Supporting information

Hydroxyapatite conjugated Graphene Oxide nanocomposite: A new sight for significant application in adsorption

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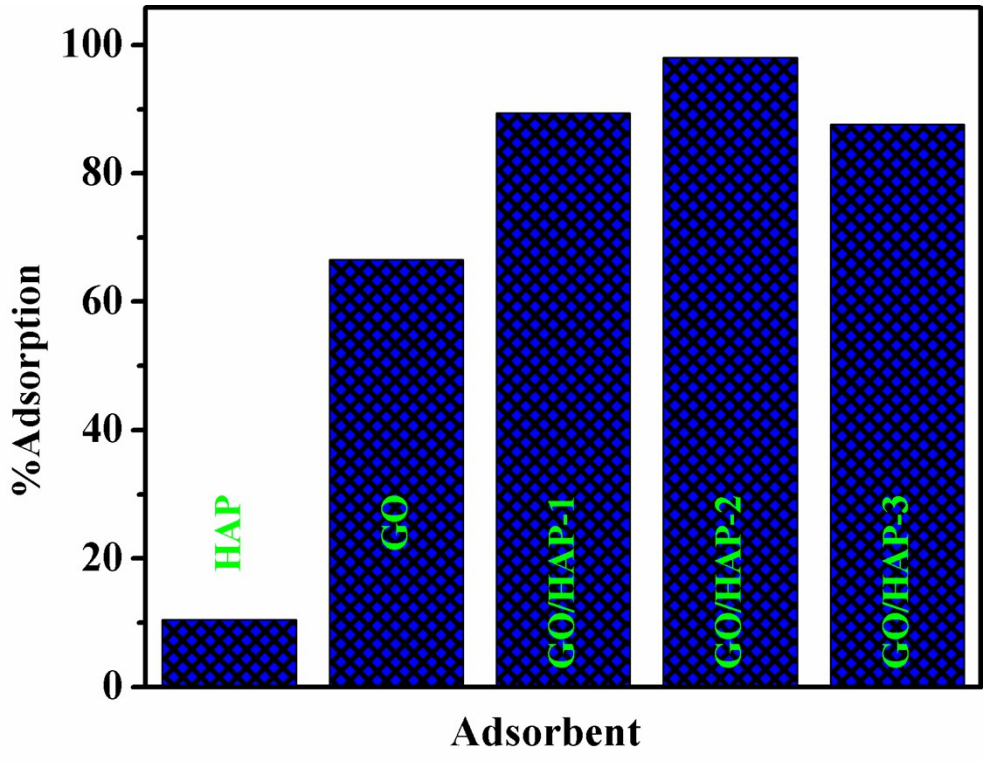

Fig. S1 Comparison among different adsorbents.

