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Fig Sup. Caption

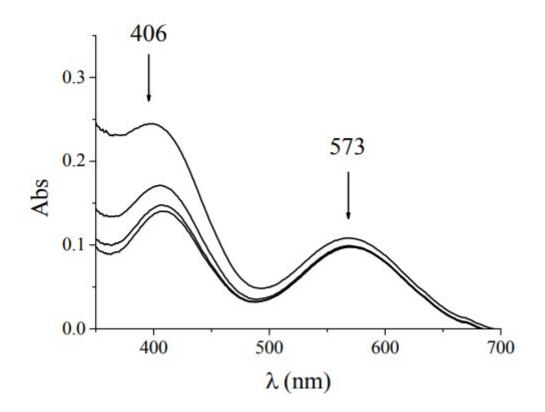


Fig. S1. Time evolution of the QA/Cr^{VI} reaction as followed by UV-vis absorption spectroscopy. $[H^+] = 0.10 \text{ M}$; I = 1.0 M; $[Cr^{VI}]_0 = 6.0 \times 10^{-3} \text{ M}$; [QA] = 0.30 M; $T = 33.0^{\circ}$ C. First trace was taken at t = 15 min, the time between each trace was 4.0 min. First trace shown taken at t=0, the time between spectrum is 20 min.

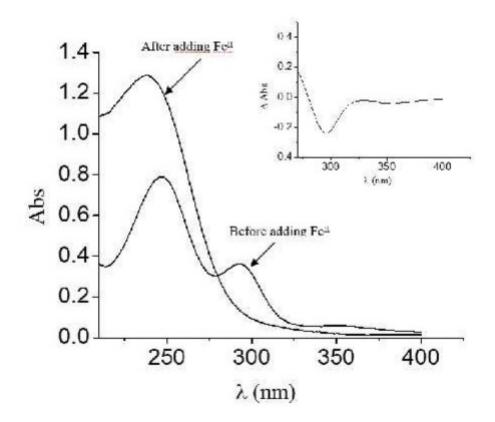


Fig. S2. Cr^{IV}/Fe^{II} reaction: differential spectra at 290 nm, consistent with the presence of $CrO_2^{2^+}$. [H⁺] = 0.30 M; I = 1.0 M; [Cr^{IV}]₀ = 0.07 mM; [QA] = 0.003 M; T = 15.0°C; [O_2] = 1.26 mM, Fe^{II} = 0.8 mM.