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Development of $BiFeO_3/MnFe_2O_4$ Ferrite Nanocomposite for Enhanced Magnetic and Electrical Properties

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Figure S1. Raman Analysis

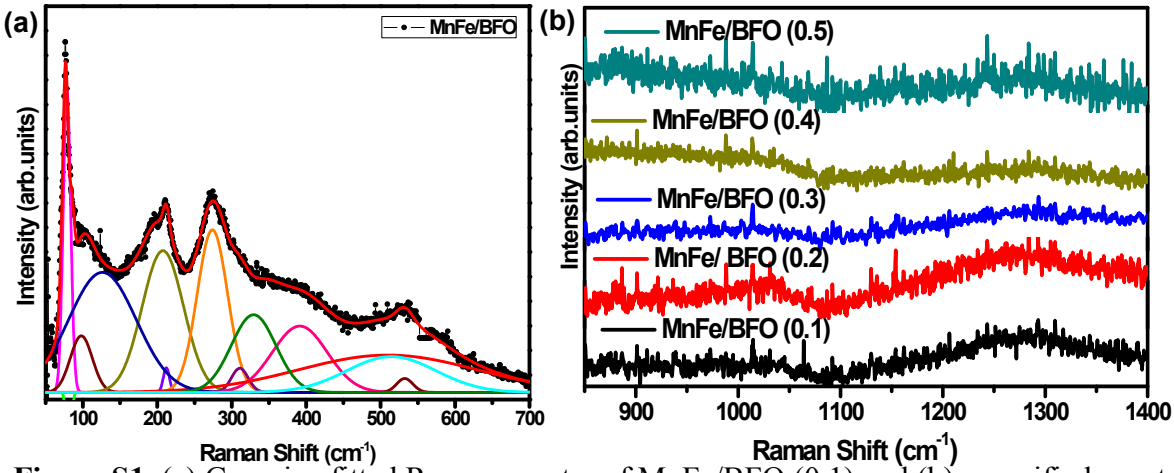

Figure S1. (a) Gaussian fitted Raman spectra of MnFe/BFO (0.1) and (b) magnified spectra showing higher phonon modes for MnFe/BFO (0.1-0.5).

