

Supporting information

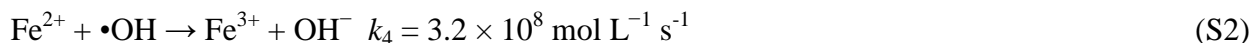
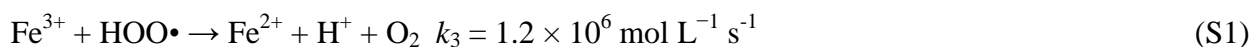
Carbon Nanotube/Prussian Blue Nanocomposite Film as a New Electrode Material for Environmental Treatment of Water Samples

Edson Nossol^{1,2}, Arlene B. S. Nossol¹, Aldo J. G. Zarbin^{2} and Alan M. Bond^{1*}*

¹School of Chemistry, Monash University, Clayton, Vic 3800, Australia

²Departamento de Química, Universidade Federal do Paraná (UFPR), CP 19081, CEP 81531-990, Curitiba-PR-Brazil.

Competitive reactions that can also occur affecting the total Fenton process:



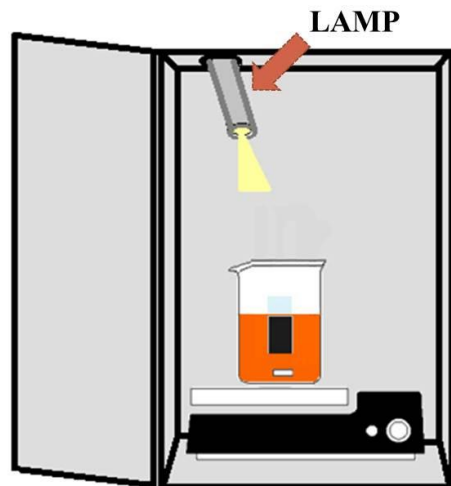


Figure S1. Experimental setup for photochemical-Fenton (PF) process

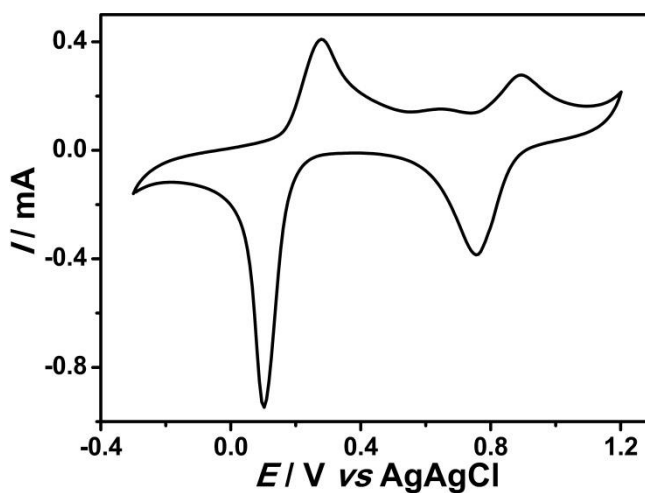


Figure S2. Cyclic voltammogram obtained for a CNT/PB film in a 0.1 mol L^{-1} KCl aqueous solution with a scan rate of 50 mV s^{-1} .

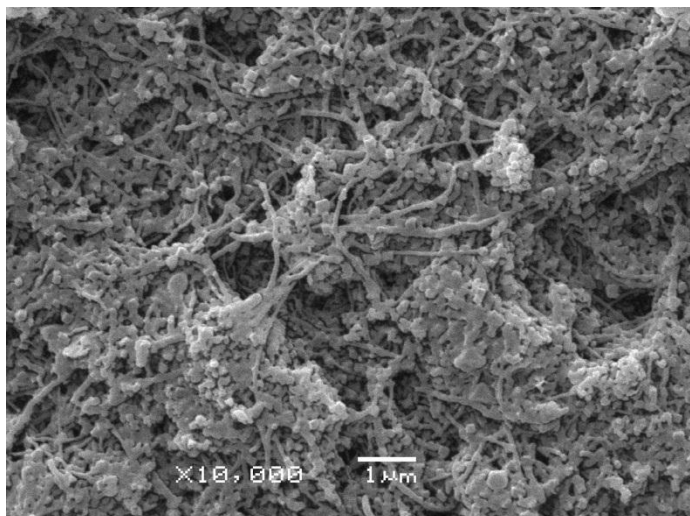


Figure S3. Scanning electron microscopy image obtained from the CNT/PB film.

