

Supplementary Material (ESI) for Dalton Transactions

Facile synthesis of a novel polymeric ionic liquid gel and its excellent performance for hexavalent chromium removal

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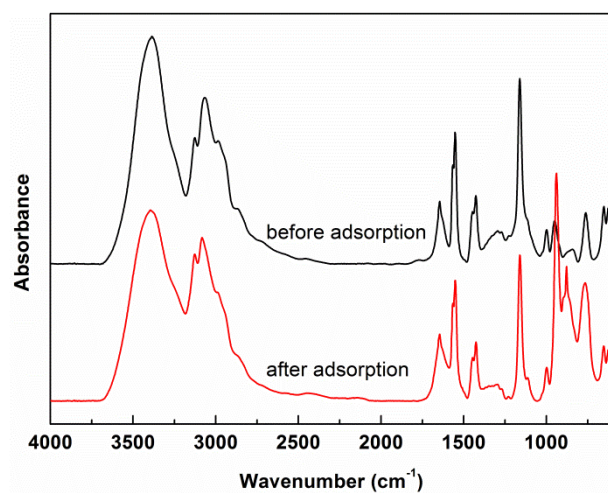


Fig. S1 Micro-FTIR spectra of PIL gel before and after adsorption of Cr(VI).

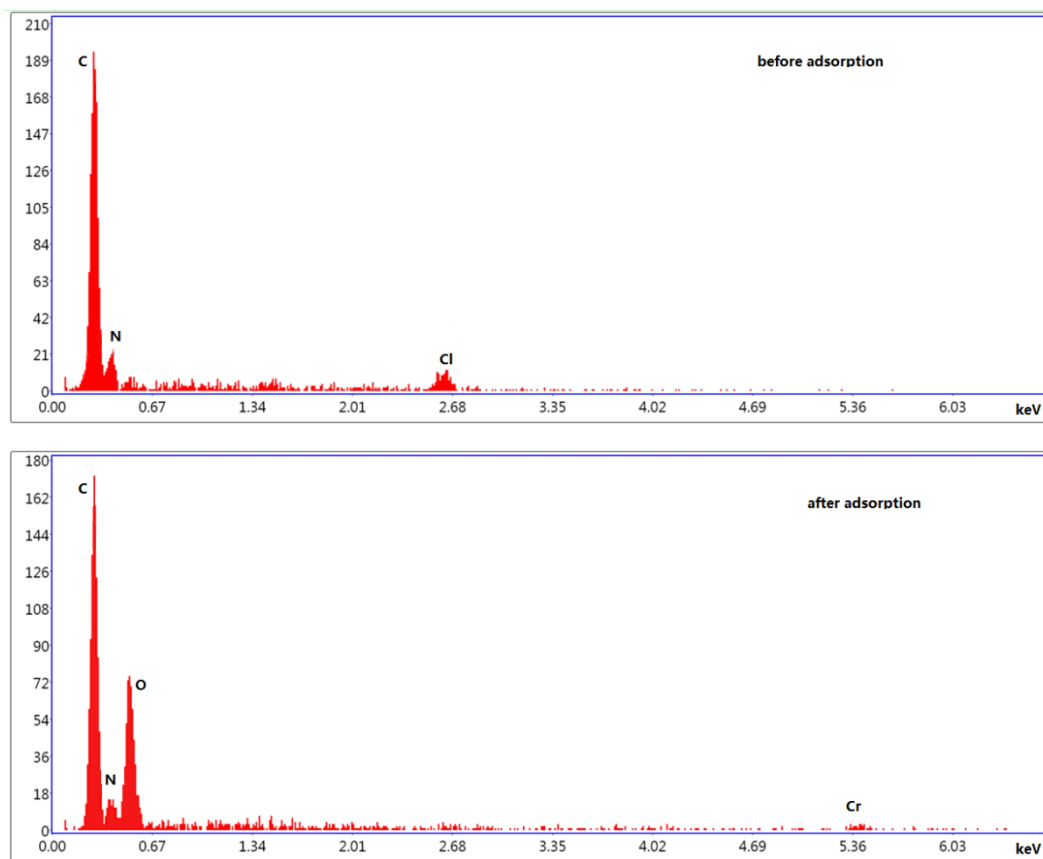


Fig. S2 EDX spectra of PIL gel before and after adsorption of Cr(VI).