Figure S2: SEM -EDAX Analysis

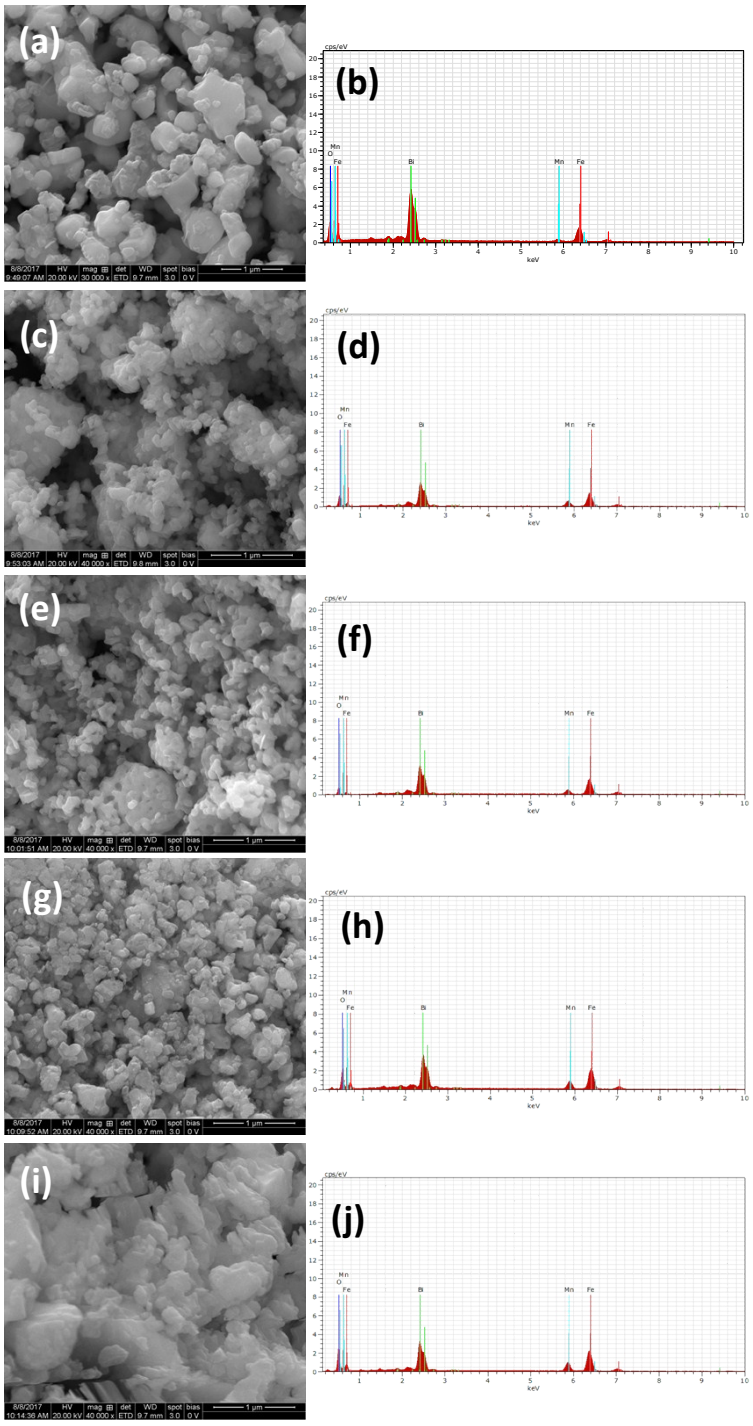

Figure S2. FESEM images and corresponding EDAX spectra of (1-x)$BiFeO_3$/$xMnFe_2O_4$ nanocomposites with x = 0.10, 0.20, 0.30, 0.40 and 0.50.

Figure S3. Magnetic hysteresis loop

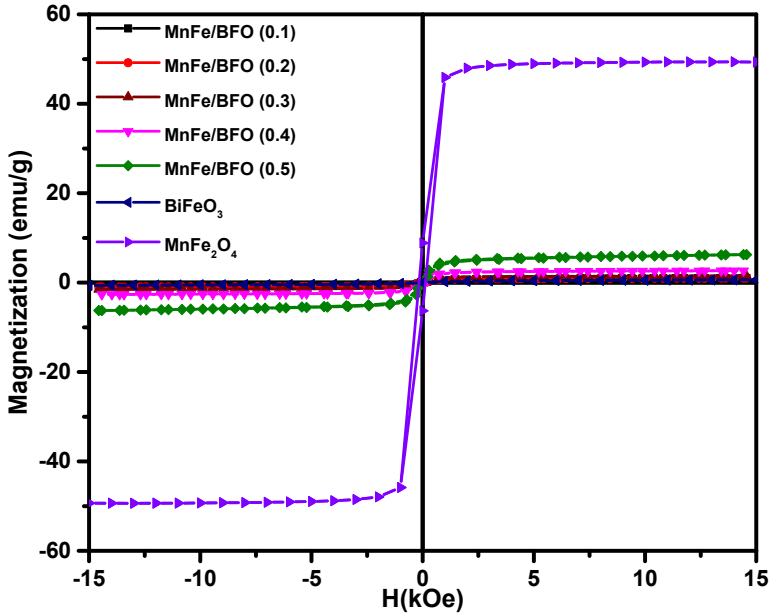

Figure S3. Room temperature magnetic hysteresis loop for $BiFeO_3$, $MnFe_2O_4$ and (1-*x*)$BiFeO_3$/*x*$MnFe_2O_4$ nanocomposites with x = 0.10, 0.20, 0.30, 0.40 and 0.50.