Materials Research Society Symposium Proceedings - Engineered Multiferroics-Magnetoelectric Interactions, Sensors, and Devices

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Abstract: The proceedings contain 9 papers. The topics discussed include: ultraviolet photoconductivity of pure and Al doped ZnO thin films by inkjet printing; development of novel multiferroic composites based on BaTiO3 and hexagonal ferrites; growth of ZnO:Mn/ZnO:V heterostructures and ferroelectric ferromagnetic characterization; emerging technologies and opportunities based on the magneto-electric effect in multiferroic composites; competing magnetic interactions in magnetoelectric YbMnO3; evidence of magnetoelectric coupling in Pb(Fe0.5Nb0.5)03 ceramics through impedance spectroscopy, electromechanical resonance, and standard hysteresis measurements; and flexible ceramic-polymer composite substrates with spatially variable dielectrics for miniaturized RF applications.

Year: 2009
Source title: Materials Research Society Symposium Proceedings
Volume: 1161
Page count: 68
Link: Scorpus Link
Document Type: Conference Review
Source: Scopus

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