Electronic supplementary information for

Synthesis and characterization of surface ion-imprinted polymer based on SiO_2-coated graphene oxide for selective adsorption of uranium(VI)

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Table S1 Kinetic parameters for the U(VI) adsorption onto GO/SiO_2-IIP

Pseudo-first order			Pseudo-second order		
Q_{e1} (mg g^{-1})	k_1 (min^{-1})	R^2	Q_{e2} (mg g^{-1})	k_2 (g mg^{-1} min^{-1})	R^2
0.0169	0.117	0.8928	1.120	386.99	0.9928

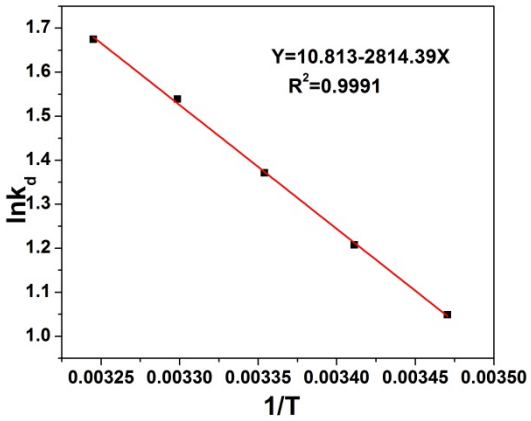

Fig. S1 Plot of $\ln K_d$ vs. 1/T for the uptake of U(VI) on GO/SiO_2-IIP (C_0=5 mg L^{-1}, pH=4.0, t = 7min, W = 10mg and V =20 mL).

Table S2 Langmuir and Freundlich isotherm parameters for sorption of U(VI) by GO/SiO_2-IIP and GO/SiO_2-NIP

	Langmuir model			Freundlich model		
	K_L(L g^{-1})	Q_m (mg g^{-1})	R^2	k_F	n	R^2
GO/SiO_2-IIP	0.1886	17.89	0.9982	5.889	4.031	0.9782
GO/SiO_2-NIP	0.0794	10.32	0.9968	1.877	2.758	0.9787

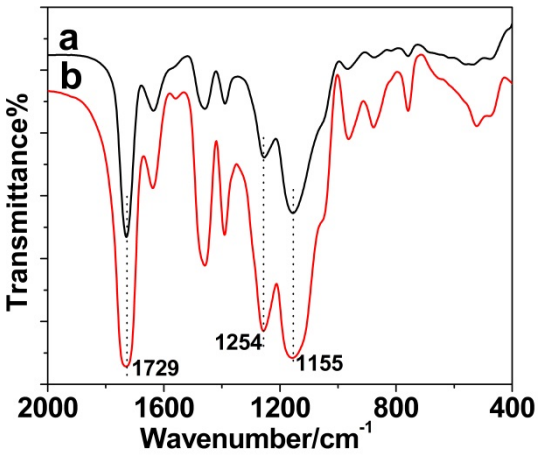

Fig. S2 FT-IR spectra of GO/SiO_2-IIP (a) and GO/SiO_2-IIP after five adsorption-desorption cycles (b).