

Supplementary Material: Arsenic Removal by Advanced Electrocoagulation Processes: The Role of Oxidants Generated and Kinetic Modeling

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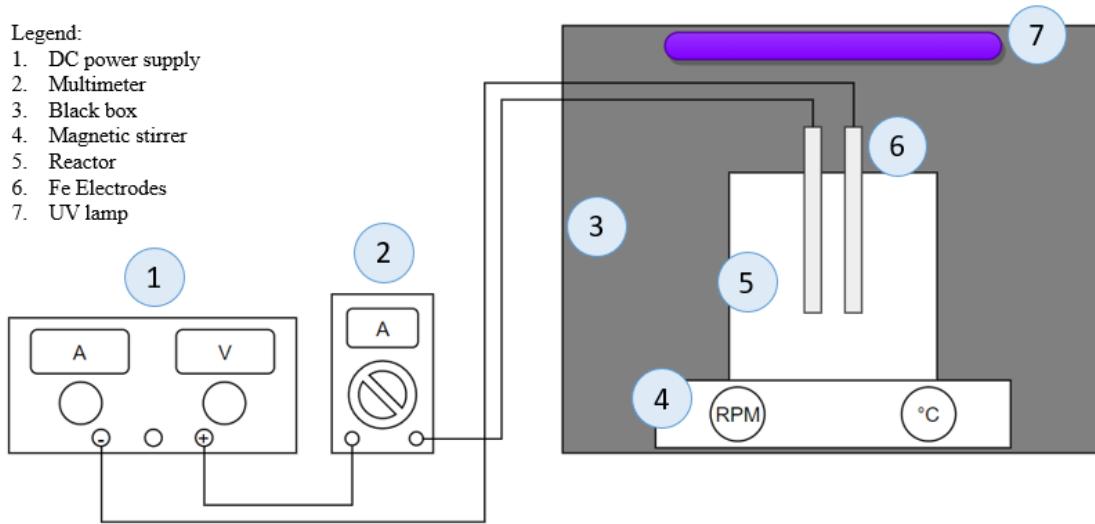


Figure S1. Schematic diagram of the electrochemical reactor.

Table S1. Summary of experimental conditions.

Run	EC-based Treatment Comparison	Arsenic Speciation Experiment	Scavenging Experiment
Treatment	EC, ECP, PECP	EC, H ₂ O ₂ oxidation, ECP, PECP	ECP, PECP
Total treatment time, min	30	5	5
Initial As(III) concentration, µg/L	~500	~300	~300
Initial pH	7	7	7
Active electrode area, cm ²	5	5	5
Inter-electrode distance, cm	2	2	2
Charge dosage rate, C/L/min	1	1	1
Electrolyte (NaCl) concentration, g/L	5	5	5
H ₂ O ₂ concentration, mg/L	5	5	5
Dissolved oxygen concentration, mg/L	(ambient)	< 2	< 2
Measured response/s	As(tot) concentration	As(III) and As(tot) concentrations	As(III) and As(tot) concentrations