

Supporting Information for
Stretchable self-healing hydrogels capable of heavy metal
ions scavenging

Dandan Song, Zengdian Zhao and Shasha Song

School of Chemistry and Chemical Engineering, Shandong University of Technology,

Zibo 255000, P. R. China

* To whom correspondence should be addressed.

S.S., e-mail: songshasha@sdut.edu.cn;

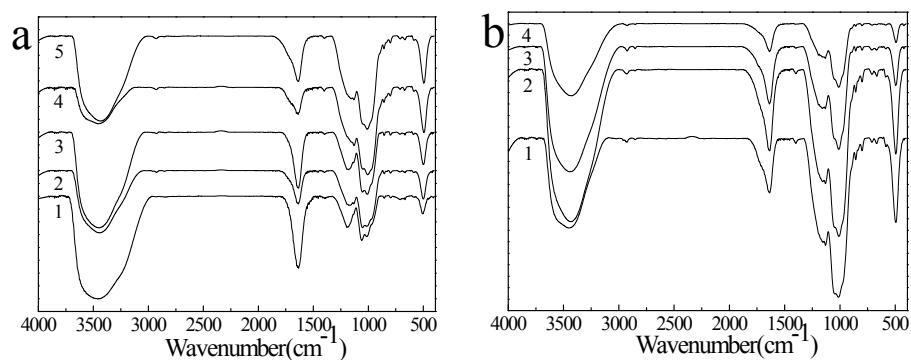


Fig. S1 FT-IR spectra of freeze-dried PA/CS gel samples formed (a) at $w_{CS} = 6$ wt% with different c_{PA} ($\text{mol}\cdot\text{L}^{-1}$): curve 1) 0.3, curve 2) 0.5, curve 3) 0.6, curve 4) 0.8, curve 5) 1; (b) at $c_{PA} = 1\text{mol}\cdot\text{L}^{-1}$ with different w_{CS} (wt%): curve 1) 5, curve 2) 6, curve 3) 7, curve 4) 8.

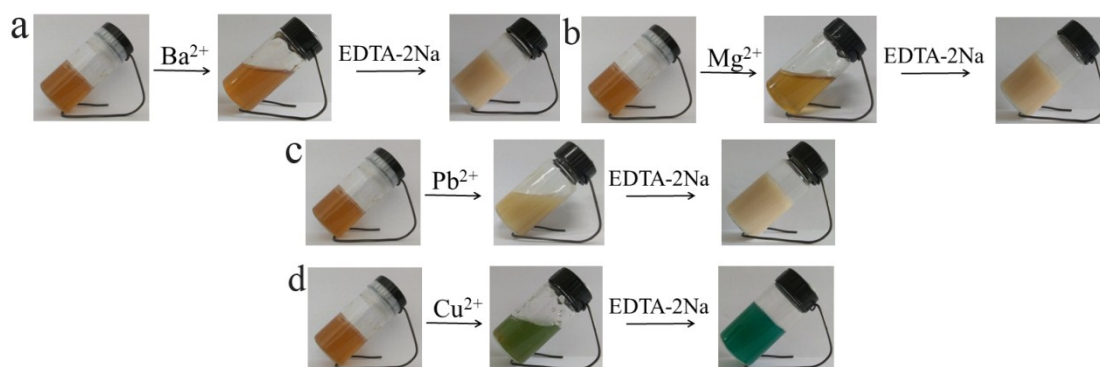


Fig. S2 Hydrogel's responses to different metal ions: (a) Ba^{2+} , (b) Mg^{2+} , (c) Pb^{2+} , (d) Cu^{2+} .

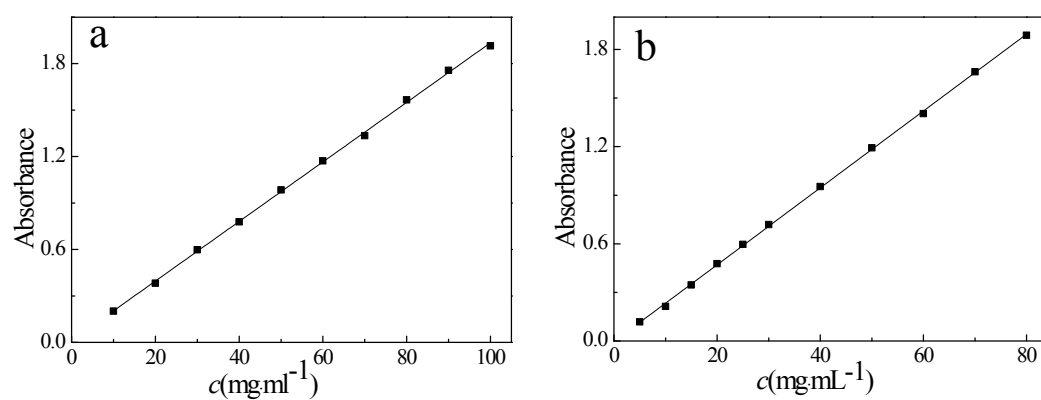


Fig. S3 The calibration curves of (a) Pb^{2+} , (b) Cd^{2+} in aqueous solution. The complexation agents for Pb^{2+} and Cd^{2+} was xylene orange.