









ABSTRACT

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 $(Ni_{0.5} M_{0.5} Fe_2O_4)$ 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 A⁰ and 8.41 A⁰. 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 34 emu/g and 17 emu/g, respectively, and the remnant magnetization was found to be highly depended upon the cation distribution and crystallinity of the investigated ferrite.

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