

Supporting Information

Facile preparation of nano-imprinted polymer on magnetite nanoparticles for rapid separation of lead ions from aqueous solution

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Table S1 Preparation conditions of different polymers

Polymers	Template (Pb (II))	Monomer	Crosslinker (EFDMA)	AIBN
IIP-VI	0.2 mmol	1-VI (0.8 mmol)	1.5 mmol	25 mg
IIP-ATA	0.2 mmol	ATA (0.4 mmol)	1.5 mmol	25 mg
IIP-ANA	0.2 mmol	ANA (0.4 mmol)	1.5 mmol	25 mg
IIP-IA-1.0	0.2 mmol	IA (0.4 mmol)	1.0 mmol	25 mg
IIP-IA-1.5	0.2 mmol	IA (0.4 mmol)	1.5 mmol	25 mg
IIP-IA-2.0	0.2 mmol	IA (0.4 mmol)	2.0 mmol	25 mg

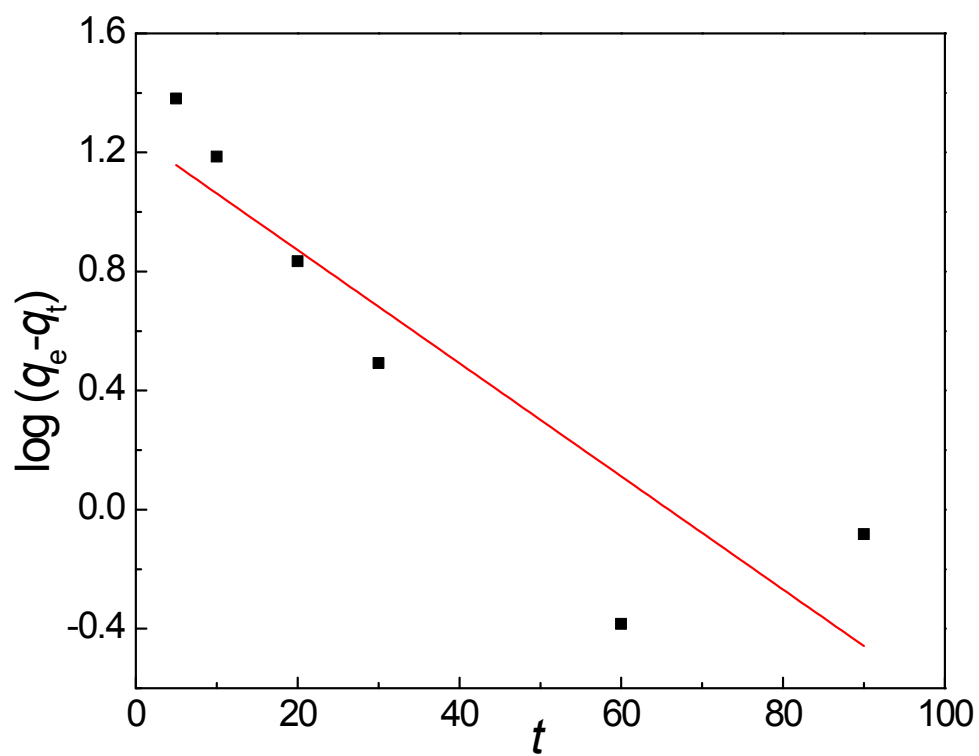


Fig. S1 (a) Curve of pseudo-first-order kinetic model.

