

Supplementary Information

Galvanostatic Removal of Pb²⁺ Ions from Diluted Solutions by the Use of a Membrane-Less Flow-Through Cell with Stainless Steel Wool Electrodes

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Table S1. Summary of the ANOVA with the data obtained using the CCRD (Table 1) for the current efficiency (Φ^e), for a 30 min electrolysis

Source of variation	Sum of squares	Degrees of freedom	Mean square (MS)	F_{ratio} (model significance, MS)
Regression (R)	411.99	5	82.40	$MS_R/MS_r = 34.50^a$
Residual (r)	11.49	5	2.39	
Lack of fit (Lof)	11.42	3	3.81	$MS_{Lof}/MS_{Pe} = 14.63^b$
Pure error (Pe)	0.52	2	0.26	
Total	423.93	10	–	

Determination coefficient: 0.972; $^aF_{3,5} = 5.05$; $^bF_{3,2} = 19.16$ (at 95% confidence level).

Table S2. Summary of the ANOVA with the data obtained using the CCRD (Table 1) for the specific electric energy consumption (w) after a 30 min electrolysis

Source of variation	Sum of squares	Degrees of freedom	Mean square (MS)	F_{ratio} (model significance, MS)
Regression (R)	788611.95	5	157722.39	$MS_R/MS_r = 35.12^a$
Residual (r)	22452.50	5	4490.50	
Lack of fit (Lof)	19392.36	3	6464.12	$MS_{Lof}/MS_{Pe} = 4.22^b$
Pure error (Pe)	3060.15	2	1530.07	
Total	811064.45	10	–	

Determination coefficient: 0.973; $^aF_{3,5} = 5.05$; $^bF_{3,2} = 19.16$ (at 95% confidence level).

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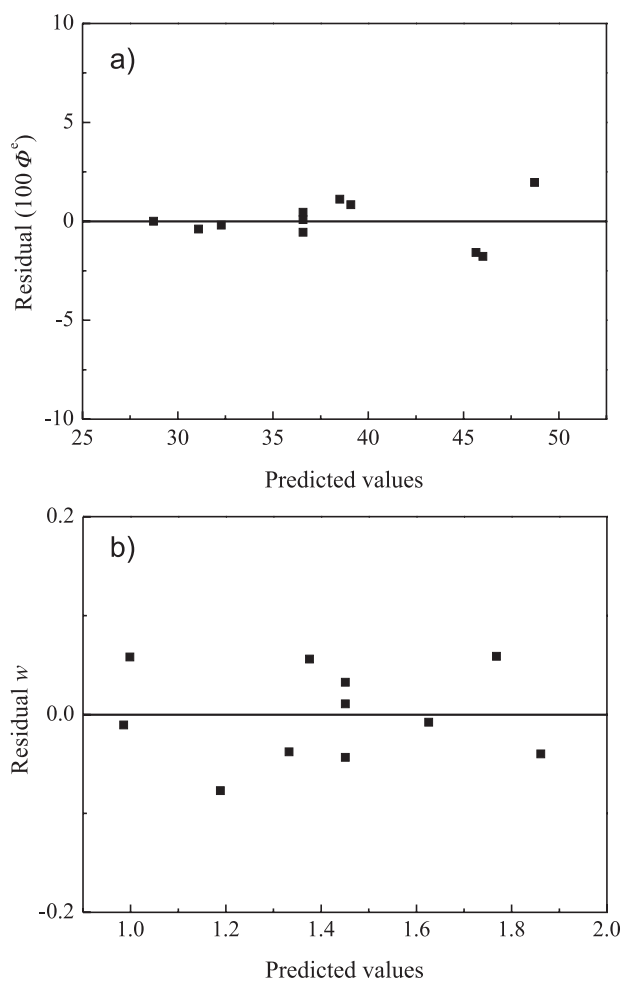


Figure S1. Residual plots for the models of (a) current efficiency (Φ^e) and (b) specific energy consumption (w) for a 30 min of electrolysis under galvanostatic condition, using the flow-through cell with SSW cathodes and anode.

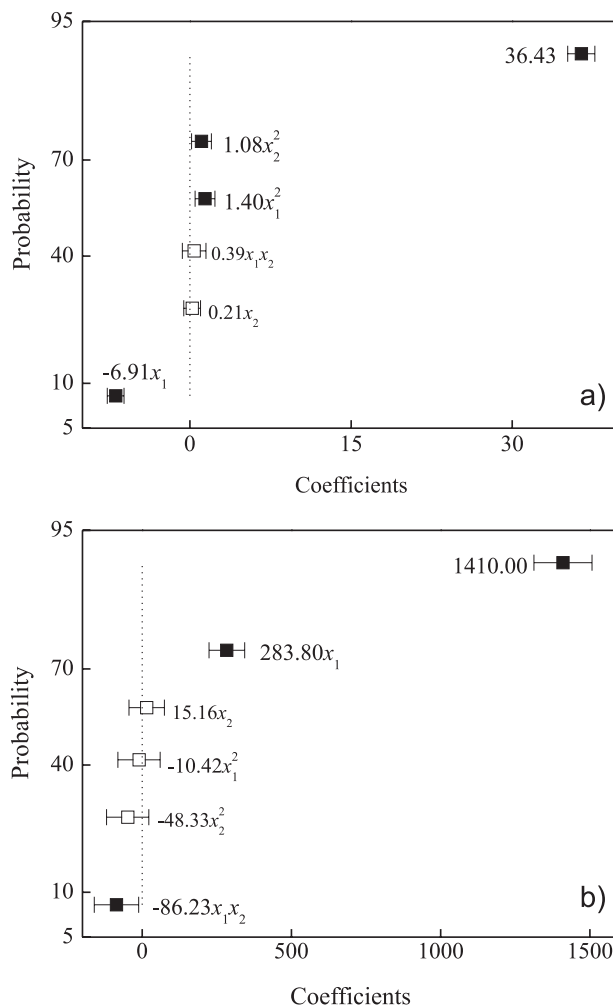


Figure S2. Normal probability plots for the models of (a) current efficiency (Φ^e) and (b) specific energy consumption (w) for 30 min of electrolysis under galvanostatic condition, using the flow-through cell with SSW cathodes and anode.