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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-(Bi0.5Na0.5) 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(Fe1/2Ta1/2)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

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