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*Supplementary Materials*

*for*

**Co-Pyrolysis of Fenton Sludge and Pomelo Peel for Heavy  
Metal Stabilization: Speciation Mechanism and Risk  
Evaluation**

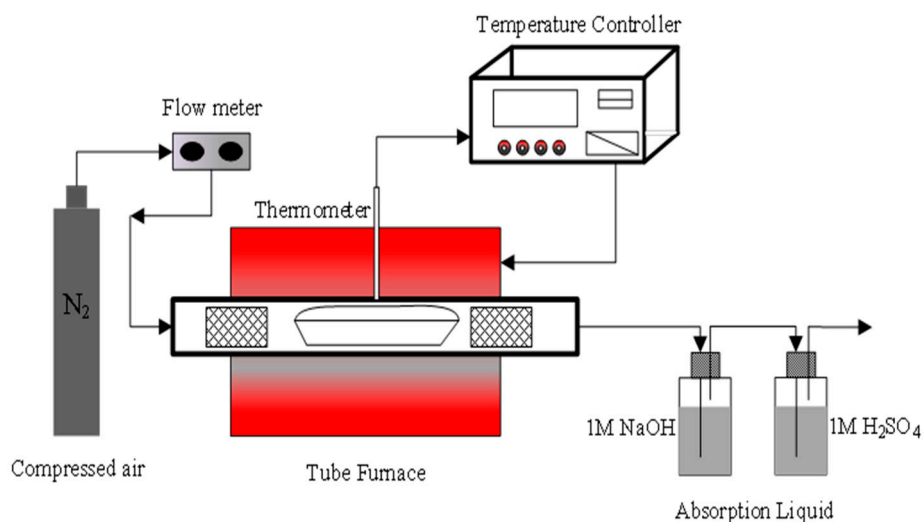
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**Figure S1.** Fixed bed reactor system for co-pyrolysis.

**Table S1.** Details of BCR extraction procedure and extraction fluids

Fraction	Extraction reagents	Conditions
Exchangeable (F1)	20 mL, 0.1M acetic acid	Shaking, 16 h at 25 °C
Reducible (F2)	20 mL, 0.1 M hydroxyl ammonium chloride (pH 2)	Shaking, 16 h at 25 °C
Oxidizable (F3)	Firstly, 5 mL, $H_2O_2$ (30%, v/v)	Firstly, shaking, 1 h at 25 °C
	Next, 5 mL, $H_2O_2$ (30%, v/v)	Next, shaking, 7 h at 80 °C
	Finally 20 mL, 1 M ammonium acetate	Finally, shaking, 16 h at 25 °C
Residual (F4)	Concentrated acid mixture ( $HNO_3:HClO_4:HF = 5:5:2$ , v/v)	Microwave digestion

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**Table S2.** Microwave digestion procedure used in this study

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Step	Heating-up time (min)	Temperature (°C)	Retention time (min)
1	10	120	5
2	3	160	5
3	10	180	20

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