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The study of crystal and magnetic structure of MgFe_2O_4 ferrite

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MgFe_2O_4 ferrites have been synthesized using solid reaction method. Crystal and magnetic structure studied by in-situ High-Resolution Fourier Diffractometer at the various annealing temperature. MgFe_2O_4 sample exhibits cubic (space group $\text{Fd}\bar{3}\text{m}$), partly inverse spinel and ferromagnetic structure at room temperature and it were stable up to $T = 753 \text{ K}$.

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