

Electronic Supplementary Information

Selective magnetic mercury (II) ion capturing ligand-doped silica gel for water analysis

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Table S1 Elemental composition of SiO₂@MNP and ODE@SiO₂@MNP (determined after exposed to Hg²⁺ solution).

Element	Percent (%)	
	SiO ₂ @MNP	ODE@SiO ₂ @MNP
Iron (Fe)	23.9	9.7
Oxygen (O)	43.3	37.6
Silica (Si)	32.8	13.0
Carbon (C)	-	11.1
Nitrogen (N)	-	1.8
Sulfur (S)	-	1.5
Hg ²⁺	Not detected	25.3

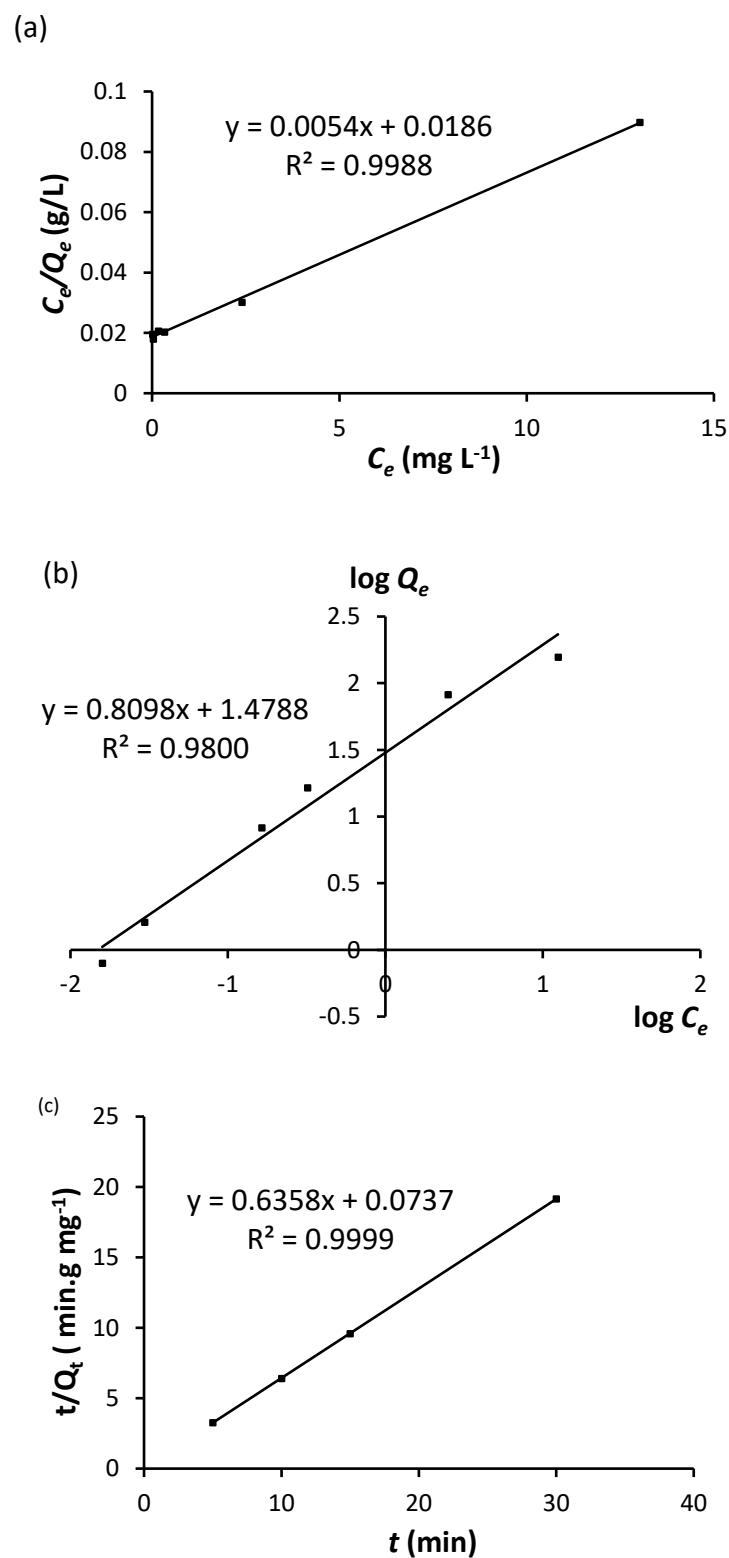


Fig. S1 (a) Langmuir's isotherm plot, (b) Freundlich adsorption isotherm plot, (c) Pseudo-second order model plot