Record Nr. UNINA9910830288203321 Advances in multifunctional materials and systems [[electronic **Titolo** resource] ]: a collection of papers presented at the 8th Pacific Rim Conference on Ceramic and Glass Technology, May 31-June 5, 2009, Vancouver, British Columbia / / edited by Jun Akedo, Hitoshi Ohsata, Takeshi Shimada: volume editor, Mrityunjay Singh Hoboken, N.J., : Wiley, c2010 Pubbl/distr/stampa **ISBN** 1-282-77359-3 9786612773594 0-470-90985-4 0-470-90984-6 Descrizione fisica 1 online resource (190 p.) Collana Ceramic transactions;; v. 216 Altri autori (Persone) AkedoJun OhsatoHitoshi ShimadaTakeshi SinghM (Mrityunjay) Disciplina 666 Soggetti Electronic ceramics Microwave devices Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia "American Ceramic Society." Note generali Nota di bibliografia Includes bibliographical references and author index. Nota di contenuto Advances in Multifunctional Materials and Systems; Contents; Preface; Introduction; ELECTROCERAMICS; Nanostructured Ceramics of Perovskite Morphotropic Phase Boundary Materials; Transformation of Current Limiting Effect into Varistor Effect in Tin Dioxide Based Ceramics; Fabrication of MoSi2-Si-Composite Thin Films for Oxidation-Resistant Thin-Film Heaters; Influence of Interface on Tunability in Barium Strontium Titanate; Recent Progress in Multilayer Ceramic **Devices** Effect of Mn2O3 Addition on the Microstructure and Electrical Properties of Lead-Free Ba(Sn0.02Ti0.98)O3-(Na0.5K0.5)NbO3 CeramicsElectronic Properties of BaTiO3 Containing Glass Ceramics; Development of (100) Three-Axis-Oriented Single Crystal (Ba0.7Sr0.3)

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## Sommario/riassunto

The symposia Advances in Electroceramics and Microwave Materials and Their Applications were held during the 8th Pacific Rim Conference on Ceramic and Glass Technology (PACRIM 8) from May 31-June 5, 2009 in Vancouver, Canada. This issue contains 17 peer-reviewed papers (invited and contributed) from these two symposia. The book is logically organized and carefully selected articles give insight into multifunctional materials and systems and incorporates the latest developments related to multifunctional materials and systems including electroceramics and microwave materials.