

Supporting Information

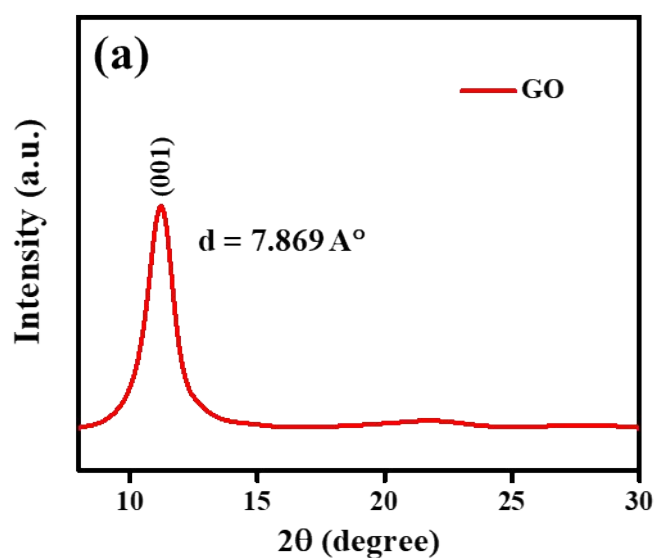


Fig S1. The XRD diffractogram of graphene oxide with the calculated lattice spacing.

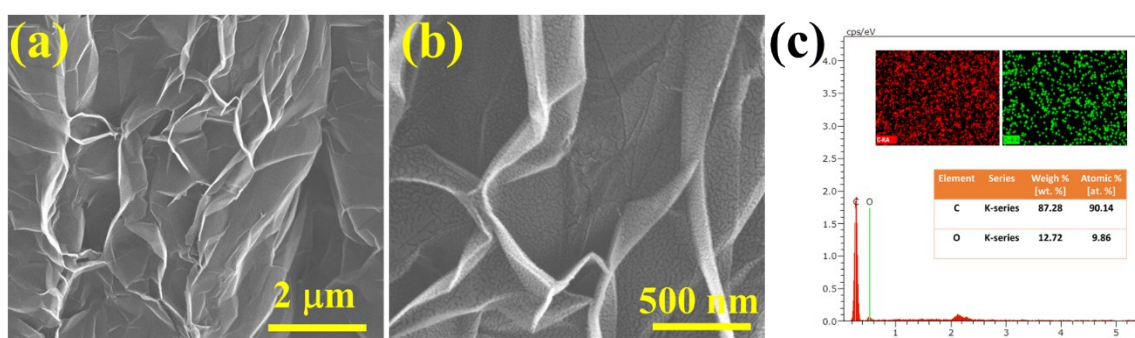


Fig S2. (a-b) FESEM image of graphene oxide (GO) at different magnifications. (c) EDX spectra of Graphene oxide (Inset representing the corresponding mapping and elemental analysis based on weight % of elements present).

