

Supporting Materials For

Polyaniline Coating on Carbon Fiber Fabric for Hexavalent Chromium Removal

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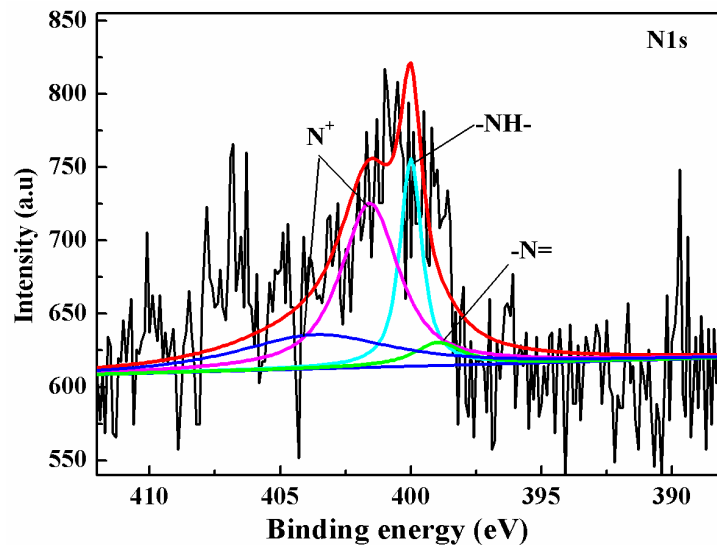


Fig. S1 XPS N1s spectra of synthesized PANI/CF with a 10.0 wt% PANI loading.

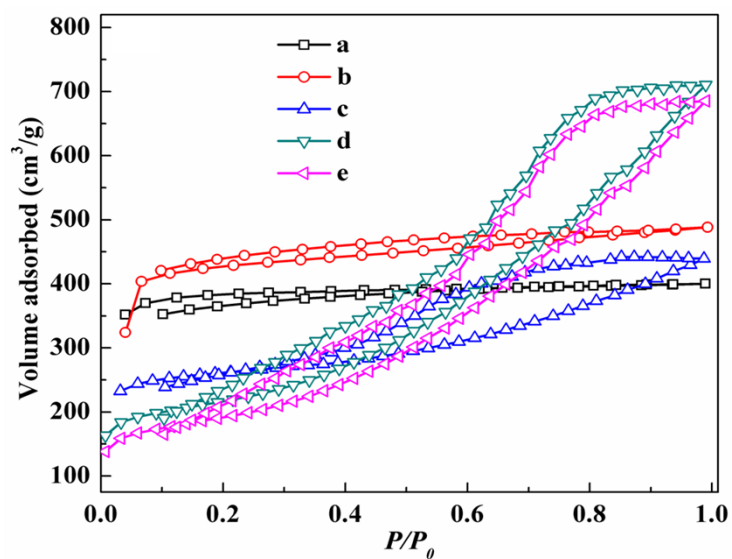


Fig. S2 nitrogen adsorption-desorption isotherm of (a) the as-received CFs, and PANI/CFs with a PANI loading of (b) 5.0, (c) 10.0, (d) 15.0, (e) 20.0 wt%.

