

Ferroelectrics >

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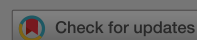
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Original Articles

Structural and magnetic studies of (Ni_{0.5} M_{0.5} Fe₂O₄) where M = Zn, Cu

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ABSTRACT

(Ni_{0.5} M_{0.5} Fe₂O₄) where M = Zn and Cu doped ferrite nano-particles are synthesized by Sol-Gel Auto combustion method. The nano-sized Zn, Cu and Ni doped ferrite characterized by XRD. The lattice constant was found to be $a = 8.38 \text{ \AA}$ and 8.41 \AA . It is understood that the lattice parameters increase for Cu as compared to Zn contents. The magnetic properties were determined by using VSM, the saturation magnetization was found to be 24 emu/g and 17 emu/g, respectively, and the remnant magnetization was found to be 1.2 emu/g and 0.8 emu/g, respectively. The coercivity of the investigated samples was found to be 1.2 kOe and 0.8 kOe, respectively.

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