

Supplimentary Information

Nanoengineered Fe₃O₄-GO Nanoscrolls: Exploring the Biofunctional Applications through Magnetic, Optical, Structural, and Morphological Analyses

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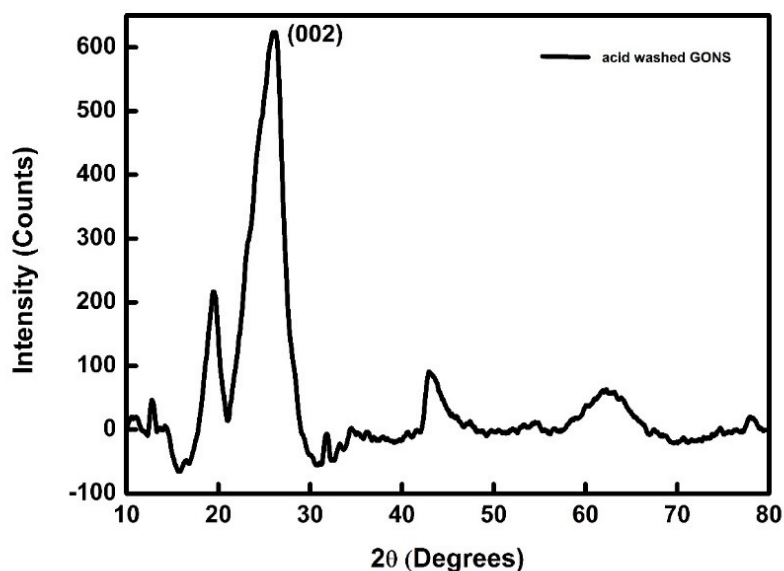


Figure S1 : XRD pattern of acid washed samples

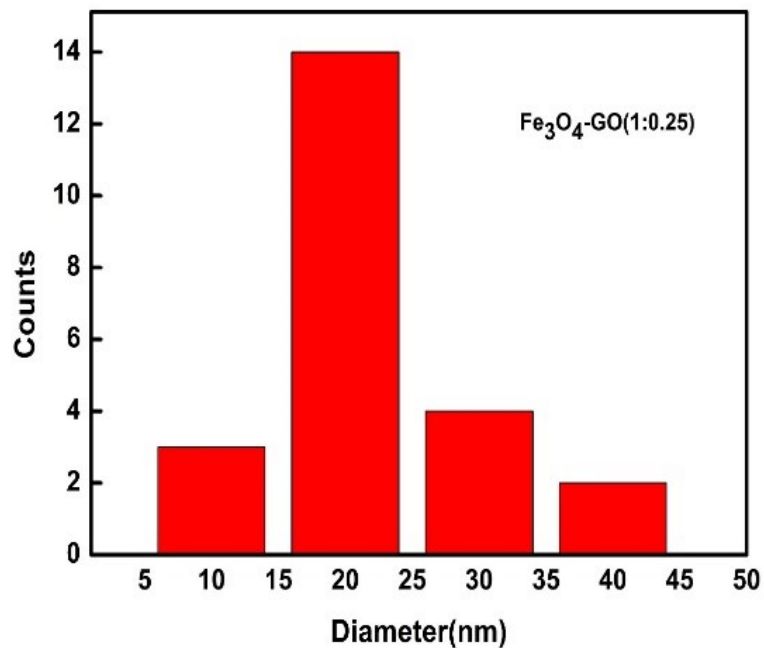


Figure S2 : Histogram representing diameter of nanoscroll.

Sample	M_S (emu/gm)	M_r (emu/gm)	Squareness Ratio (M_r/ M_S)	Coercivity (Oe)
Fe₃O₄	59.0 (± 0.6)	0.220 ($\pm 2 \times 10^{-4}$)	0.0037	3.95 (± 0.040)
FGO 0.25	54.4 (± 0.5)	0.072 ($\pm 7 \times 10^{-4}$)	0.0013	1.56 (± 0.010)
FGO 0.5	37.0 (± 0.3)	0.013 ($\pm 1 \times 10^{-4}$)	0.0003	0.33 (± 0.003)
FGO 0.75	28.2 (± 0.2)	0.006 ($\pm 0.06 \times 10^{-4}$)	0.0002	0.08 (± 0.001)
FGO 1	14.0 (± 0.1)	0.012 ($\pm 1 \times 10^{-4}$)	0.0008	0.61 (± 0.006)

Table S1 : Summary of magnetic behaviour of Fe₃O₄-GONS