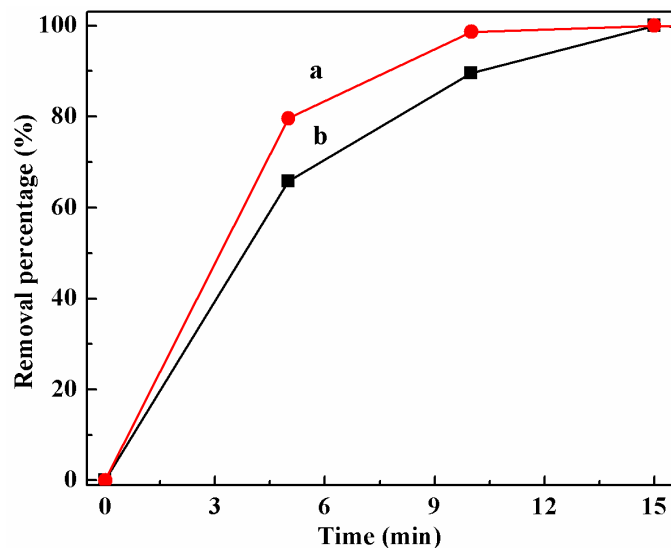


Fig. S3 Effect of contact time on Cr(VI) removal efficiency by PANI/CF with a 10.0 wt% PANI loading, ([PANI/CF]: 2.75 g/L, [Cr(VI)]: (a) 1000 and (b) 600 $\mu\text{g/L}$, pH: 1.0).

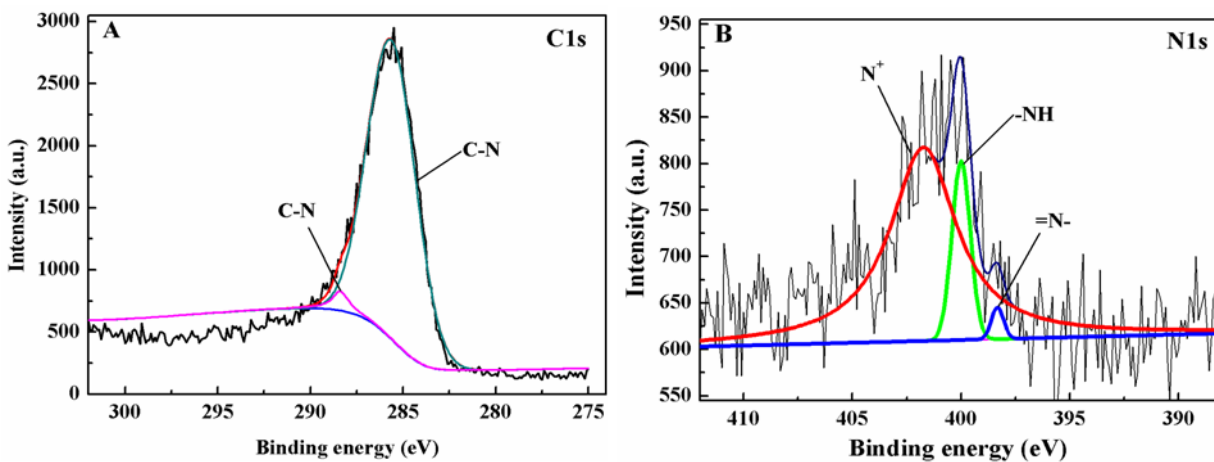


Fig. S4 (A) XPS C1s and (B) N1s spectra of PANI/CF after adsorption of Cr(VI) solution with an initial Cr(VI) concentration of 48.0 mg/L and pH at 1.0.

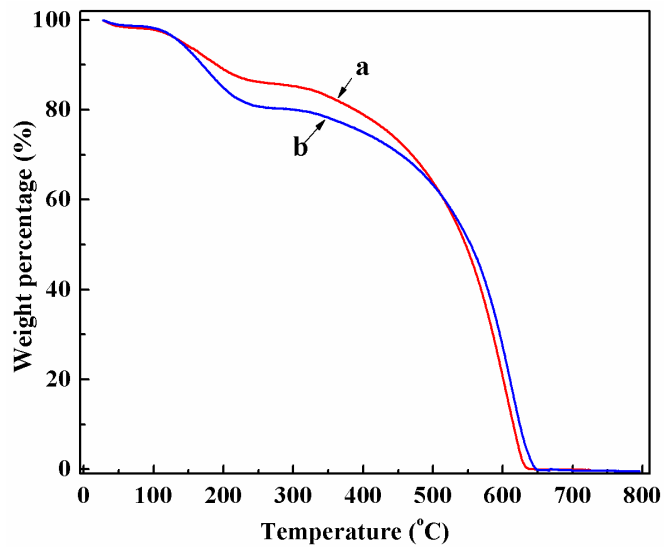


Fig. S5 TGA curves of regenerated PANI/CF after five adsorption/desorption cycles.