

Supplementary data

Highly sensitive detection of Cr(VI) in groundwater by bimetallic NiFe nanoparticles

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Table S1. ICP results of Cr(VI) and co-occurring ions in groundwater samples.

Sample	Well depth (m)	Total Hardness (CaCO ₃)	Ca ²⁺ (ppm)	Mg ²⁺ (ppm)	K ⁺ (ppm)	Na ⁺ (ppm)	Fe (ppm)	Cu (ppm)	Mn (ppm)	Zn (ppm)	Hg (ppm)	Cr ⁶⁺ (ppm)	Pb (ppm)	Cd (ppm)	Ni (ppm)	Co (ppm)	Cl ⁻ (ppm)	SO ₄ ²⁻ (ppm)
A	18	542.5	32.71	111.9	2.41	19.98	0.155	<0.010	0.010	0.010	<0.0001	0.044	0.001	<0.002	<0.008	<0.006	11.90	13.49
B	200	161.9	32.81	19.39	1.57	32.46	<0.010	<0.010	<0.001	0.002	<0.0001	0.006	<0.001	<0.002	<0.008	<0.006	16.46	30.48
C	290	237.4	17.72	46.95	2.28	381.9	0.133	<0.010	0.002	0.003	<0.0001	0.114	<0.001	<0.002	<0.008	<0.006	234.6	277.8
D	300	408.7	26.17	83.38	1.82	379.6	0.287	<0.010	0.003	0.023	<0.0001	0.240	0.004	<0.002	<0.008	<0.006	159.3	467.2
E	400	239	19.65	46.17	1.31	205.6	0.078	<0.010	0.003	0.008	<0.0001	0.072	0.003	<0.002	<0.008	<0.006	93.84	174.4

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