

1. Record Nr.	UNINA9910813924903321
Titolo	Advances in electrical and magnetic ceramics : 12th International Ceramics Congress, Part F : proceedings of the 12th International Ceramics Congress, part of CIMTEC 2010--12th International Ceramics Congress and 5th Forum on New Materials, Montecatini Terme, Italy, June 6-11, 2010 // edited by Pietro Vincenzini ; co-edited by Vojislav V. Mitic, Alois Loidl, Dino Fiorani
Pubbl/distr/stampa	Stafa-Zuerich ; ; Enfield, NH : , : Trans Tech Publishing Limited, on behalf of Techna Group, , [2010] ©2010
ISBN	3-03813-424-4
Descrizione fisica	1 online resource (230 p.)
Collana	Advances in science and technology, , 1661-819X ; ; volume 67
Altri autori (Persone)	VincenziniP. <1939-> MiticVojislav V LoidlAlois FioraniD
Disciplina	620.1/404297
Soggetti	Electronic ceramics Ceramic materials - Magnetic properties
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 indexes.
Nota di contenuto	; Machine generated contents note: ; Section I Electrical and Magnetic Ceramics -- ; I-1. Dielectric and Microwave Materials -- Miniature Ceramic Antennas for Wireless Applications / Z.D. Milosavljevic -- Electric Field Breakdown of Polymer Based Nano-Composite at Room and Cryogenic Temperatures / S.L. Ranner -- High Performance Varactor / A. Testino -- Influence of the Annealing on the Thermal Stability of Ge-Sb-Te Materials for Recording Devices / A. Sherchenkov -- Preparation and Characterization of Dielectric Behavior of A ₂ /3Cu ₃ Ti ₄ O ₁₂ (A = Nd, Sm, Gd, Dy) Ceramics / J. Kulawik -- ; I-2. Ferroelectrics, Piezoelectrics -- Effect of DC Poling Field on Domain Behavior in Lead-Free Piezoelectric Ceramics / T. Tsukada -- Fractal Geometry and Properties of Doped BaTiO ₃ Ceramics / L. Zivkovic -- Integrated ZnO Film Based Acoustic Wave Microfluidics and Biosensors

/ W.I. Milne -- Diffuse Phase Transition and Ferroelectric Properties of Ceramic Solid Solutions in New SrTiO₃-BiScO₃ System / V. Sirota -- Piezoelectric Thin Film Devices / P. Muralt -- ; I-3. Magnetic Ceramics -- Magnetostrictive Galfenol Torque Sensor Devices for Smart by-Wire Steering System in Automobile Technology / M. Shimada -- Fe₃O₄ Epitaxial Thin Films and Heterostructures: Magnetotransport and Magnetic Properties / M.R. Ibarra -- Oriented Barium Hexaferrite Thick Films Prepared by Electrophoretic Deposition in a Magnetic Field / M. Drofenik -- Magnetoelectric Coupling in Multi-Ferro Fe-Pd/PZT/Fe-Pd Laminate Composites / C. Saito -- Magnetic Properties and High Frequency Response of Single-Phase Z-Type Strontium Cobalt Hexaferrite Prepared by Polymerizable Complex Method / Y. Ikeda -- Effects of the Co-Presence of Conflicting Magnetic Anisotropy in Ba Ferrite Particles / G. Bottoni -- In Situ Measurement of Phase Transition of Layered Perovskite BaLn₂Mn₂O₇ / N. Kamegashira -- Simplified Method of Measuring Magnetic Permeability Temperature Profile for RF Device Applications / T. Takeo -- ; I-4. Varistors and Thermistors -- NTC Ceramics: Past, Present and Future / K. Reichmann -- Electrical Properties of Nb-Doped and Nb-Mn-Codoped BaTiO₃-(Bi_{0.5}Na_{0.5})TiO₃ Lead-Free PTCR Ceramics / R.Q. Chu -- Magnetic Properties of Cobalt and Manganese Oxide Spinel Ceramics / A. Rousset -- ; I-5. Multiferroics -- Spin Flexoelectricity and New Aspects of Micromagnetism / A.S. Logginov -- Microstructure, Magnetic and Dielectric Properties of CoFe₂O₄-Pb(Fe_{1/2}Ta_{1/2})O₃-PbTiO₃ Composites / D. Szwagierczak -- Synthesis of Bi₆Fe₂Ti₃O₁₈ Aurivillius Phase by Wet Chemical Methods / J. Polnar -- Magnetic Properties of the Bi₆Fe₂Ti₃O₁₈ Aurivillius Phase Prepared by Hydrothermal Method / C. Kapusta -- Dielectric Behavior of YMnO₃ Epitaxial Thin Film at around Magnetic Phase Transition Temperature / N. Fujimura -- ; Section II Magnetic and Transport Properties of Oxides -- Coexistence of Superconductivity and Magnetism in Ruthenocuprates / C. Noce -- Spin Manipulation in Co-Doped ZnO / H. Schmidt -- Manipulating Electronic Structure by Laser Pump-Photoemission Probe in Oxides / T. Mizokawa -- Electron Spin Resonance of Nickelate / R.A. Souza -- Electrical and Magnetic Properties of Polycrystalline Mn-Doped BaTiO₃ Thin Films Grown on Pt/Sapphire Substrates by Pulsed Laser Deposition / H. Schmidt.

Sommario/riassunto

The 31 peer-reviewed papers collected here together offer a plenitude of up-to-date information on "Advances in Electrical and Magnetic Ceramics". The papers are conveniently arranged into ELECTRICAL AND MAGNETIC CERAMICS, Dielectric and Microwave Materials, Ferroelectrics, Piezoelectrics, Magnetic Ceramics, Varistors and Thermistors, Multiferroics, MAGNETIC AND TRANSPORT PROPERTIES OF OXIDES. This special volume has also been published online in the series, "Advances in Science and Technology" Vol. 67 via www.scientific.net. Review from Book News Inc.: This sixth (Part F) of ten volumes o
