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Supplementary Information

Ligand control in photochemical generation of high-valent porphyriniron-oxo derivatives

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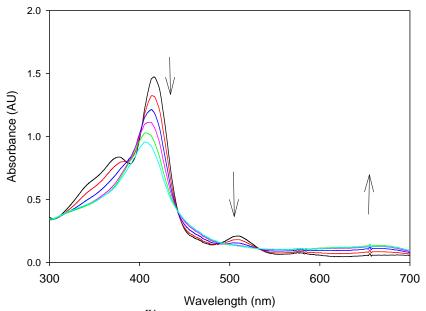


Fig. S1. UV-visible spectra of Fe^{IV}(O)(TMP)⁺⁻ (**3a**) produced by oxidation of Fe^{III}(TMP)Cl with mCPBA (20 equiv.) in CH₃CN over 80 s.

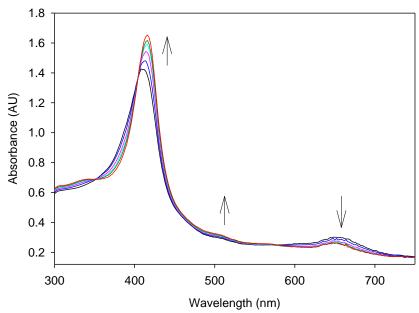


Fig. S2. Time-resolved spectra for the reaction of photo-generated **3a** with *cis*-cyclooctene (0.5 mM) over 50 s in CH₃CN at 22 °C.

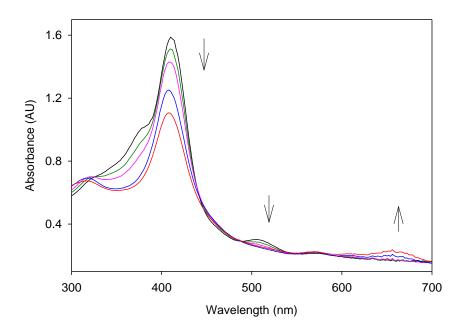


Fig. S3. Time-resolved spectra of **3b** $(8.0 \times 10^{-6} \text{ M})$ following irradiation of **2b** with visible light (100 W) in anaerobic CH₃CN solution at 22 °C. Spectra were recorded at t = 0, 1, 3, 5 and 6 min.