

Table of Contents

Editors Note

Multiferroic Memory: A Disruptive Technology or Future Technology? A. Kumar, N. Ortega, S. Dussan, S. Kumari, D. Sanchez, J. Scott and R. Katiyar	1
Combining Magnetism and Ferroelectricity towards Multiferroicity D. Shukla, N.E. Rajeevan and R. Kumar	15
Disordered Multiferroics W. Kleemann	41
Intrinsic Free Electrons/Holes at Polarization Discontinuities and their Implications for Basics of Ferroelectricity and its Origin Y. Watanabe	57
Molecular Spintronics J.V. Yakhmi and V. Bambole	95
Electromechanical Resonance in Magnetoelectric Composites: Direct and Inverse Effect M.I. Bichurin, V.M. Petrov, R.V. Petrov and S. Priya	129
Recent Applications of Landau-Ginzburg Theory to Ferroelectric Superlattices: A Review K.H. Chew	145
Theoretical Study on the Phase Transition and the H/D Isotope Effect of Squaric Acid T. Ishimoto and M. Tachikawa	169
Fabrication and Study of Hot Pressed $\text{Co}_{0.6}\text{Zn}_{0.4}\text{Fe}_2\text{O}_4$-PVDF $\text{PbTi}_{0.7}\text{Zr}_{0.3}\text{O}_3$ and $\text{Co}_{0.6}\text{Zn}_{0.4}\text{Fe}_2\text{O}_4$-PVDF-$\text{BaTi}_{0.7}\text{Zr}_{0.3}\text{O}_3$ Multiferroic Composite Films K.L. Yadav and A. Kumar	179
Ferromagnetic Shape Memory Heusler Alloys V. Srivastava and K.P. Bhatti	189
Y-Type Hexaferrites: Structural, Dielectric and Magnetic Properties R.B. Jotania and H.S. Virk	209
Dielectric Relaxation Phenomena in some Lead and Non-Lead Based Ferroelectric Relaxor Materials: Recent Advances P.K. Bajpai	233