

Supplementary Materials

Preconcentration of Pb with Aminosilanized Fe₃O₄ Nanopowders in Environmental Water Followed by Electrothermal Atomic Absorption Spectrometric Determination

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Table S1. Furnace heating program for electrothermal atomic absorption spectrometry.

Stage	Temperature (°C)	Time (s)	Ar Gas (L·min ⁻¹)
Dry 1	60	3	0.10
Dry 2	120	20	0.10
Dry 3	250	10	0.10
Pyrolysis 1	700	20	1.00
Pyrolysis 2	700	3	-
Atomization	2000	3	-
Cleaning	2500	2	1.00

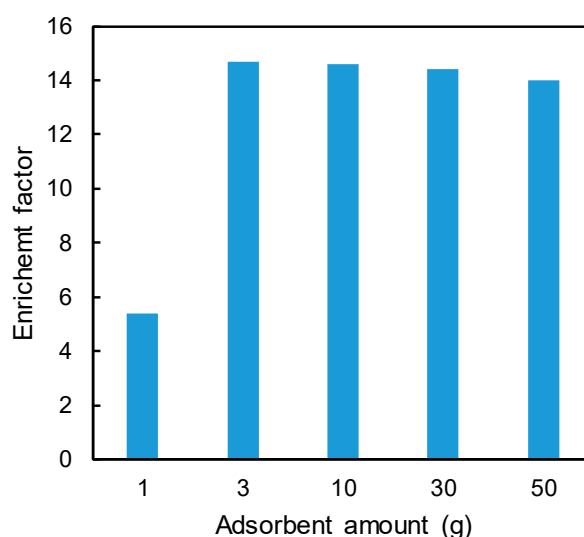


Figure S1. Effect of sorbent amount on the enrichment factor for Pb with magnetite Fe₃O₄. Sample: Pb 1 ng·mL⁻¹, 100 mL; pH: 5; magnetic stirring desorption: 0.1 mol·L⁻¹ HNO₃ 1 mL.

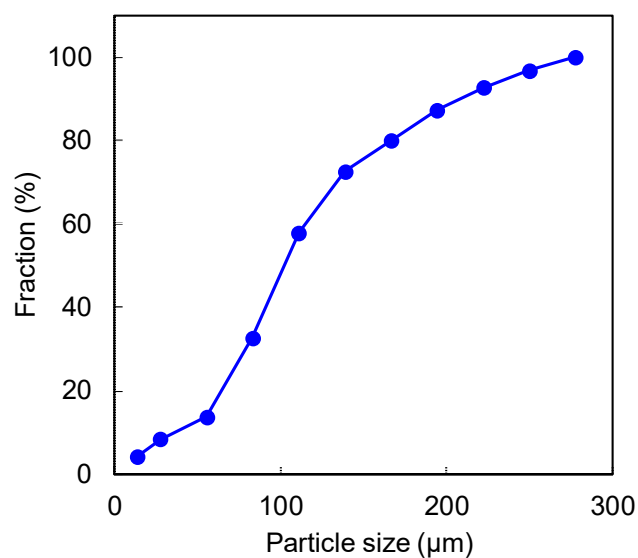


Figure S2. Particle size distribution for aminosilanized Fe_3O_4 .

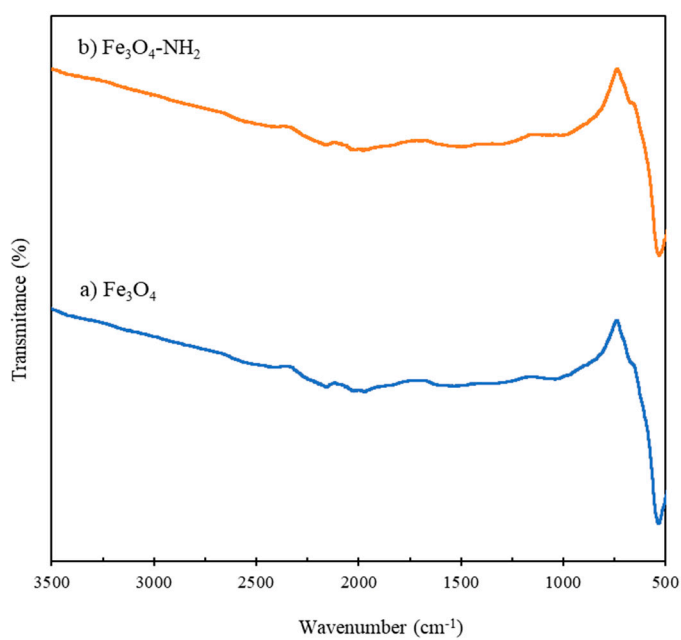


Figure S3. FT-IR spectra of (a) bare Fe_3O_4 and (b) aminosilanized Fe_3O_4 ($\text{Fe}_3\text{O}_4\text{-NH}_2$).