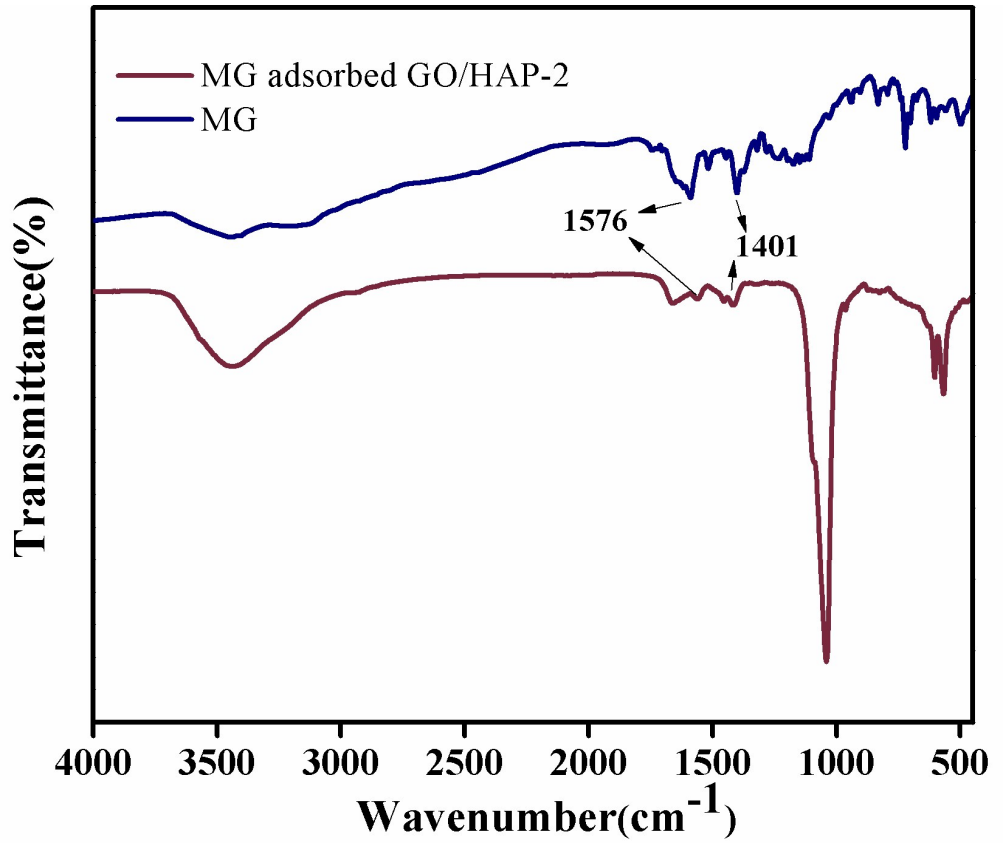

Fig. S2 Transmission FTIR spectra of MG and MG adsorbed GO/HAP-2 nanocomposite.