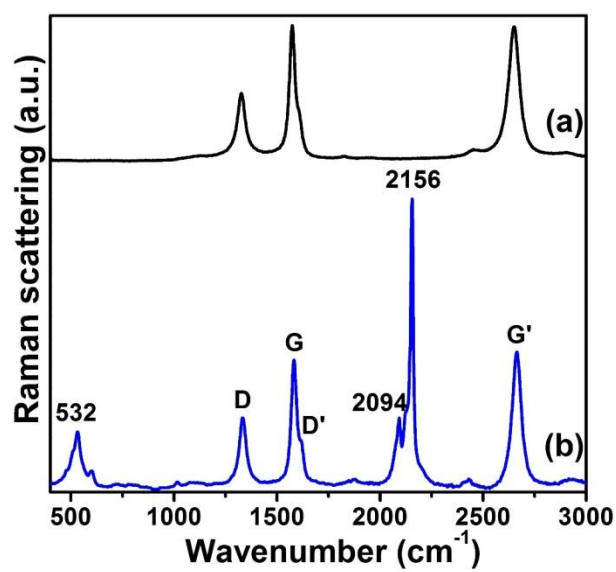


Figure S4. Raman spectra ($\lambda = 632.8$ nm) of the CNT (a) and CNT/PB film (b).

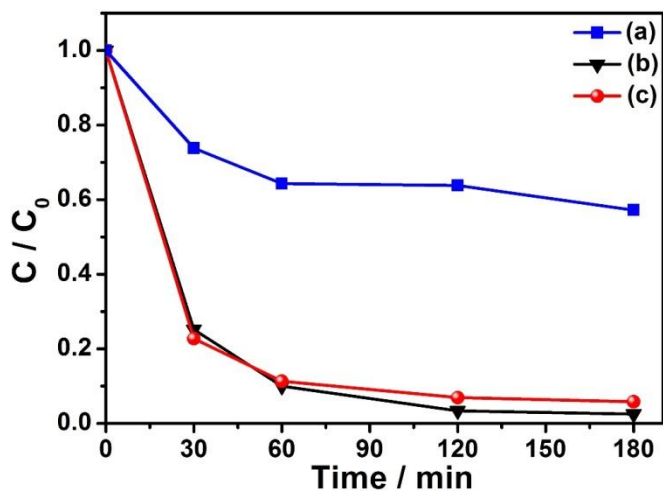


Figure S5. Influence of KCl concentration (a) 0.05, (b) 0.1 and (c) 0.2 mol L⁻¹ on MO degradation using a PEF process.

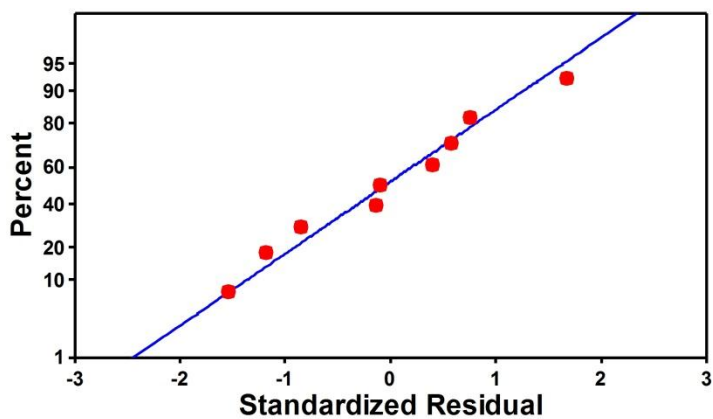


Figure S6. Normal probability plot of residuals *versus* MO degradation percentages.

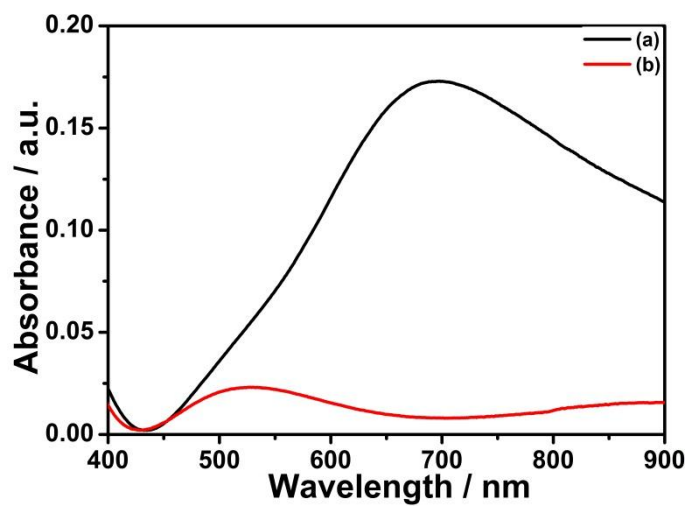


Figure S7. UV-Vis spectra derived from a PB film on ITO before (a) and after (b) MO degradation using a PEF process.