Electronic Supplementary Material (ESI) for New Journal of Chemistry.

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## Electronic supplemental information ESI – I

X-ray diffraction patterns taken before and after the second stage of heating at  $500^{\circ}$ C for  $2\frac{1}{2}$  hours of the MgFe<sub>2</sub>O<sub>4</sub> sample (i.e., x = 0.0), indicating the complete removal of unreacted traces of poly-vinyl alcohol used in the synthesis of the samples.

Title: Defects-focused analysis of calcium-substitution-induced structural

transformation of magnesium ferrite nanocrystals

Authors: Ann Rose Abraham, B. Raneesh, D. Sanyal, Sabu Thomas,

Nandakumar Kalarikkal and P.M.G. Nambissan

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