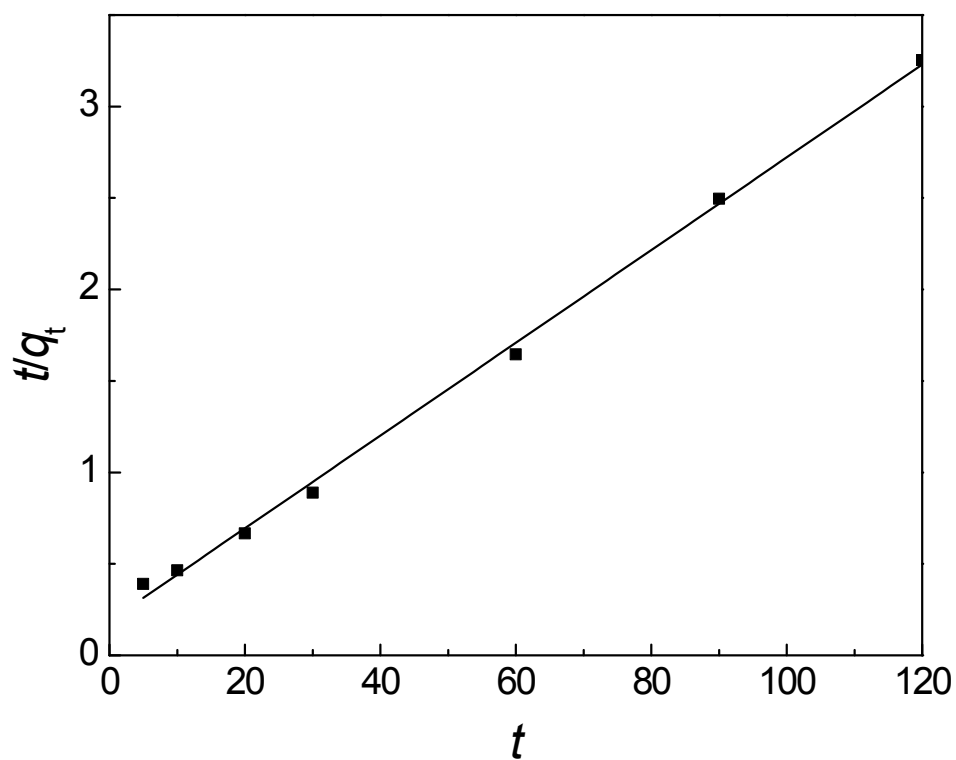


Fig. S1 (b) Curve of the pseudo-second-order kinetic model.

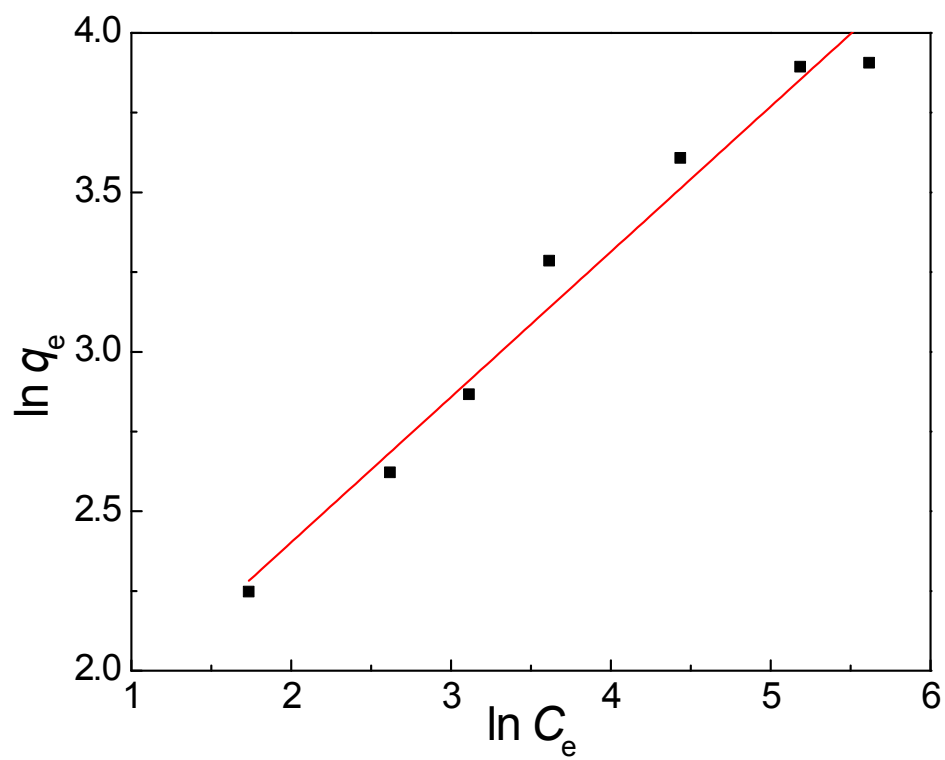


Fig. S2(a) Freundlich adsorption isotherm of Pb-IIP.

