

Electronic Supplementary Information

One-pot environmentally friendly amino acid mediated synthesis of N-doped graphene-silver nanocomposites with an enhanced multifunctional behavior

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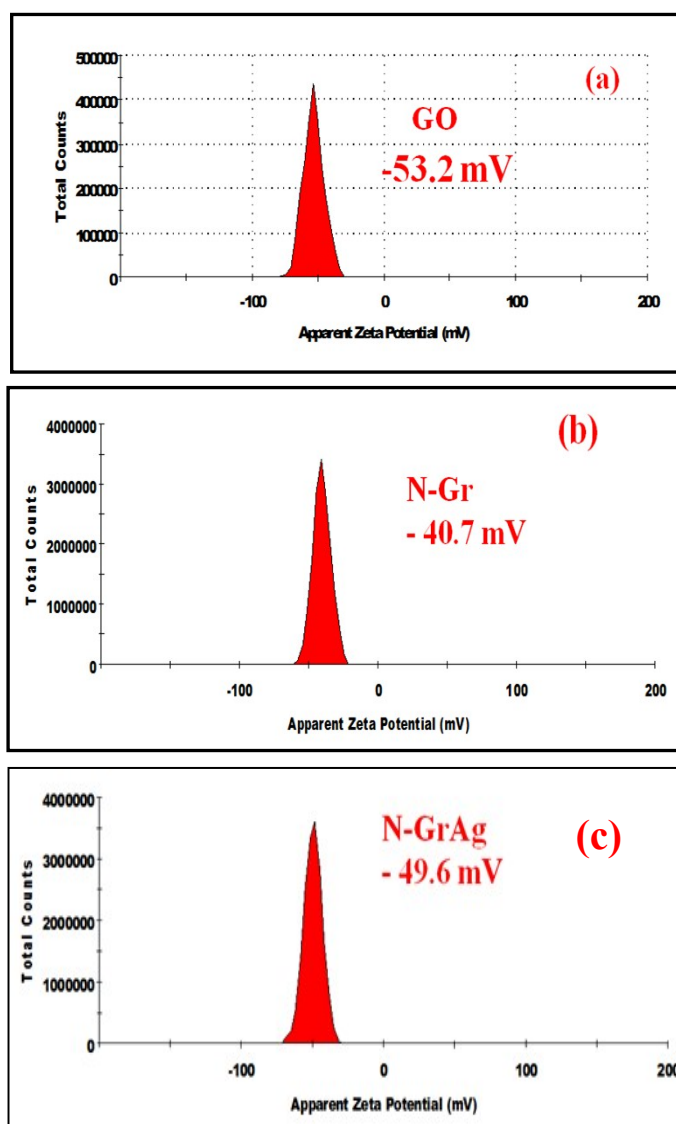


Fig. S1: ζ -potentials of GO (a), N-Gr (b) and N-GrAg (c) in aqueous medium.

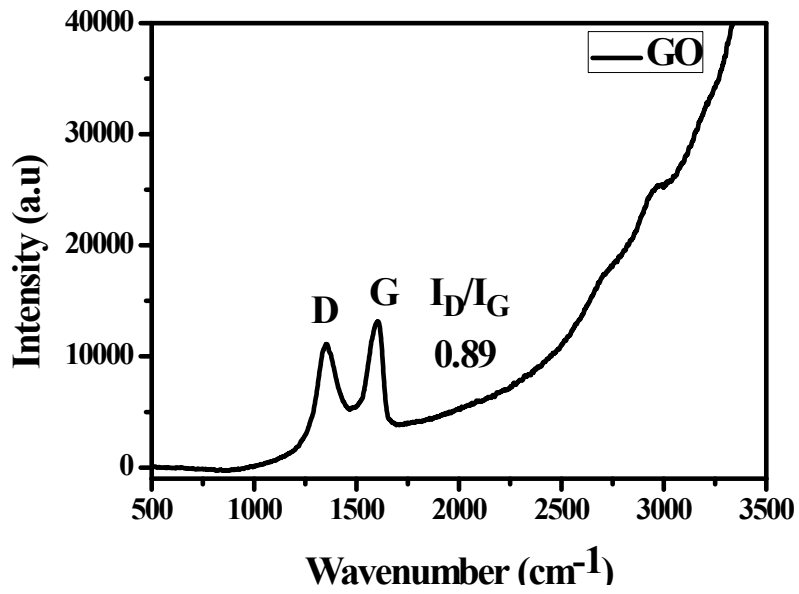


Fig. S2: Raman spectrum of GO.

