Electronic Supplementary Material (ESI) for RSC Advances

Degradation of aniline with zero-valent iron as an activator of persulfate in aqueous solution

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Supporting Information

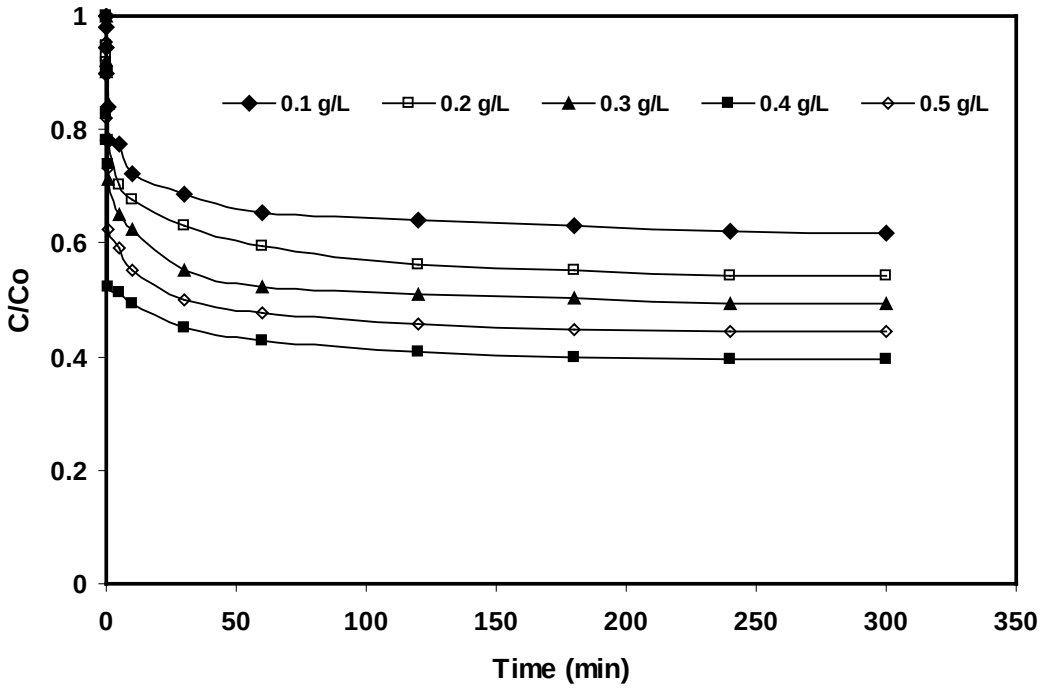

Fig. 1. Effect of Fe^{2+} dosages on aniline degradation in persulfate- Fe^{2+} system. $[Aniline]_0$ = 0.05 mM; Temp. = 25℃; $[PS]_0$ = 2.5 mM; pH = 7.0.

