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Supplementary information

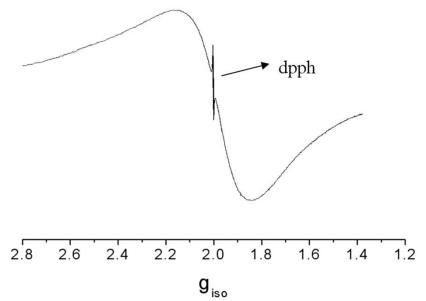


Fig. S1: Experimental X-band CW-EPR spectrum of Cr^{III} species. [Glucar] = 30 mM, $[H^+] = 0.1$ M; $[Cr^{VI}] = 0.05$ mM; F = 9.76759 GHz; Mod.Amp. = 2.0 G, Sweep Width = 500.0 G, T = 14 °C, $\mu = 1.0$ M. The spectrum was collected after 2.0 hs of mixing the reactives.

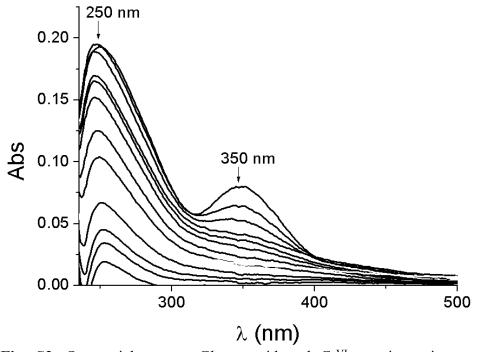


Fig. S2: Sequential spectra Glucar acid and Cr^{VI} reaction mixtures in anaerobic conditions: [Glucar] = 40 mM, [HClO₄] = 1.0 M, [Cr^{VI}] = 0.06 mM, μ = 1.0 M, T = 25°C, Ar atmosphere. Spectra were recorded every 3.0 min. No band at 290 nm was observed