

Electronic Supplementary Information

for

Apically linked iron(II) α -dioximate and α -oximehydrazonate bis-clathrochelates with hydrocarbon spacer substituents and their semi- and monoclathrochelate precursors and analogs: synthetic strategy, structure, redox and electrocatalytic properties

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Table S1 The maxima (λ_{max} , nm ($\varepsilon \cdot 10^{-3}$, mol⁻¹ l cm⁻¹)) of the UV–vis spectra for the dioximate and oximehydrazone bis-semi- and -clathrochelates obtained and their monomacrobicyclic analog.

Complex	λ_1 (ε_1)	λ_2 (ε_2)	λ_3 (ε_3)	λ_4 (ε_4)	λ_5 (ε_5)	λ_6 (ε_6)	λ_7 (ε_7)	λ_8 (ε_8)	λ_9 (ε_9)
FeNx ₃ (Bn-C ₄ H ₉)(BC ₆ H ₅)		247(11)		281(6.9)	297(3.0)	377(2.4)	432(5.4)	455(13)	
{FeNx ₃ (Bn-C ₄ H ₉) ₂ (BC ₆ H ₄ B)		249(21)		283(21)	302(6.7)	357(2.9)	422(2.0)	443(18)	451(19)
{FeNx ₃ (Bn-C ₄ H ₉) ₂ (B(CH ₂) ₃ B)		246(17)		282(12)	294(5.2)	378(5.3)	421(9.2)	451(29)	488(5.2)
[{Fe(DXO) ₃ } ₂ (B(CH ₂) ₃ B)](BF ₄) ₂	219(29)	249(12)		277(22)	300(13)	326(4.0)	414(3.8)	444(7.5)	478(13) 482(6.0)
[{Fe(DXO) ₃ (HCOC ₂ H ₅) ₃ } ₂ (B(CH ₂) ₃ B)](BF ₄) ₂			260(6.3)	273(4.4)	297(11)		420(3.3)	460(6.6)	497(14) 517(3.8)
[{Fe(DXO) ₃ (CH ₂) ₃ } ₂ (B(CH ₂) ₃ B)](BF ₄) ₂	222(43)	242(4.5)	260(17)	285(8.2)	311(5.8)	347(4.7)	416(3.8)	460(7.0)	496(13) 513(7.0)