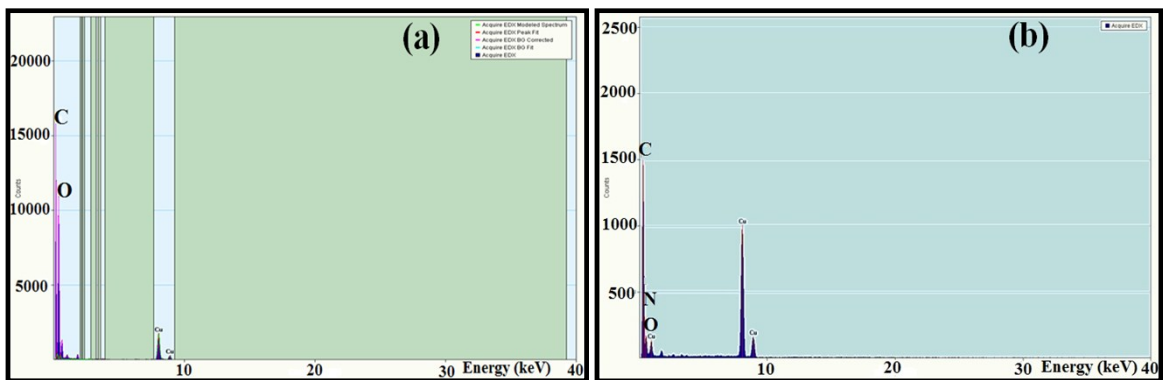


Fig. S3: EDAX spectra of GO (a) and N-Gr (b).

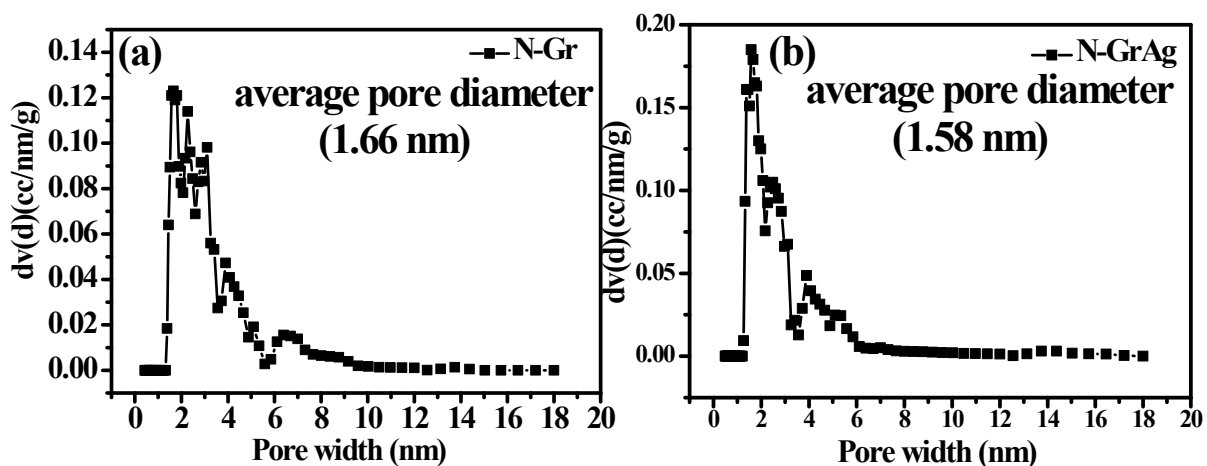


Fig. S4: Average pore diameter of N-Gr (a) and N-GrAg (b).

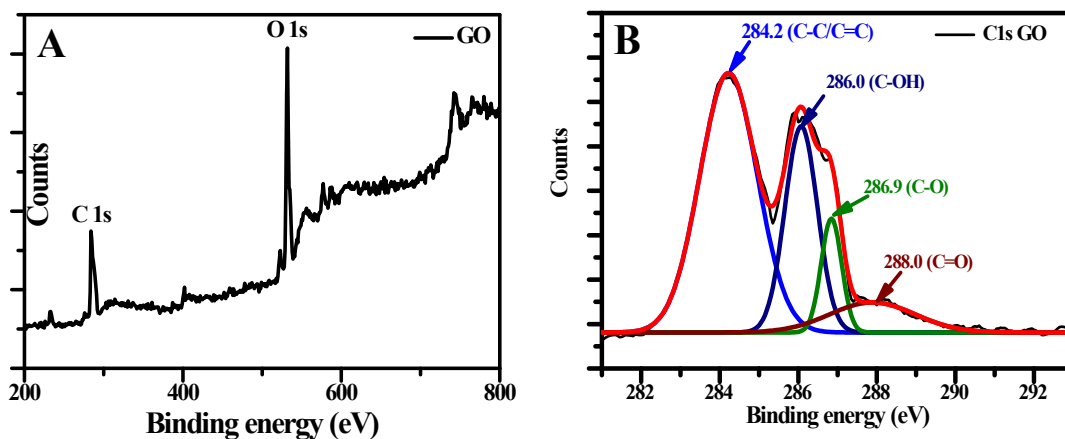


Fig. S5: XPS survey scan of GO – (panel A) and its high resolution C 1s spectrum – (panel B).

