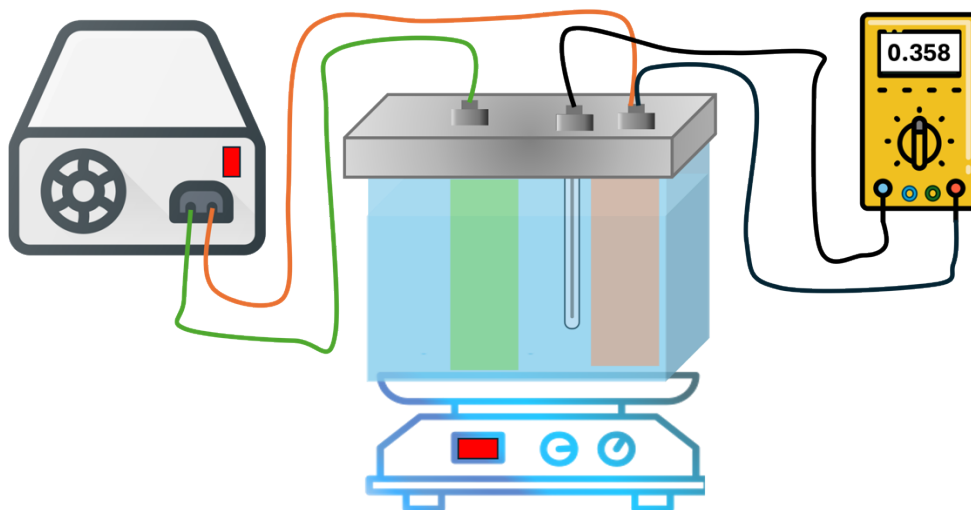


Supplementary information

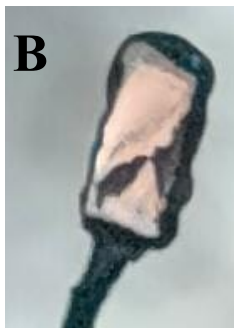
Alternating pulse approach for electrochemical production of struvite as an alternative for phosphorous recovery

Enrique Rodriguez Nuñez^a, Guadalupe Aguilar Vázquez^b, Adrian Sosa^a, Rufino Nava^c and Arely Cardenas^d

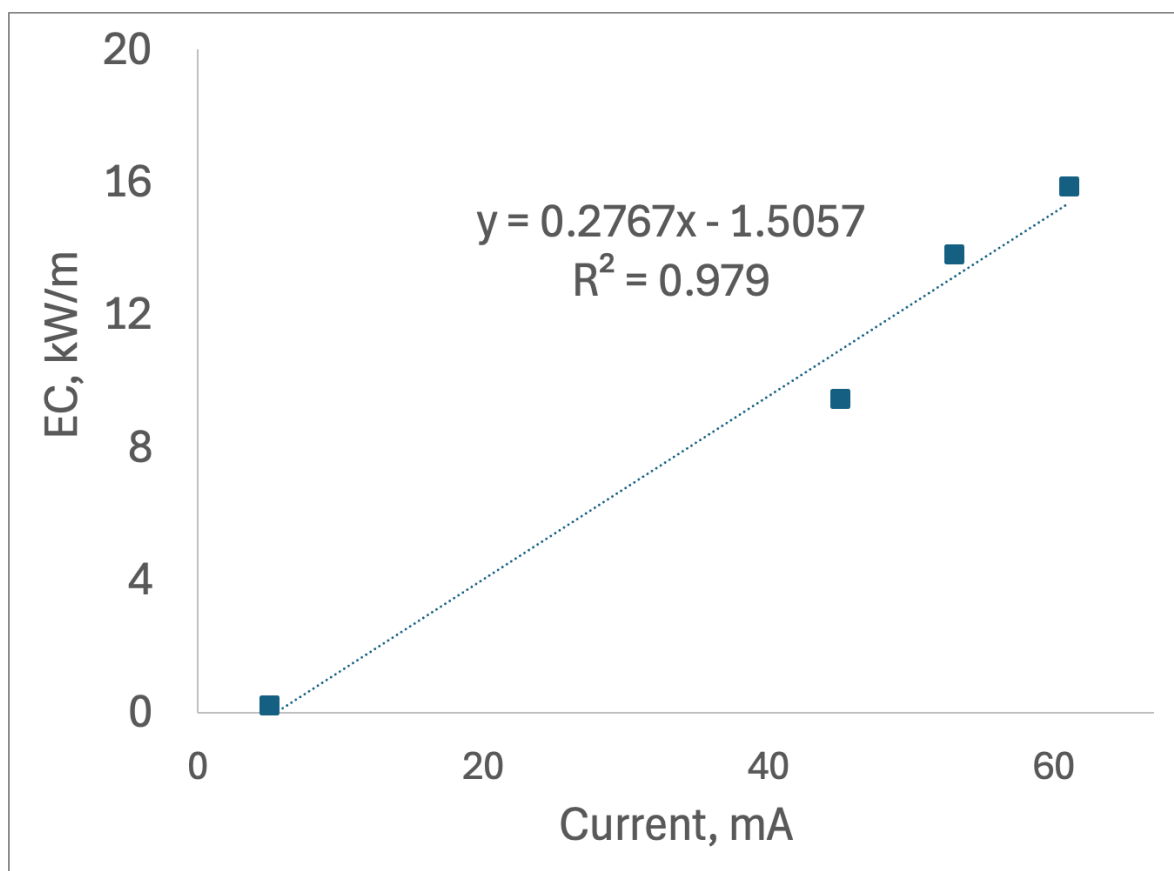
SI1. Scheme of the set up in the electrochemical cell for the measurement of potential in the working electrode, by accoupling a reference electrode and a multimeter



