

Emerging technologies and opportunities based on the magneto-electric effect in multiferroic composites

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Abstract: Multiferroic materials are recognized today as one of the new emerging technologies with huge potential for both academic research and commercial developments. Multiferroic composites are in particular more attractive for studies due to their enhanced properties, especially at room temperature, in comparison to the single-phase multiferroics. In this paper, we examine some of the theoretical aspects regarding one type of multiferroic composites (laminated structures) and we discuss one of the many possible applications of these exciting structures. We highlight the main advantages composite systems have over single-phase multiferroics and the similarities that exist between them. © 2009 Materials Research Society.

Year: 2009

Source title: Materials Research Society Symposium Proceedings

Volume: 1161

Page : 25-36

Link: [Scopus Link](#)

Document Type: Conference Paper

Source: Scopus

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