

Supporting Information

Integration of cobalt ions assisted-Fenton digestion and photochemical vapor generation: A green method for rapid determination of trace cadmium in rice

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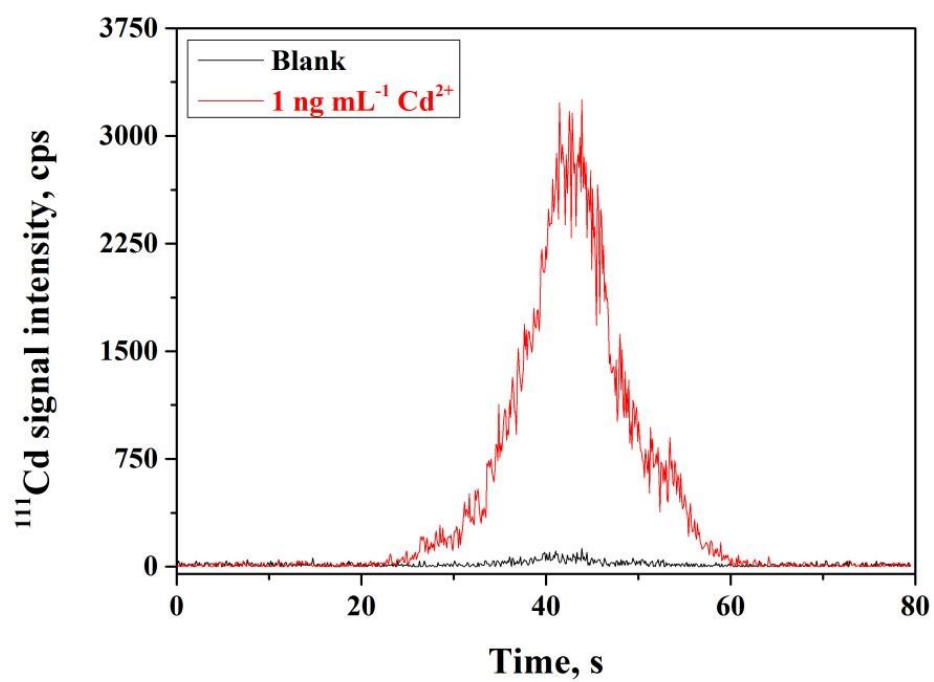


Figure S1. Time-resolved profiles of 1 ng mL⁻¹ Cd²⁺ in PVG-ICP MS: 80 s irradiation time, 20 mg L⁻¹ Co²⁺, and 40% (v/v) FA.

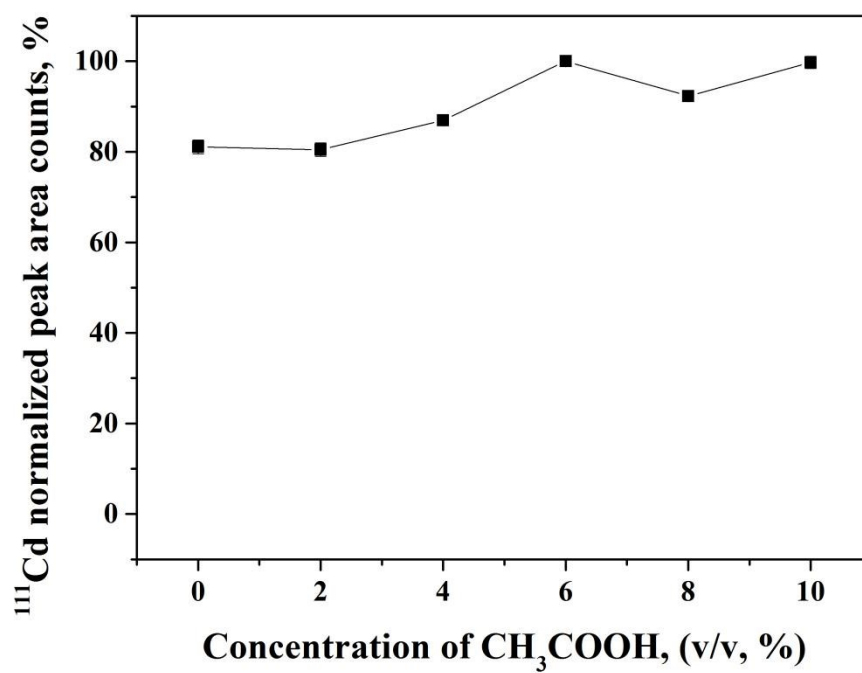


Figure S2. Effect of AA concentrations in mixed acids, 40% FA, 20 mg L⁻¹ Co²⁺, and 80 s UV irradiation time.

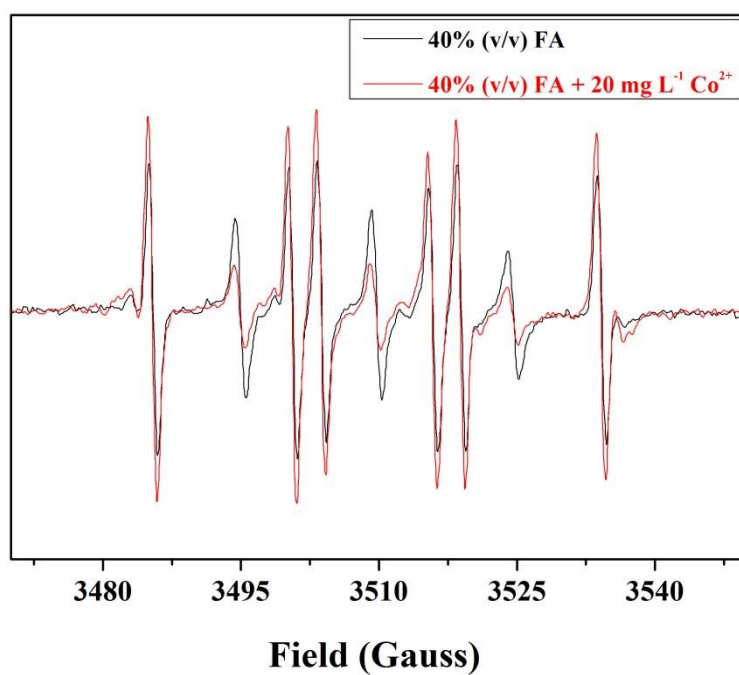


Figure S3. EPR result of the PVG sample of Cd, 80 s UV irradiation time.

Table S1. Analytical result of Pb in CRM

Sample	Element	Measured $\mu\text{g g}^{-1}$ ^a	Certified value $\mu\text{g g}^{-1}$
GBW(E)100351	Pb	0.12 ± 0.02	0.11 ± 0.01

^aMean value \pm standard deviation (n = 3).

Table S2. Analytical results of Bi and Pb in rice samples

Sample	Element	Measured $\mu\text{g g}^{-1}$ ^a	Added $\mu\text{g g}^{-1}$	Found $\mu\text{g g}^{-1}$^a	Recovery %
Sample- 4 (Rice)	Bi	0.0069 ± 0.0005	0.0100	0.0166 ± 0.0009	98
	Pb	not detected	0.10	0.11 ± 0.01	110

^aMean value \pm standard deviation (n = 3).