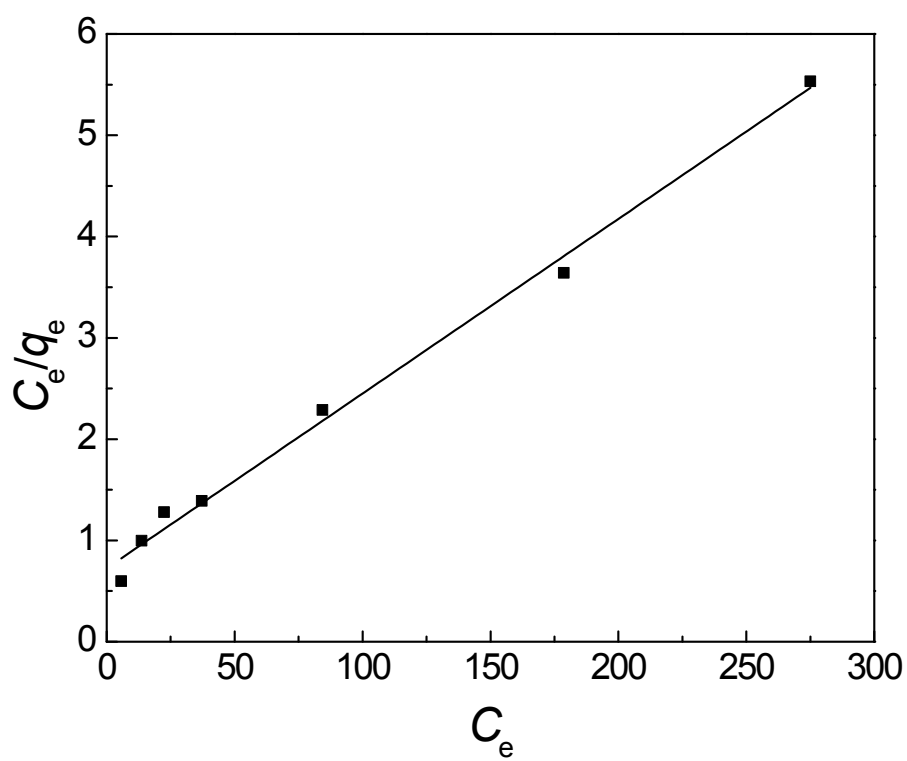


Fig. S2(b) Langmuir adsorption isotherm of Pb-IIP.

