

Electronic supplementary information

**Graphene oxide-based boronate polymer brushes via surface initiated  
atom transfer radical polymerization for selective enrichment of  
glycoproteins**

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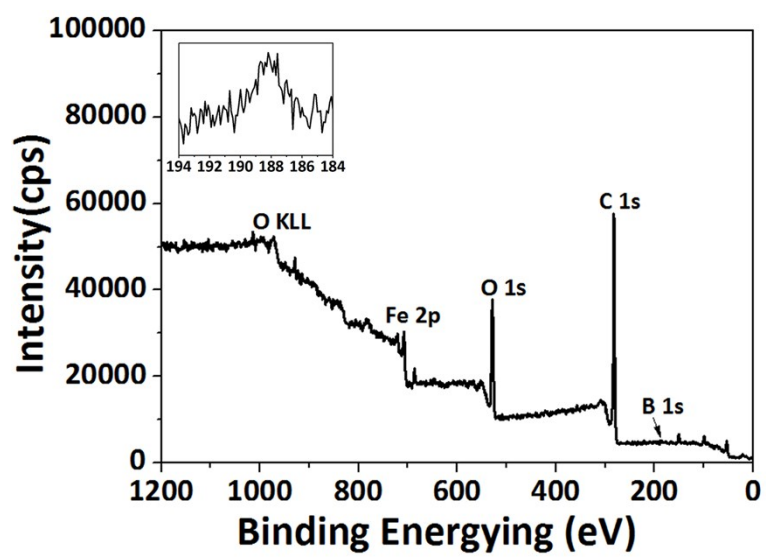
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**Figure S1**



**Figure S1** XPS spectra of GO@PVPBA nanocomposite.

Figure S2

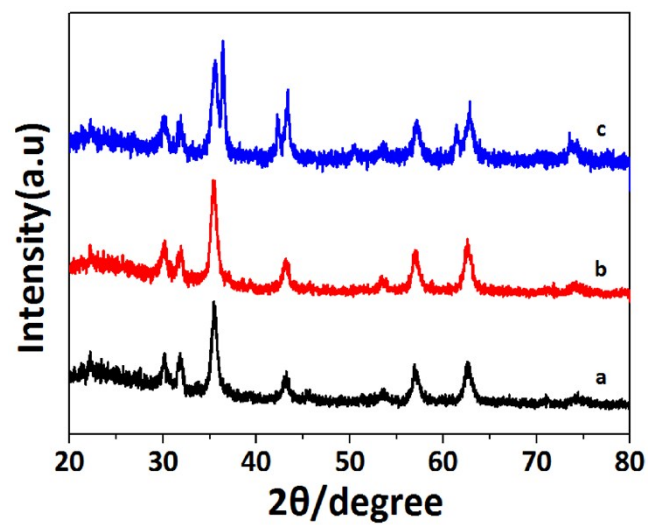
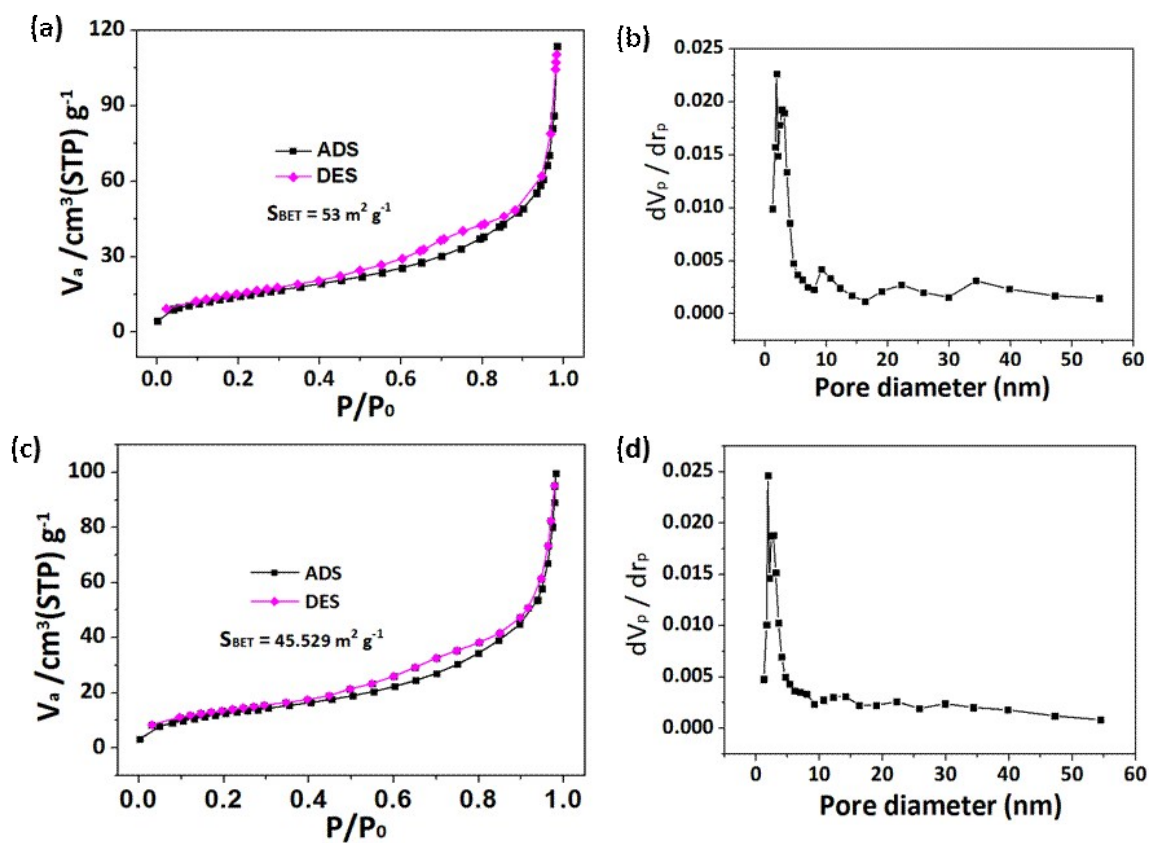