SI2. Images of the different stages and changes observed in the working during the linear voltammetry. A. Bubbling zone, small bubbles are formed in the surface of the working electrode. B. Change from a smooth surface to an irregular. C. Formation of a white film in the electrodes surface.



SI3. Correlation of applied current and Electrical consumption in the system



SI4.A One-way ANOVA for difference of means using a Tukey's test with 95% of confidence.

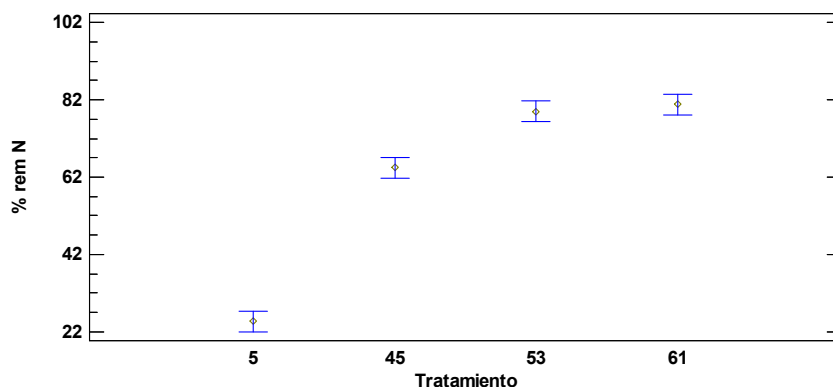
i, mA	n	Mean		Group	
		N- NH_4^+	P- PO_4^{3-}	N- NH_4^+	P- PO_4^{3-}
5	4	69.43	78.88	A	A
45	4	34.55	26.69	B	B
53	4	21.04	23.17	B C	B
61	4	19.15	9.15	C	C
Mean square		2721.12	3735.80		
F ratio		224.06	593.88		

*Indicates that there is not a significant difference

SI4.B. ANOVA analysis with 95% of confidence N- NH_4^+

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
Between groups	8163.37	3	2721.12	224.06	0.0000
Within groups	145.737	12	12.1447		
Total (Corr.)	8309.1	15			

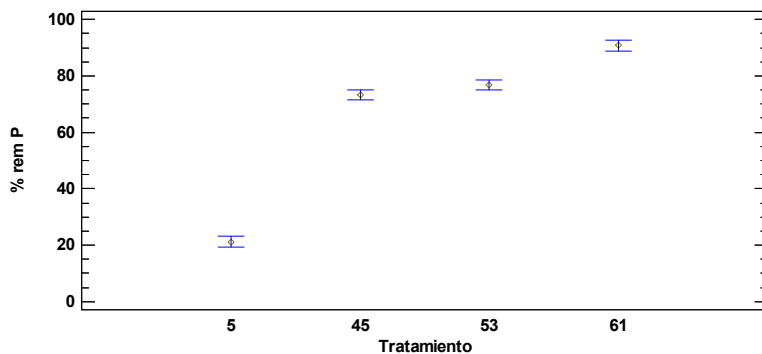
Means and 95.0 Percent LSD Intervals



SI4.C. ANOVA analysis with 95% of confidence P- PO_4^{3-}

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
Between groups	11207.4	3	3735.8	593.88	0.0000
Within groups	75.4863	12	6.29053		
Total (Corr.)	11282.9	15			

Means and 95.0 Percent LSD Intervals



SI 5. Linear regression of concentration of $(\text{PO}_4)^{3-}$ as NaH_2PO_4 vs absorbance and ammonia as NH_4Cl vs absorbance.

