Supporting Information

Graphene oxide/Fe₃O₄/SO₃H nanohybrid: A new adsorbent for adsorption

and reduction of Cr(VI) from aqueous solutions

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Figure S1. UV-vis absorption spectrum of GO.



Figure S2.X-ray photoelectrone spectroscopy (XPS) spectra: (A)wide scan, (B) Fe 2p, (C) O 1s, (D) S 2p spectra of SMGO.





Figure S3. Raman spectra ($\lambda = 532$ nm) of (A) GO, (B) SMGO.

Figure S4.Nitrogen adsorption-desorption isotherms of SMGO.



Figure S5. Pore size distribution of SMGO.



В Weight loss (%) A Temperature °C

Figure S6. TGA analysis of (A)GO and (B) SMGO.

Figure S7. EDS spectra of (A) GO (B)SMGO.



Figure S8. Dispersity of GO and GO-SO₃H in water.