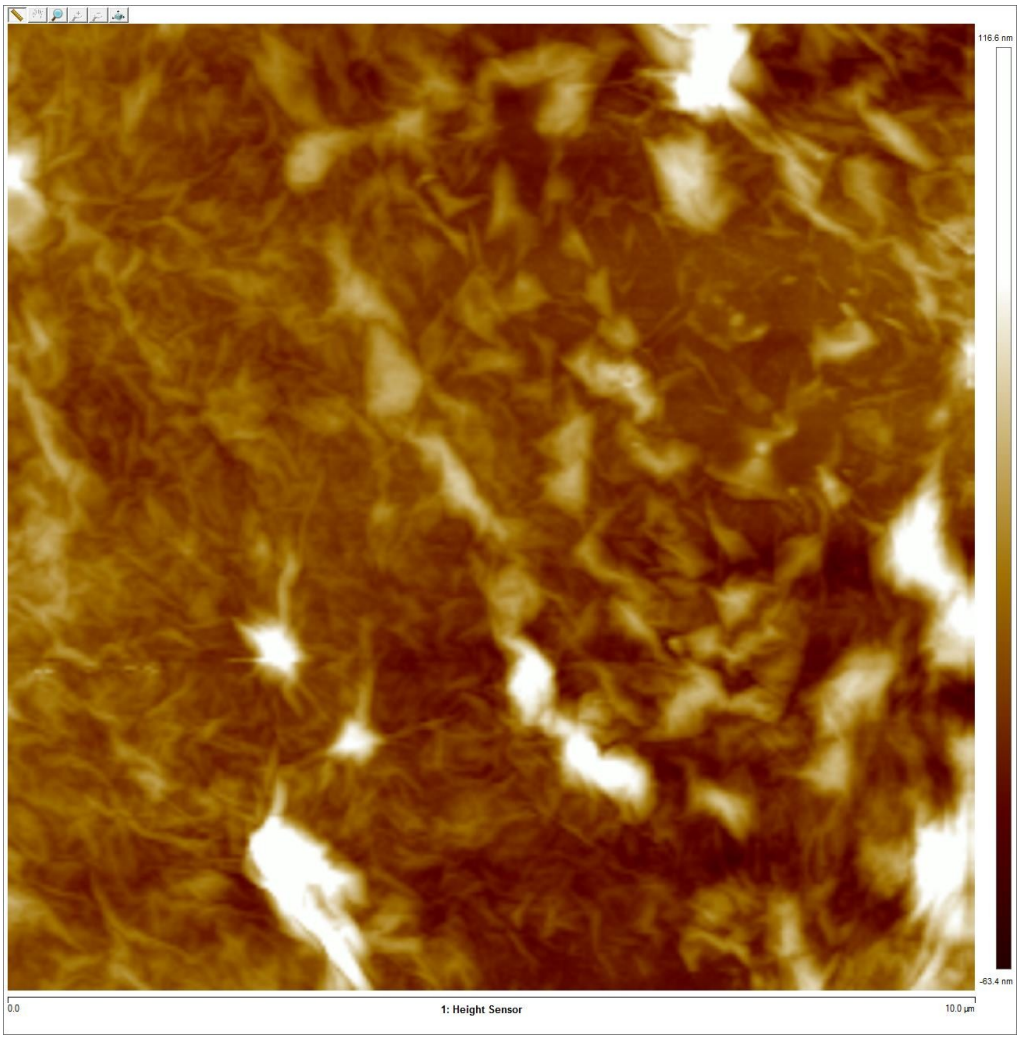

Fig. S3 AFM image of GO.

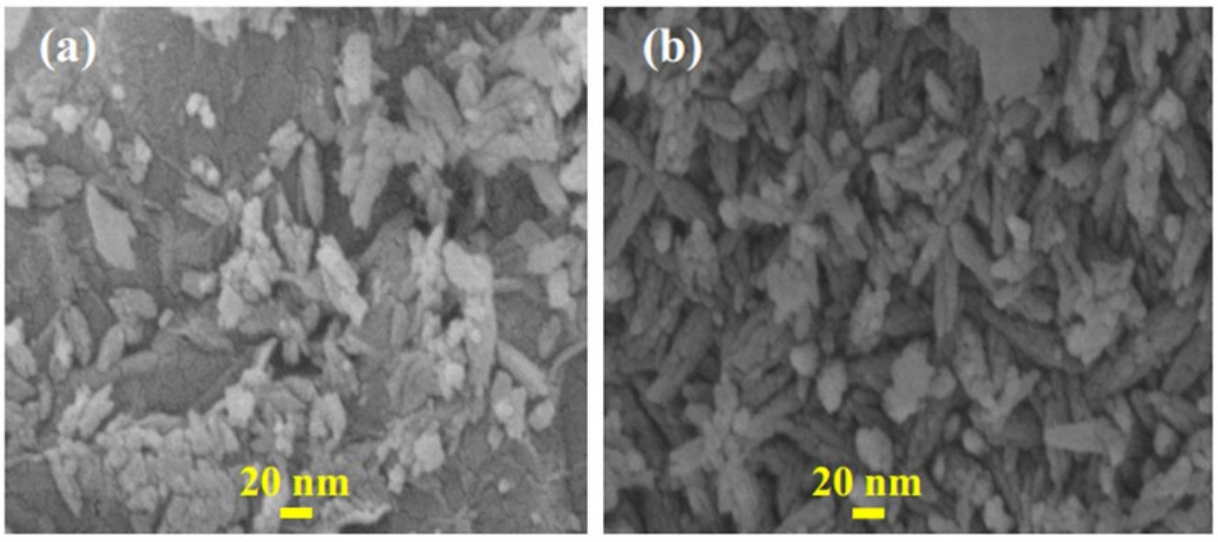

Fig.S4 High magnification FESEM image of GO/HAP-2 (a) and GO/HAP-3 (b) nanocomposites.