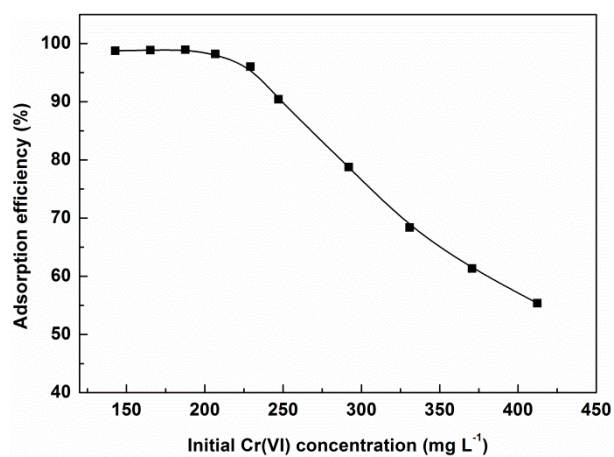


Fig. S3 Effect of initial Cr(VI) concentration on the adsorption efficiency.

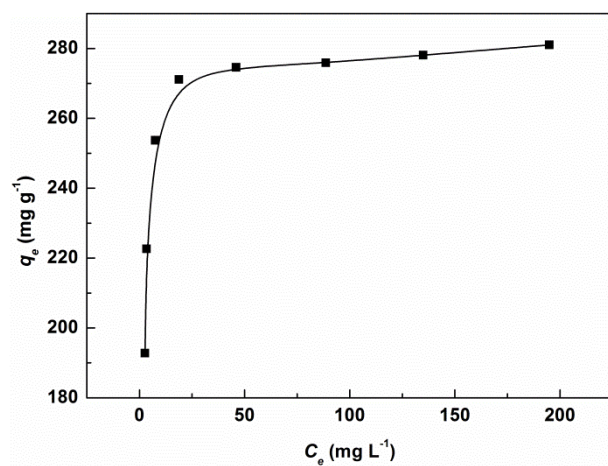


Fig. S4 Adsorption isotherm of PIL gel prepared at 220 kGy. (pH = 4.6 ± 0.2)

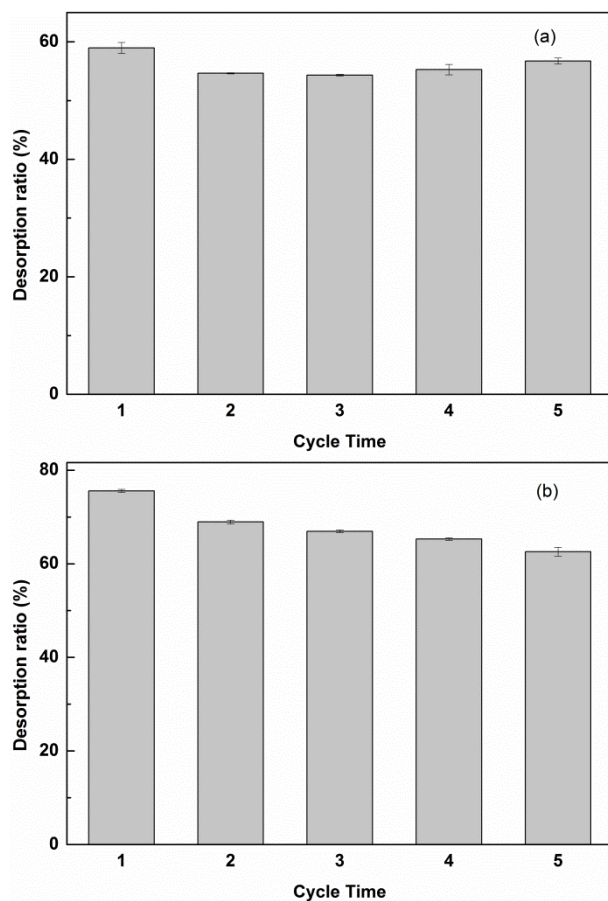


Fig. S5 The desorption ratio after each cycle using (a) NaCl solution and (b) NaOH solution to desorb Cr(VI) from PIL gel. The desorption ratio was calculated based on the mass of Cr(VI) released into the solution and the mass of Cr(VI) accumulated in the gel before desorption.