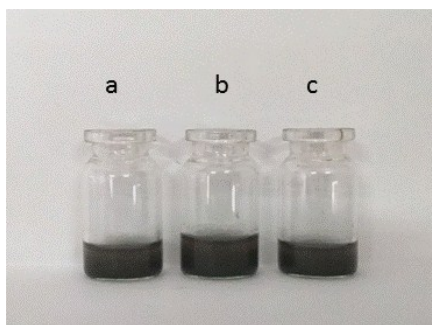
Figure S2 XRD patterns of GO@Fe<sub>3</sub>O<sub>4</sub> (a), GO@Br (b), and GO@PVPBA(c) nanocomposite.

Figure S3



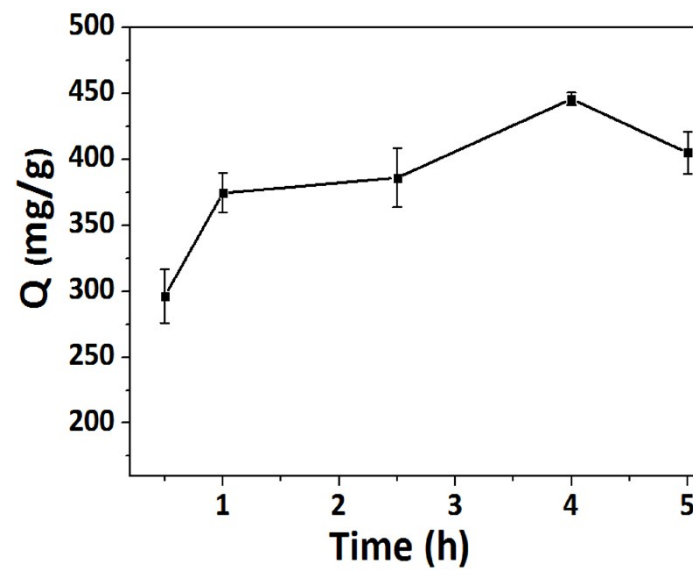
**Figure S3**  $N_2$  adsorption/desorption isotherms (at 77 K) of GO@Fe<sub>3</sub>O<sub>4</sub>(a), and GO@PVPBA (c) nanocomposites, pore size distribution of GO@Fe<sub>3</sub>O<sub>4</sub> (b), and GO@PVPBA (d) according to the Barrett–Joyner–Halenda (BJH) model.

**Figure S4**



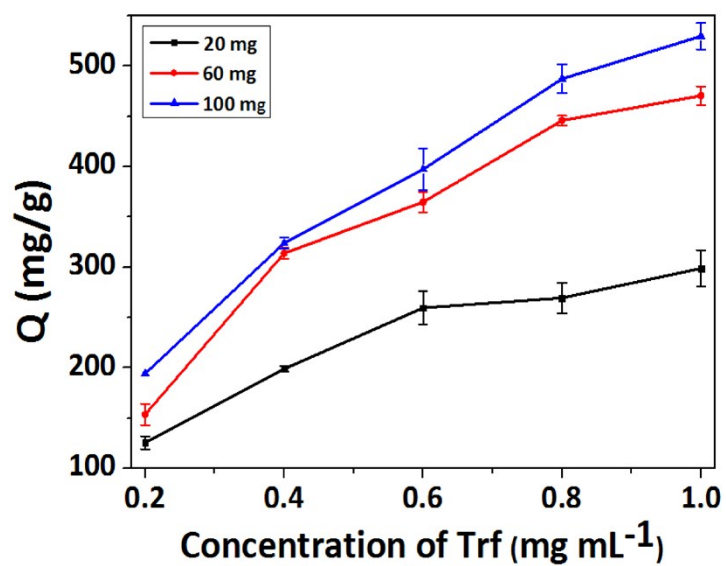
**Figure S4** The picture of GO@Fe<sub>3</sub>O<sub>4</sub> (a), GO@Br (b), and GO@PVPBA (c) nanocomposites dispersed in phosphate buffer after 3 min of ultrasonication.

**Figure S5**



**Figure S5** Adsorption of Trf on GO@PVPBA with different incubation time at pH 9.0.

**Figure S6**



**Figure S6** Adsorption of Trf on GO@PVPBA with different concentrations of VPBA in the reaction mixture, and the incubation time of 4 h at pH 9.0.