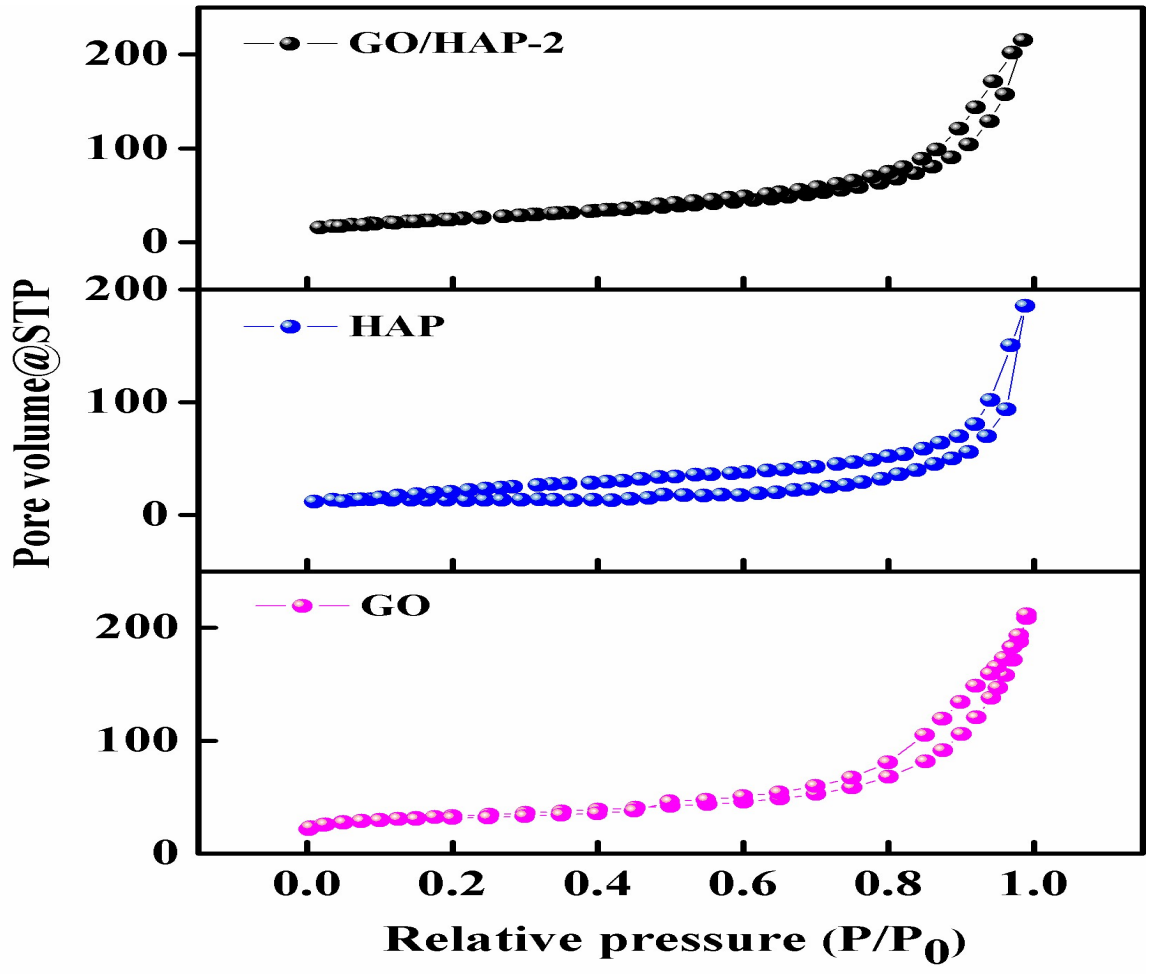

Fig. S5 N2 adsorption and desorption isotherms of GO, HAP, and GO/HAP-2.

