

Electronic Supplementary Information

**Highly stable and covalently functionalized magnetic nanoparticles  
by polyethyleneimine for Cr (VI) adsorption from aqueous solution**

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Table S1. Effect of different concentrations of NaOH on Cr (VI) adsorption capacity

Concentration of NaOH (mol L <sup>-1</sup> )	Untreated	0.1	0.2	0.3	0.5
Adsorption capacity (mg g <sup>-1</sup> )	124.44	124.37	124.50	124.26	124.38

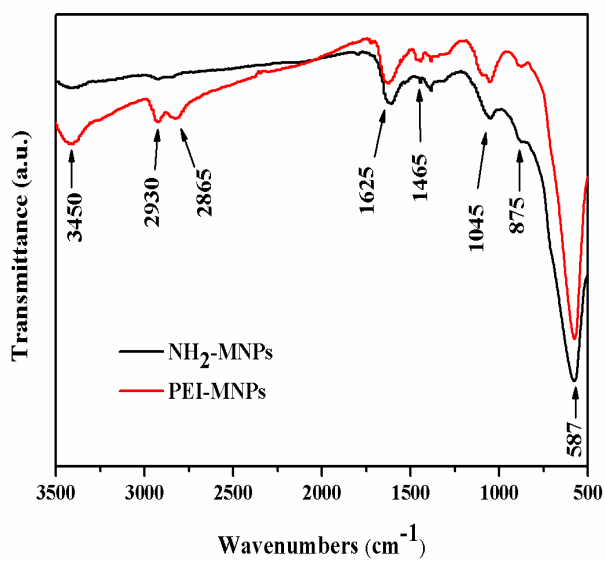


Fig. S1 FT-IR spectra of NH<sub>2</sub>-MNPs and PEI-MNPs.

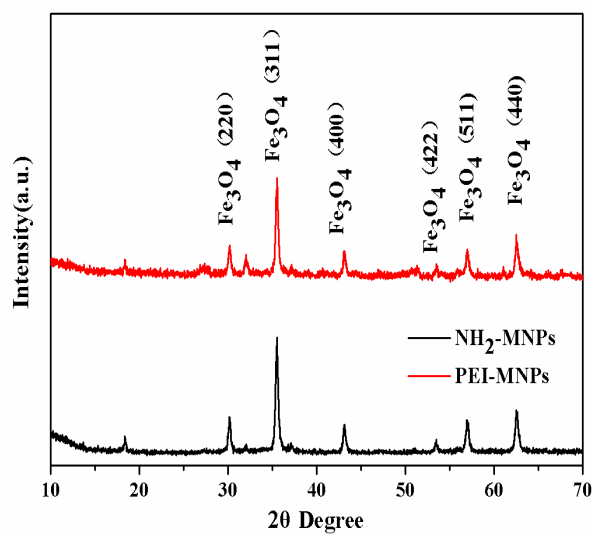


Fig. S2 XRD patterns of NH<sub>2</sub>-MNPs and PEI-MNPs.

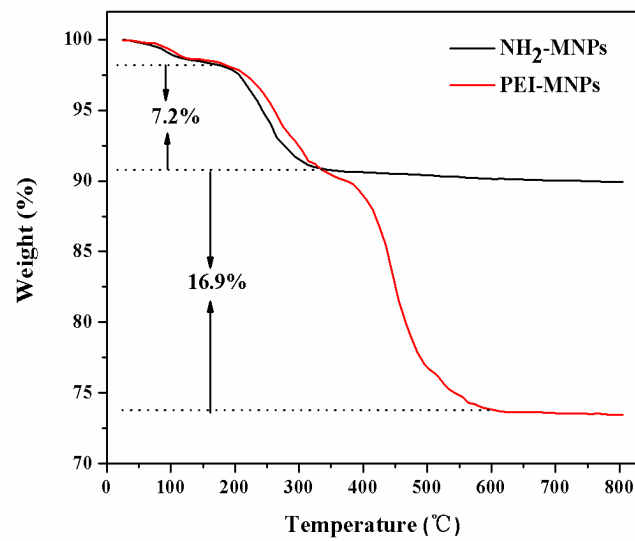


Fig. S3 TGA curves of NH<sub>2</sub>-MNPs and PEI-MNPs.

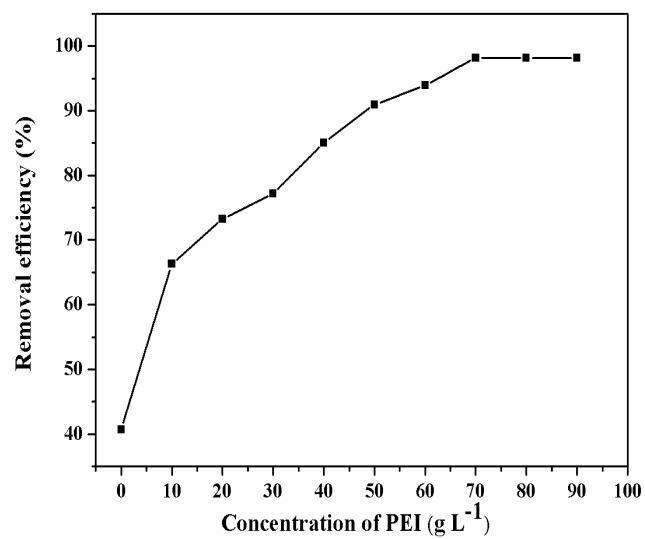


Fig. S4 Effect of concentration of PEI on Cr (VI) adsorption on PEI-MNPs.