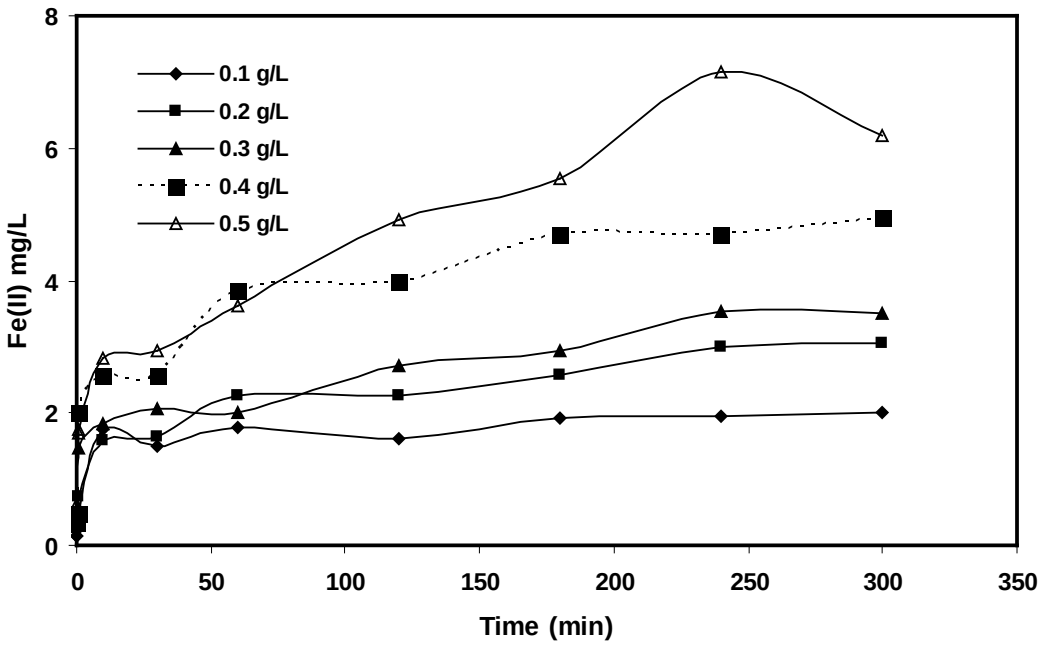

Fig. 2. Fe^{2+} concentration in the persulfate-ZVI system. $[Aniline]_0$ = 0.05 mM; $[PS]_0$ = 2.5 mM; Temp. = 25℃; [ZVI] = 0.1–0.5 g L^{-1}; pH = 7.0.

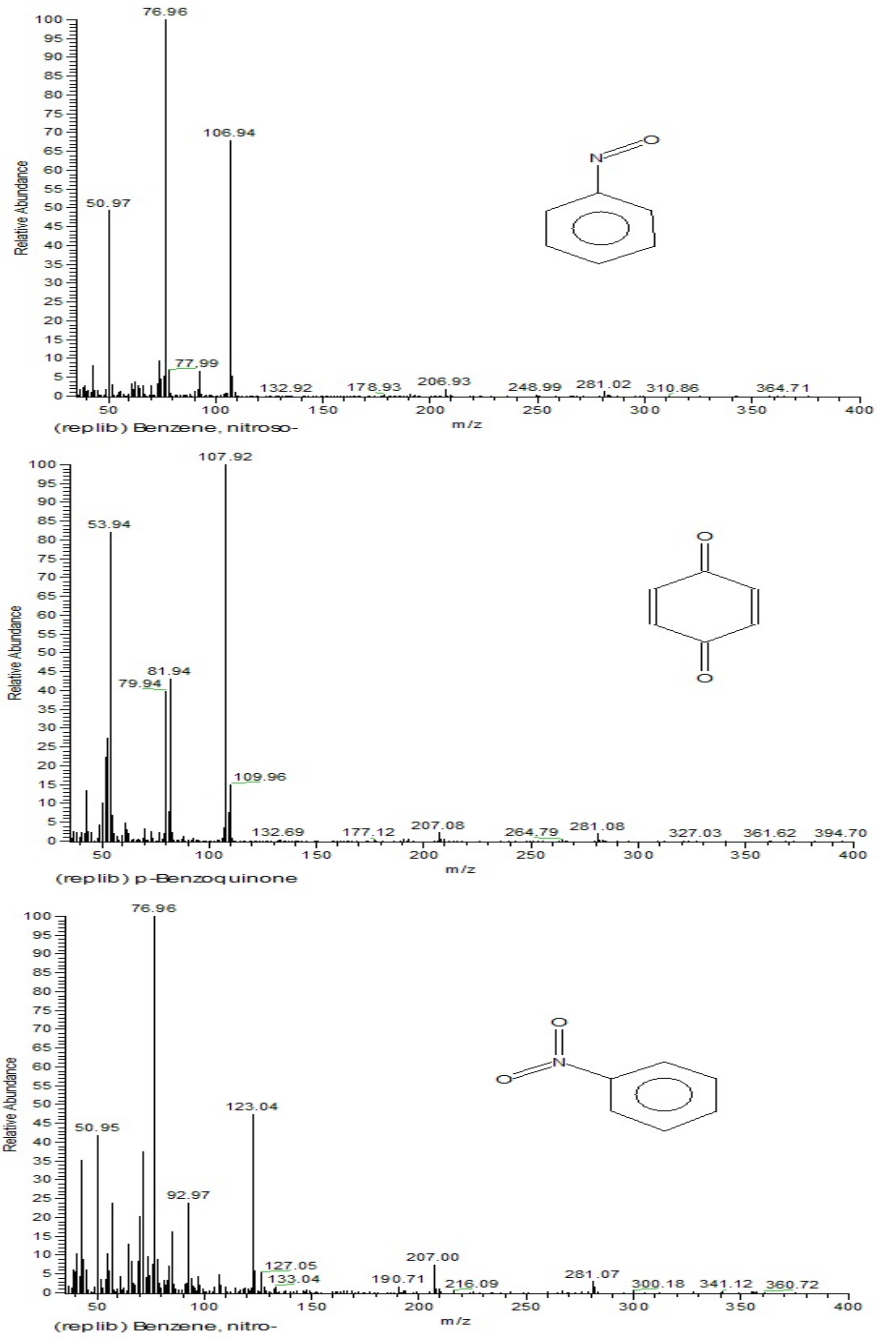

Fig.3 EI mass spectrum of main intermediates of aniline by persulfate-ZVI system with GC /MS