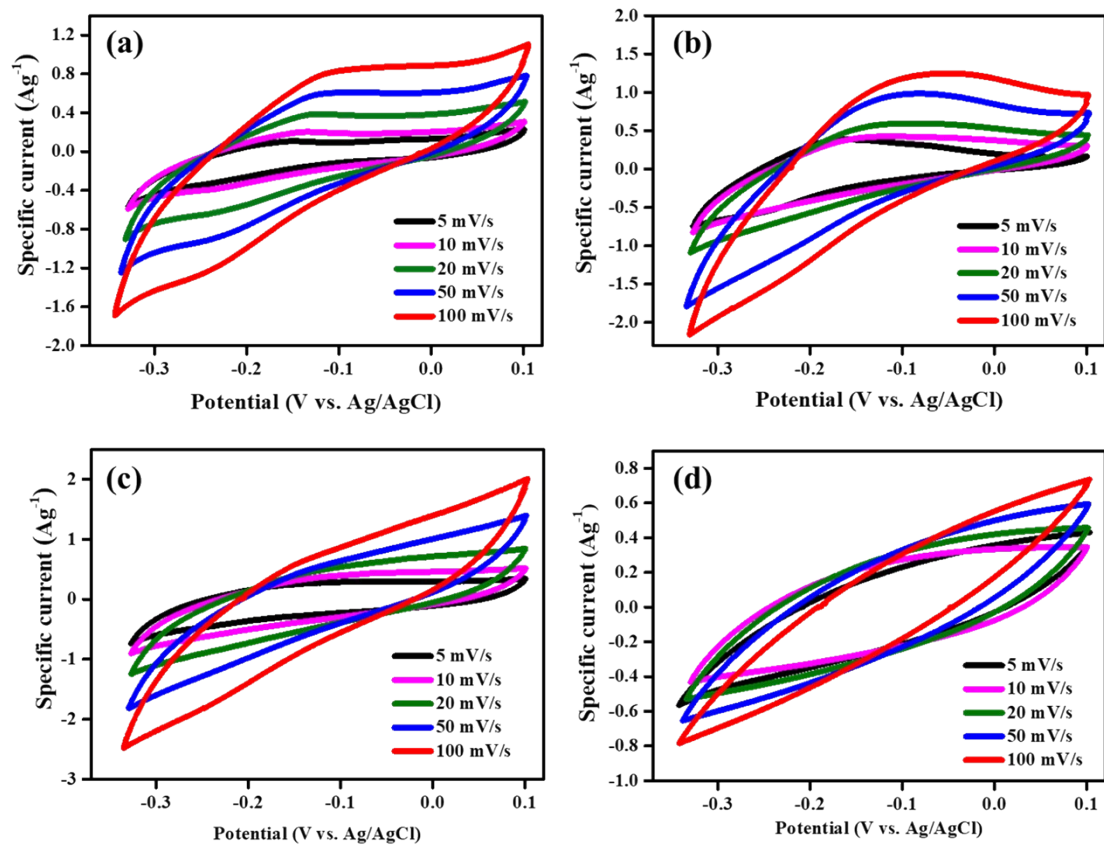


Fig S3. Cyclic voltammograms of (a) MnFe₂O₄ nanoparticles, (b) MnFe₂O₄ nanoneedles, (c) MnFe₂O₄/rGO nanoparticles and (d) Graphene oxide at various scan rates extending from 5-100 mVs⁻¹.

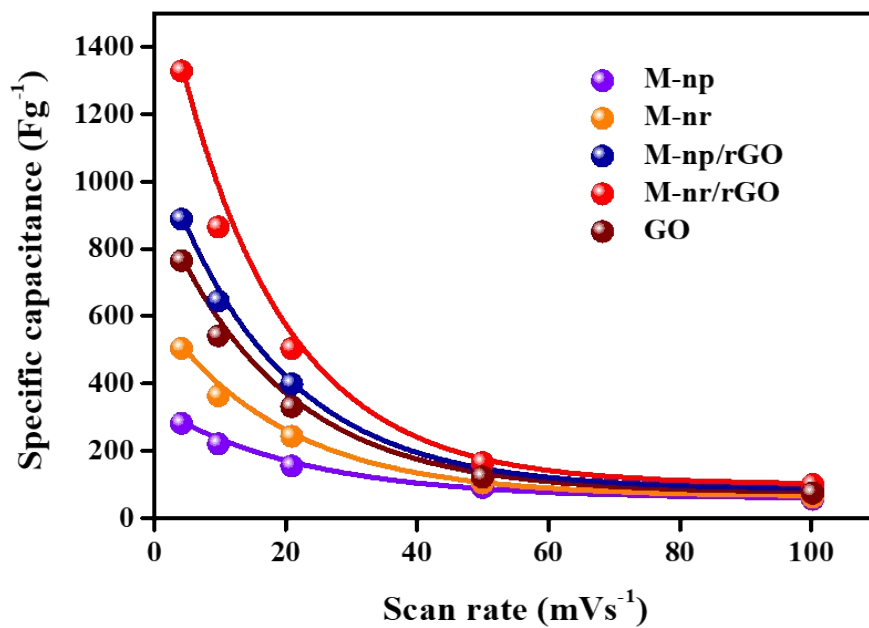


Fig S4. The Specific capacitance calculated from cyclic voltammograms of all the samples at different scan rates.

