

Supplementary Material (ESI) for Dalton Transactions
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Electronic Supplementary Information (ESI)

Mechanistic studies on oxidation of nitrite by a $\{\text{Mn}_3\text{O}_4\}^{4+}$ core in aqueous acidic media

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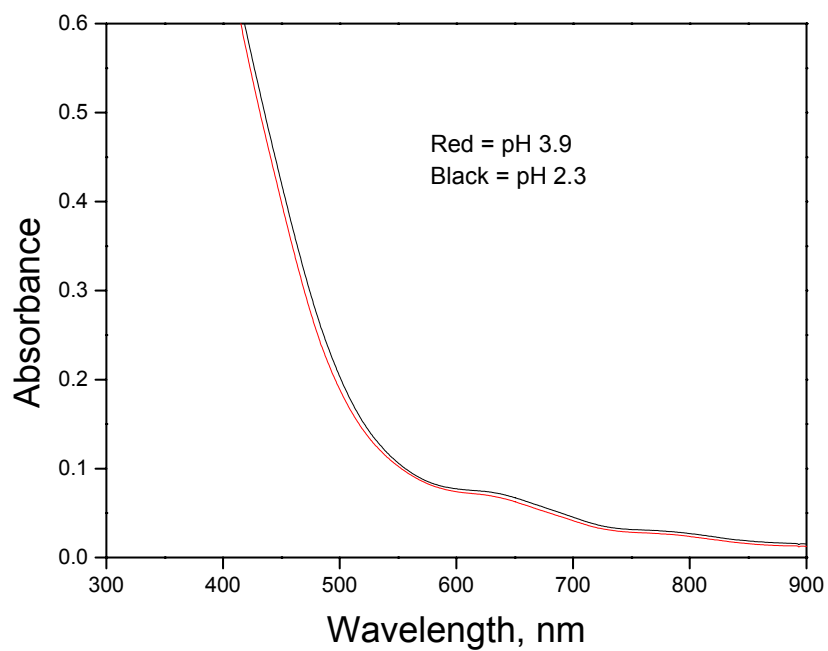


Figure S1. UV-Vis spectrum of $[\text{Mn}^{\text{IV}}_3(\mu\text{-O})_4(\text{phen})_4(\text{H}_2\text{O})_2]^{4+}$ (**1**) in water at pH 2.3 and at pH 3.9 in presence no externally added phen. Both at $I = 1.0 \text{ M}$ (NaNO_3), $T = 25.0 \text{ }^\circ\text{C}$. phen = 1,10-phenanthroline.

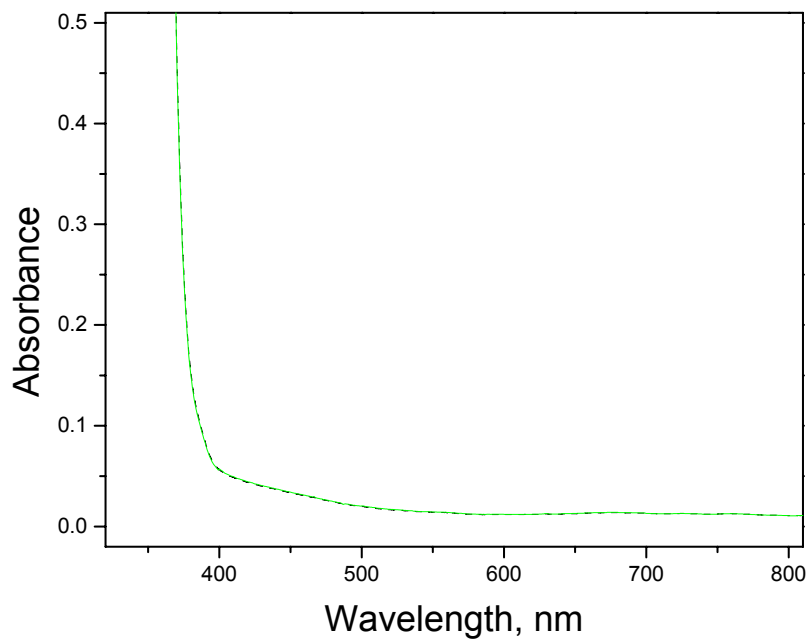


Figure S2. Optical spectrum (shown in black) of product solution when 0.10 mM of $[\text{Mn}^{\text{IV}}_3(\mu\text{-O})_4(\text{phen})_4(\text{H}_2\text{O})_2]^{4+}$ (**1**) is reacted with 10.0 mM N(III) in aqueous media at pH 3.65 in presence 5.0 mM phen. The spectrum shown in green is that of a mixture of 0.30 mM $\text{Mn}(\text{NO}_3)_2$ and 5.0 mM phen at pH 3.65. Both at $I = 1.0 \text{ M}$ (NaNO_3), $T = 25.0 \text{ }^\circ\text{C}$. phen = 1,10-phenanthroline.