**Electronic supplemental information ESI – I**

X-ray diffraction patterns taken before and after the second stage of heating at 500°C for 2½ hours of the MgFe₂O₄ sample (i.e., x = 0.0), indicating the complete removal of unreacted traces of poly-vinyl alcohol used in the synthesis of the samples.

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**Authors:** Ann Rose Abraham, B. Raneesh, D. Sanyal, Sabu Thomas, Nandakumar Kalarikkal and P.M.G. Nambissan

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