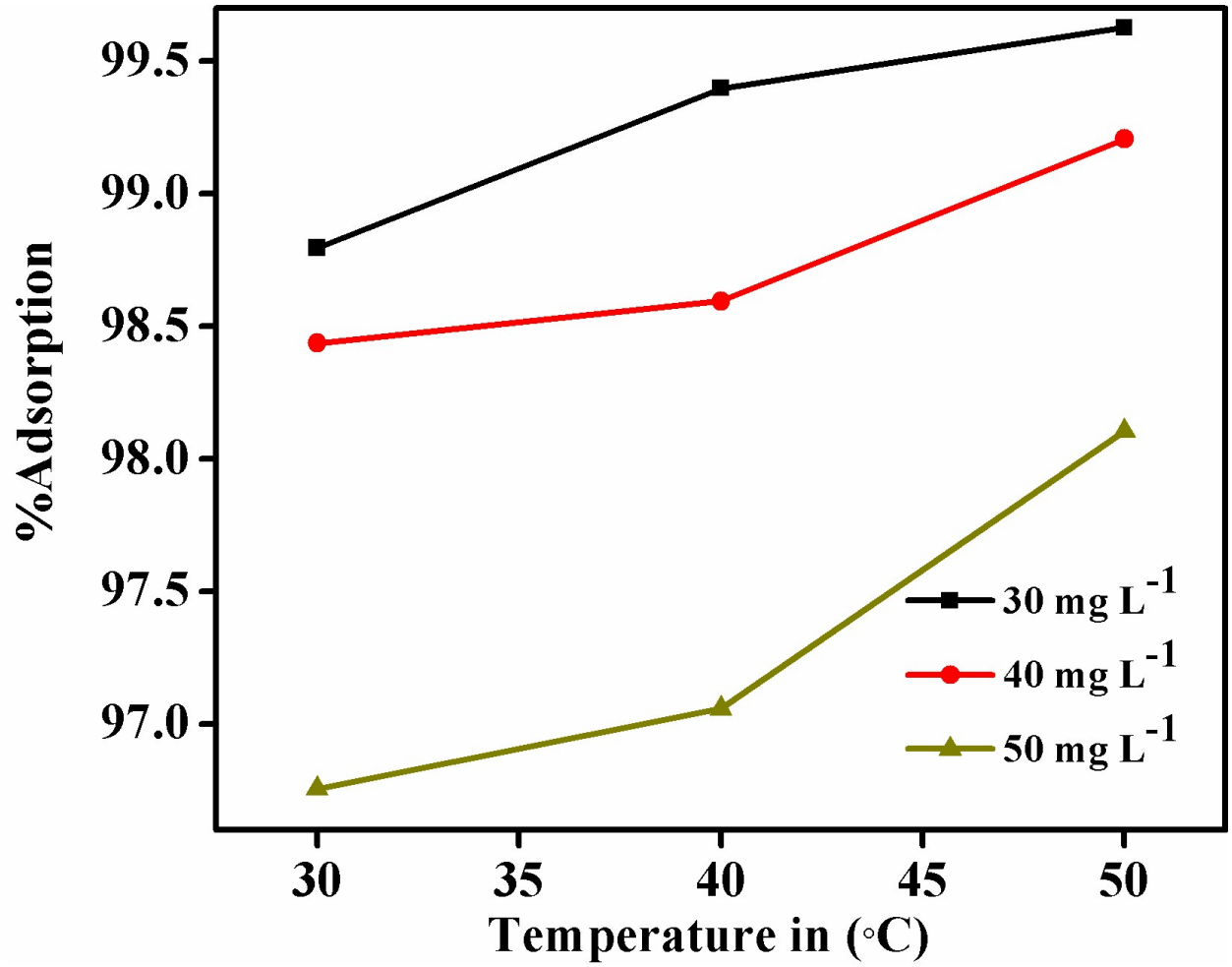

Fig. S6 Effect of temperature on the adsorption of MG. {GO/HAP-2: 0.01 g}.

T1. Textural properties of GO, HAP, and GO/HAP-2

Sample description	**Pore volume (cm^3g^{-1})**	**BET surface area (m^2g^{-1})**
GO	0.29	119.13
HAP	0.28	39.02
GO/HAP-2	0.33	91.18