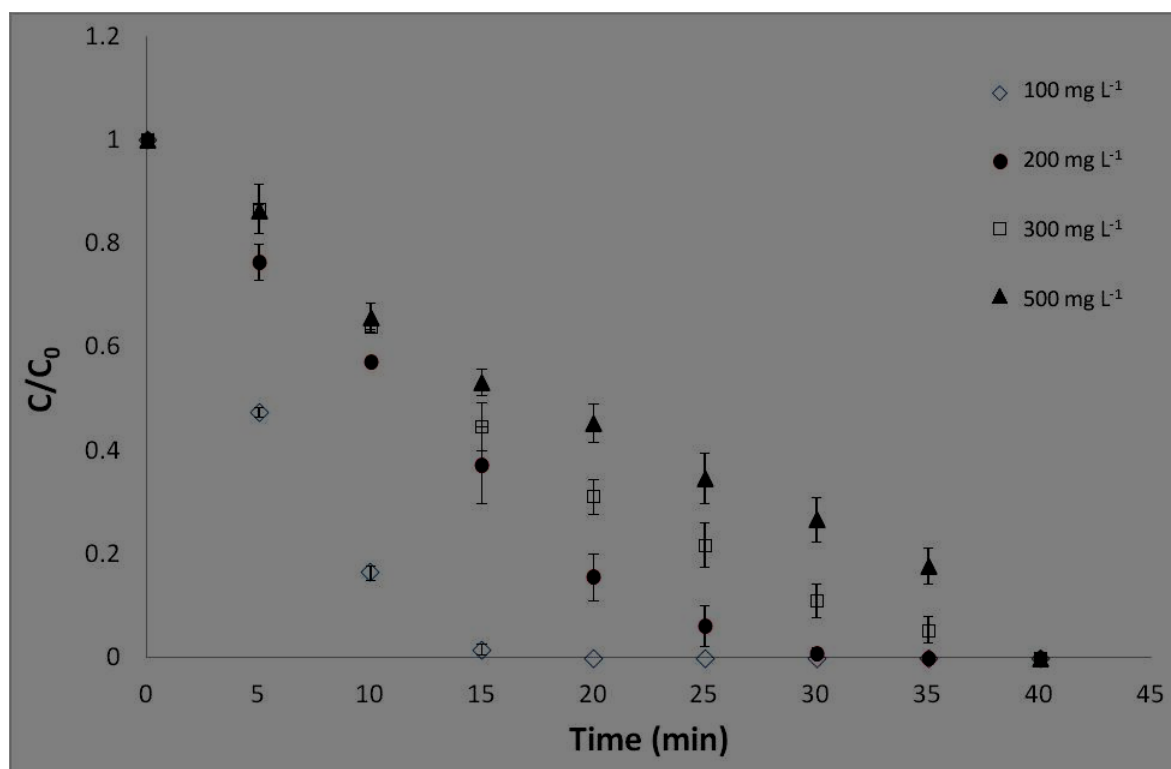
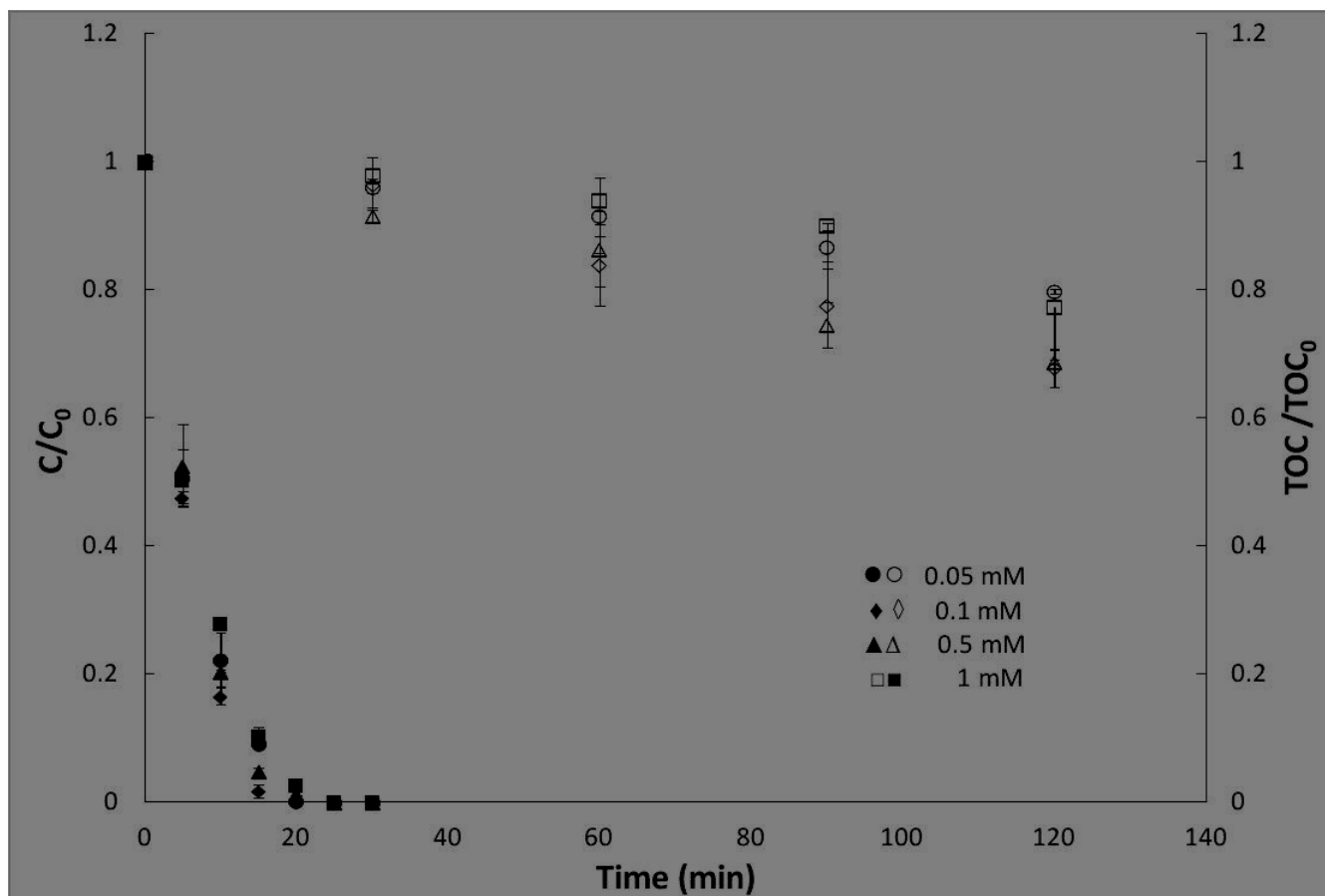


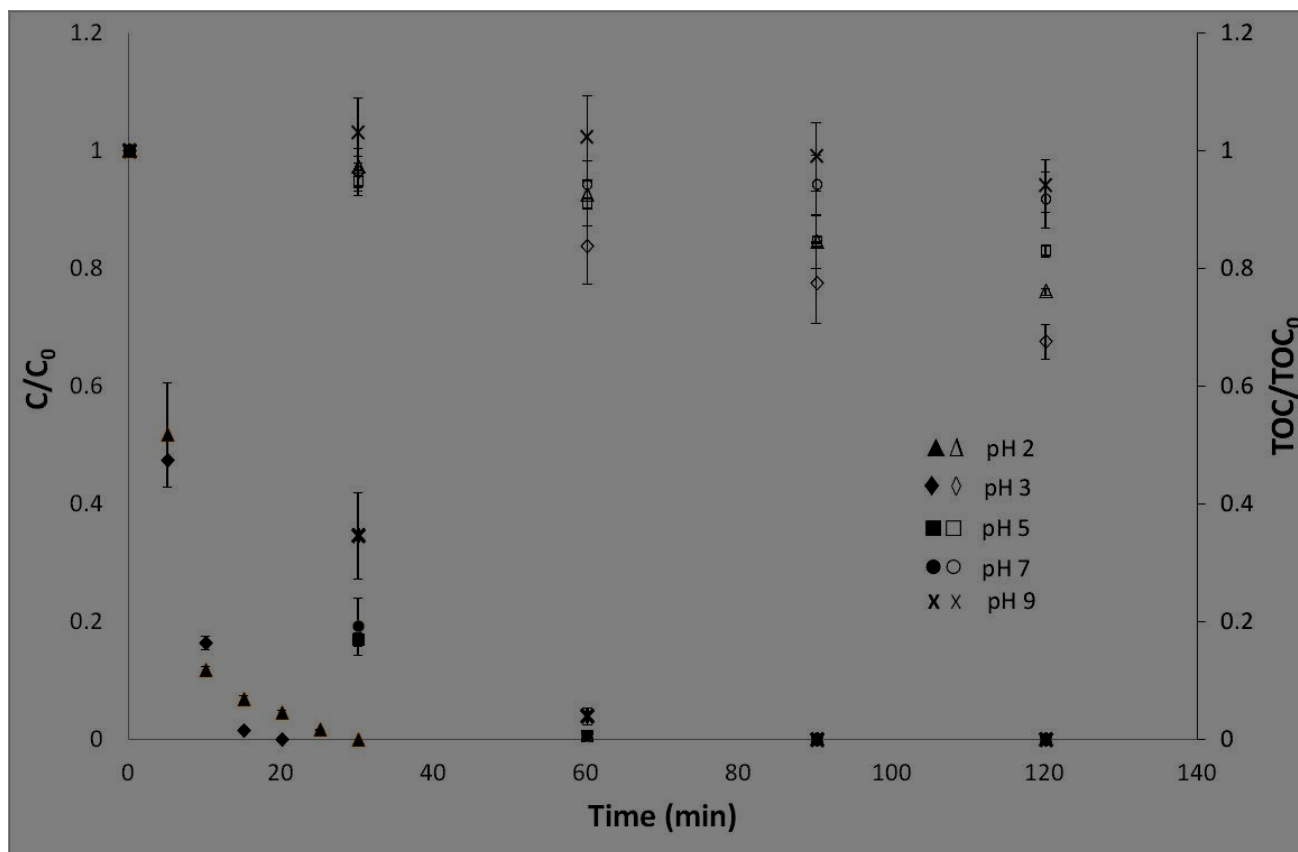
## Supplementary material



**Figure SM-1:** Time-course of MTZ degradation during electrolysis for different initial concentrations. Experimental conditions:  $[\text{Fe}^{2+}] = 0.1 \text{ mM}$ ,  $I = 0.07 \text{ mA cm}^{-2}$ ,  $\text{pH} = 3$ ,  $\text{Na}_2\text{SO}_4 = 50 \text{ mM}$ ,  $V = 250 \text{ mL}$ .



**Figure SM-2:** Effect of the ferrous ions concentration on the MTZ degradation (filled symbols) and its mineralization (empty symbols) during electrolysis at  $0.07 \text{ mA cm}^{-2}$ , with  $100 \text{ mg L}^{-1}$  initial MTZ concentration and  $50 \text{ mM Na}_2\text{SO}_4$  at pH 3



**Figure SM-3:** Effect of the pH on the MTZ degradation (filled symbols) and its mineralization (empty symbols). Experimental conditions:  $C_0 = 100 \text{ mg L}^{-1}$ ,  $[\text{Fe}^{2+}] = 0.1 \text{ mM}$ ,  $\text{Na}_2\text{SO}_4 = 50 \text{ mM}$ ,  $V = 250 \text{ mL}$ .