crystal Properties; Influence of

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Sommario/riassunto

This book contains 26 papers from the Magnetoelectric Multiferroic Thin Films and Multilayers; Dielectric Ceramic Materials and Electronic Devices; Recent Developments in High-Temperature Superconductivity; and Multifunctional Oxides symposia held during the 2010 Materials Science and Technology (MS&T'10) meeting, October 17-21, 2010, Houston, Texas. Topics include: Properties; Structures; Synthesis; Characterization; Device Applications; Multiferroics and Magnetoelectrics; YBCO Pinning Methods and Properties; YBCO Processing and Reliability Related Issues; New Superconductors and MgB2.