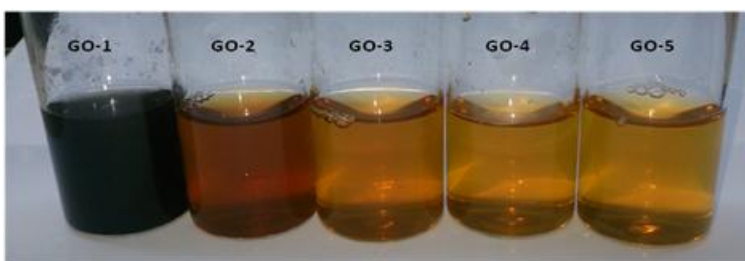


## Impact of the Degree of Functionalization of Graphene oxide on the Electrochemical Charge Storage Property and Metal ion Adsorption

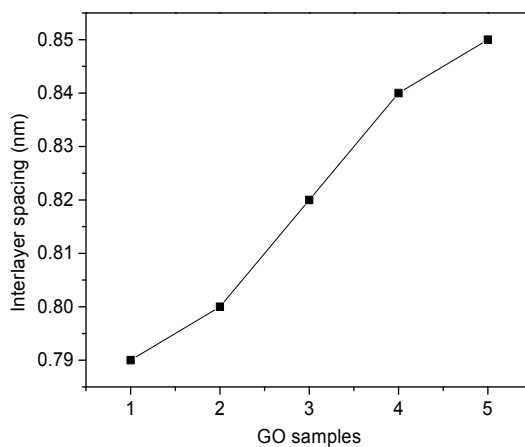
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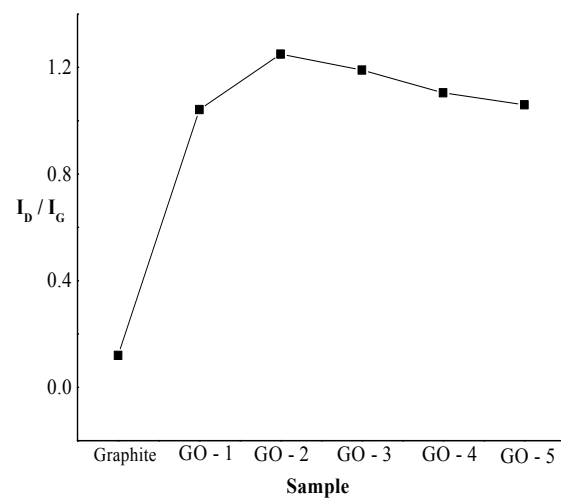
### †Electronic Supplementary Information (ESI)



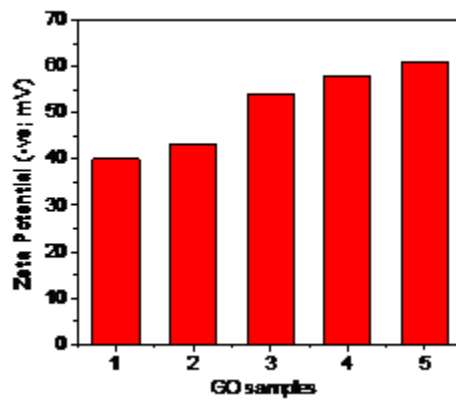
**Fig. S1** Pictorial presentation of the GO samples prepared



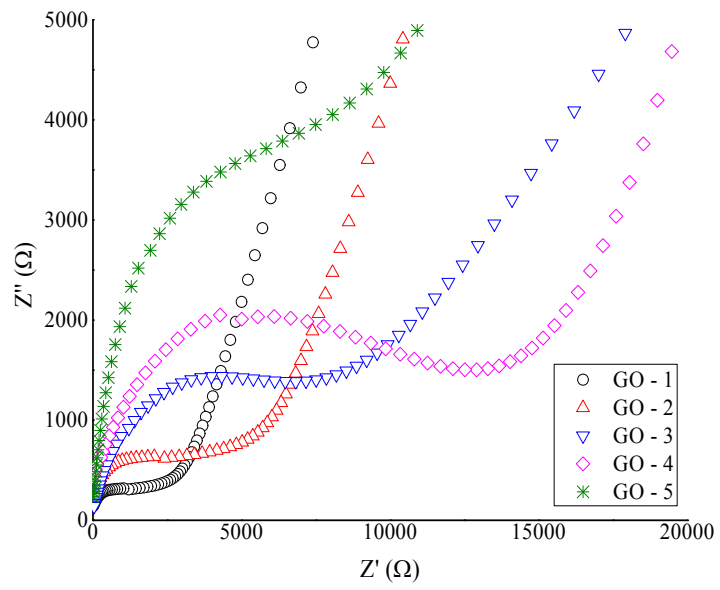
**Fig. S2** Interlayer spacing for GO samples with different degrees of oxidation.



**Fig. S3** Plot  $I_D/I_G$  ratio for graphite and different GO samples (GO-1 to GO-5).



**Fig. S4** Plot of zeta potential vs. samples with different oxidation levels



**Fig. S5:** Impedance vs frequency plot of GO1, GO-2, GO-3, GO-4 and GO-5 samples.