

Supplemental files

Table S 1. The average Range analysis of TP removal by Mg.

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average Range analysis of TP removal by Al

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Table S 7. Kinetic analysis of the effect of electrode spacing on TP
removal

Table S 1. The average Range analysis of TP removal by Mg

level	ED	pH	Voltage
1	88.91	80.71	74.50
2	85.59	82.09	80.02
3	80.95	85.23	85.86
4	73.98	81.41	89.05
rang	14.93	4.52	14.55
rank	1	3	2

Table S 2. The average Range analysis of TP removal by Al

level	ED	pH	Voltage
1	84.17	78.25	47.92
2	79.77	72.88	64.03
3	67.90	60.20	77.37
4	43.52	64.02	86.01
rang	40.65	18.04	38.09
rank	1	3	2

Table S 3. The average Range analysis of TP removal by Fe

level	ED	pH	Voltage
1	33.25	21.4	17.22
2	28.42	25.20	21.91
3	23.08	27.55	29.25
4	16.19	26.79	32.56
rang	17.07	6.15	15.34
rank	1	3	2

“Delta” was the maximum average for each level of each factor minus minimum average. The lager of delta, the higher the rank.

Table S 4. The average Range analysis of anode consumption by Mg

level	ED	pH	Voltage
1	8.41	3.70	1.91
2	3.28	4.38	3.93
3	3.31	4.17	4.51
4	2.16	4.91	6.81
rang value	6.25	1.20	4.90
rank	1	3	2

Table S 5. The average Range analysis of anode consumption by Al

level	ED	pH	Voltage
1	5.32	1.88	1.03
2	2.17	2.23	2.00
3	1.53	3.08	3.25
4	1.10	2.94	3.85
rang value	4.22	1.20	2.82
rank	1	3	2

Table S 6. The average Range analysis of anode consumption by Fe

level	ED	pH	Voltage
1	9.04	4.85	2.46
2	4.05	4.82	4.39
3	4.04	4.39	6.14
4	2.62	5.70	6.77
rang value	6.42	1.31	4.31
rank	1	3	2

Table S 7. Kinetic analysis of the effect of electrode spacing on TP removal

Kinetic model	Mg	Al	Fe
First order	K1=0.066	K1=0.0564	K1=0.0085
	R2=0.892	R2=0.956	R2=0.976
Second order	K2=0.027	K1=0.0036	K1=0.0001
	R2=0.989	R2=0.944	R2=0.983