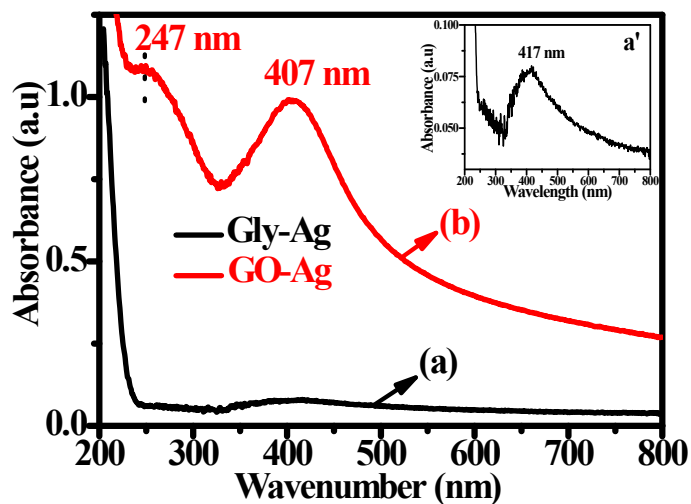


Fig. S6: Optical absorption spectra of GO-Ag (a) and Gly-Ag (b). The optical absorption spectrum of Gly-Ag in the magnified absorbance range (b').

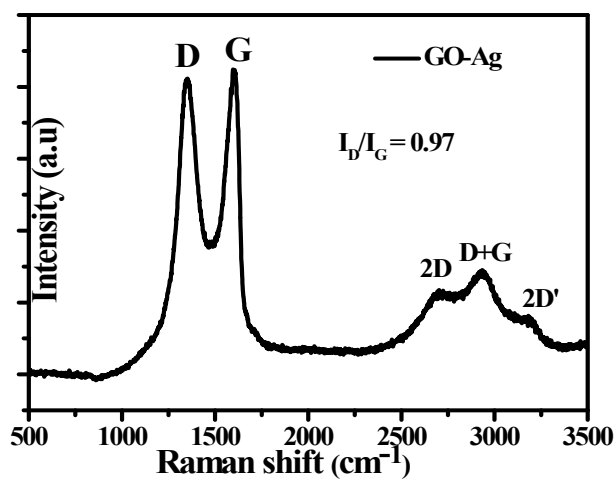


Fig. S7: Raman spectrum of GO-Ag.

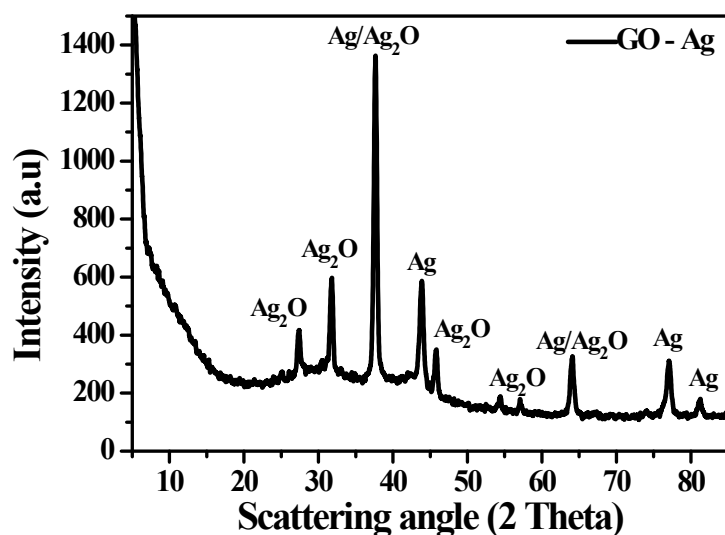


Fig. S8: XRD spectrum of GO-Ag.

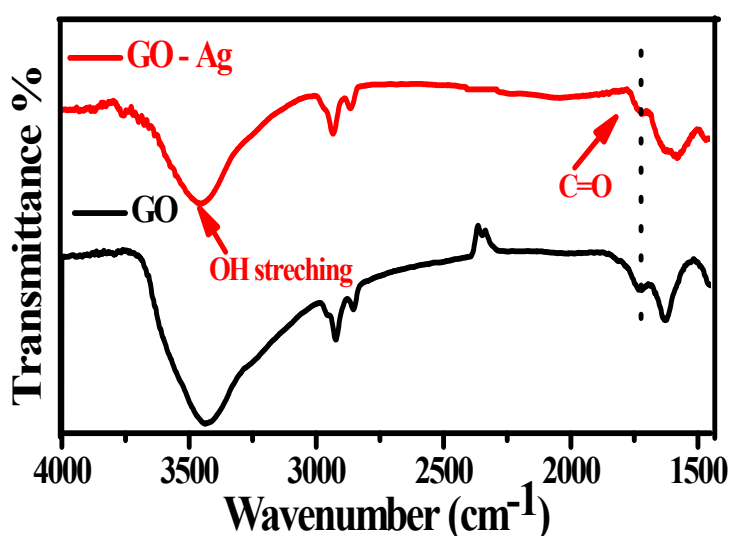


Fig. S9: IR spectra of GO and GO-Ag.

Table S1: Raman spectral data of GO, N-Gr and N-GrAg

Sample(s)	D band (cm ⁻¹)	G band (cm ⁻¹)	I _D /I _G
GO	1354	1605	0.89
N-Gr	1349	1604 (D' 1623)	1.00
N-GrAg	1351	1606 (D' 1623)	1.03