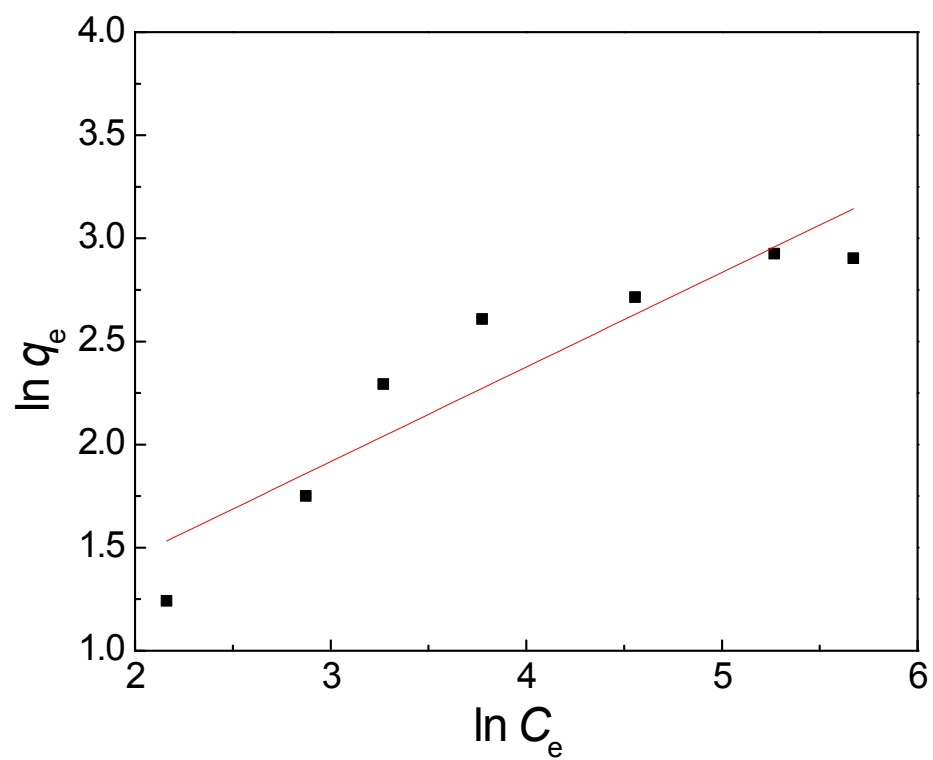


Fig. S2(c) Freundlich adsorption isotherm of NIP.

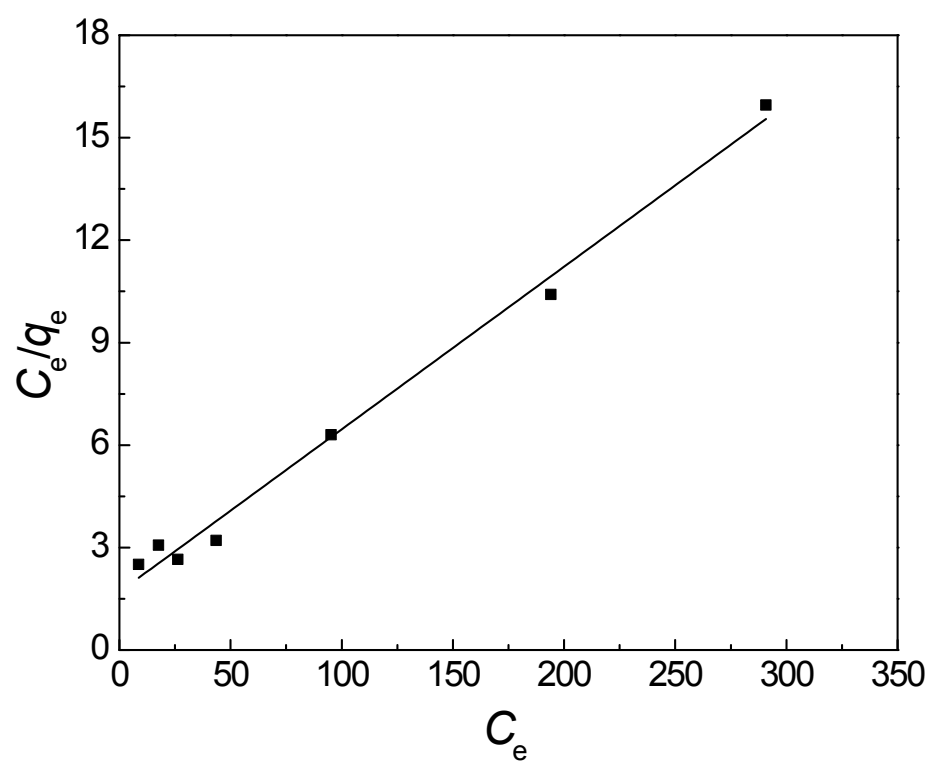


Fig. S2(d) Langmuir adsorption isotherm of NIP.