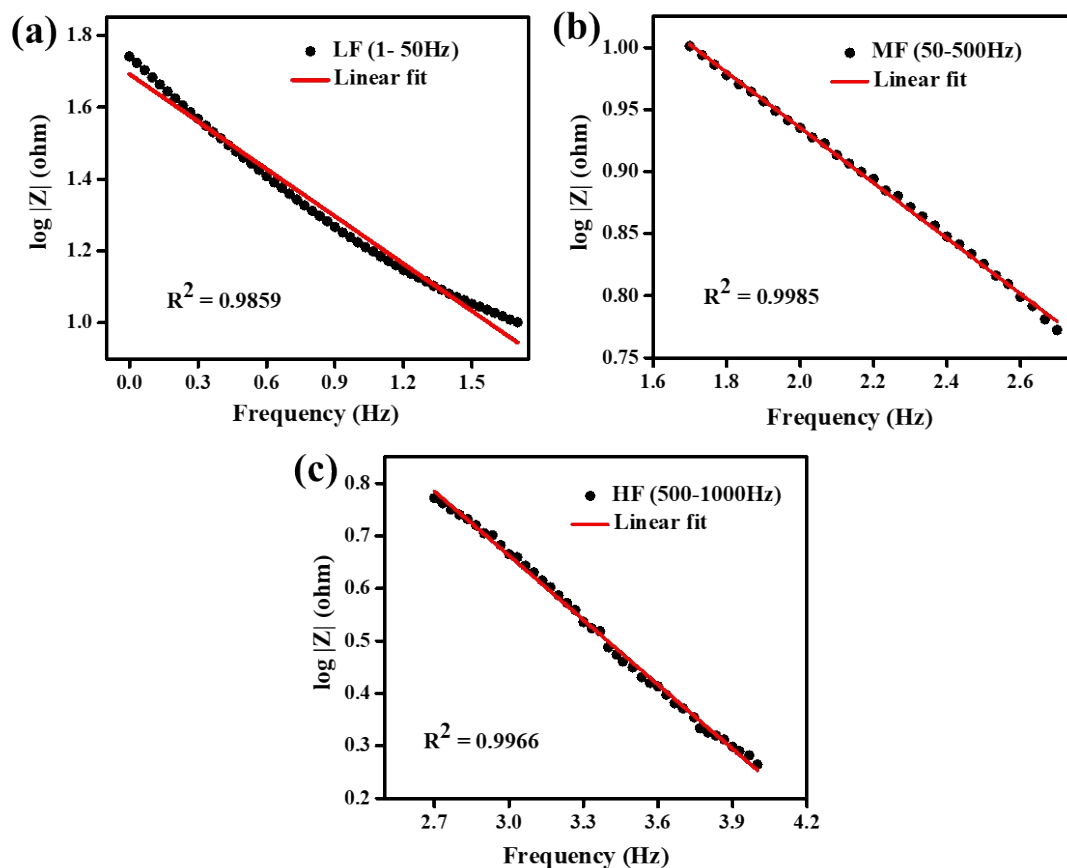


Fig S5. The slope of Impedance Bode plot of M-nr/rGO nanocomposite at (a) Low frequency region, (b) Mid frequency region, (c) High frequency region.

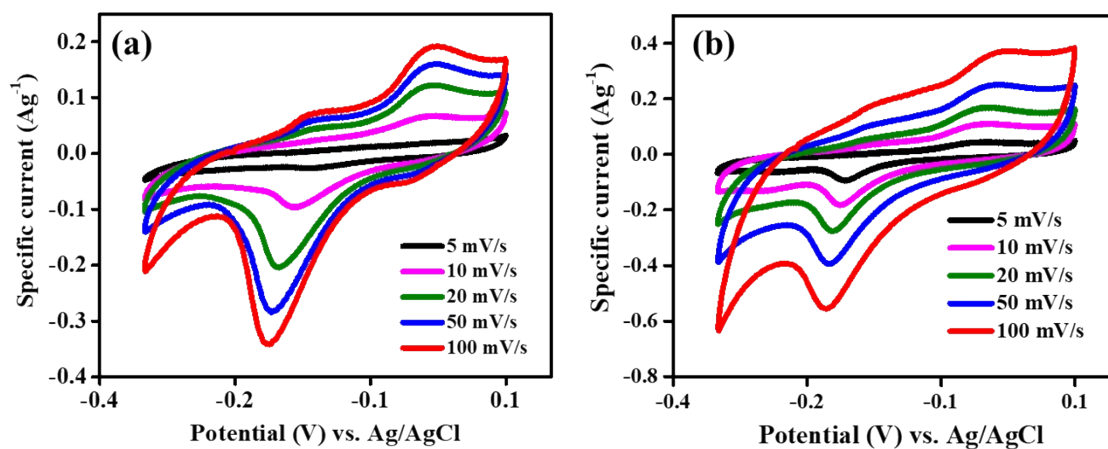


Fig S6. The cyclic voltammograms of (a) MnFe₂O₄/rGO nanoparticles and (b) MnFe₂O₄/rGO nanoneedles deposited on Cu substrate recorded at various scan rates from 5-100 mVs⁻¹.