Supporting Information

Facile Preparation of Self-Assembled Hydrogels Constructed by Poly-Cyclodextrin and Poly-Adamantane as Highly Selective Adsorbents for Wastewater Treatment

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Sample	C (wt%)	H (wt%)	N (wt%)
β-CD	44.44	6.17	-
P-CD	45.65±0.03	6.43±0.01	-
PAA	50.00	5.56	-
PAA-Ad	49.02±0.01	6.80±0.01	6.64±0.01

 Table S1 Elemental analysis data of as-prepared compounds.



Fig. S1 (a) FT-IR spectra of P-CD, PAA-Ad, and xerogels. (b) XRD patterns P-CD, PAA-Ad, and xerogels. (c) TG curves of P-CD, PAA-Ad, and xerogels. (d) Swelling kinetics of xerogels.



Fig. S2 Scheme illustration of adamantane-modified poly acrylic acid (PAA-Ad) synthesis. m and n denote the mol% of the guest unit and the acrylic unit, respectively (m:n = 1:20).



Fig. S3 Kinetic adsorption of (a) q_t versus t plots and (b) t/q_t versus t plots for BPA and (c) q_t versus t plots and (d) t/q_t versus t plots for N-Azo.



Fig. S4 Kinetic adsorption of (a) q_t versus t plots and (b) t/q_t versus t plots for MB and (c) q_t versus t plots and (d) t/q_t versus t plots for RhB.