

Electronic Supplementary Information (ESI)

Preparation of Metalated Azine Complexes of Iridium(III)

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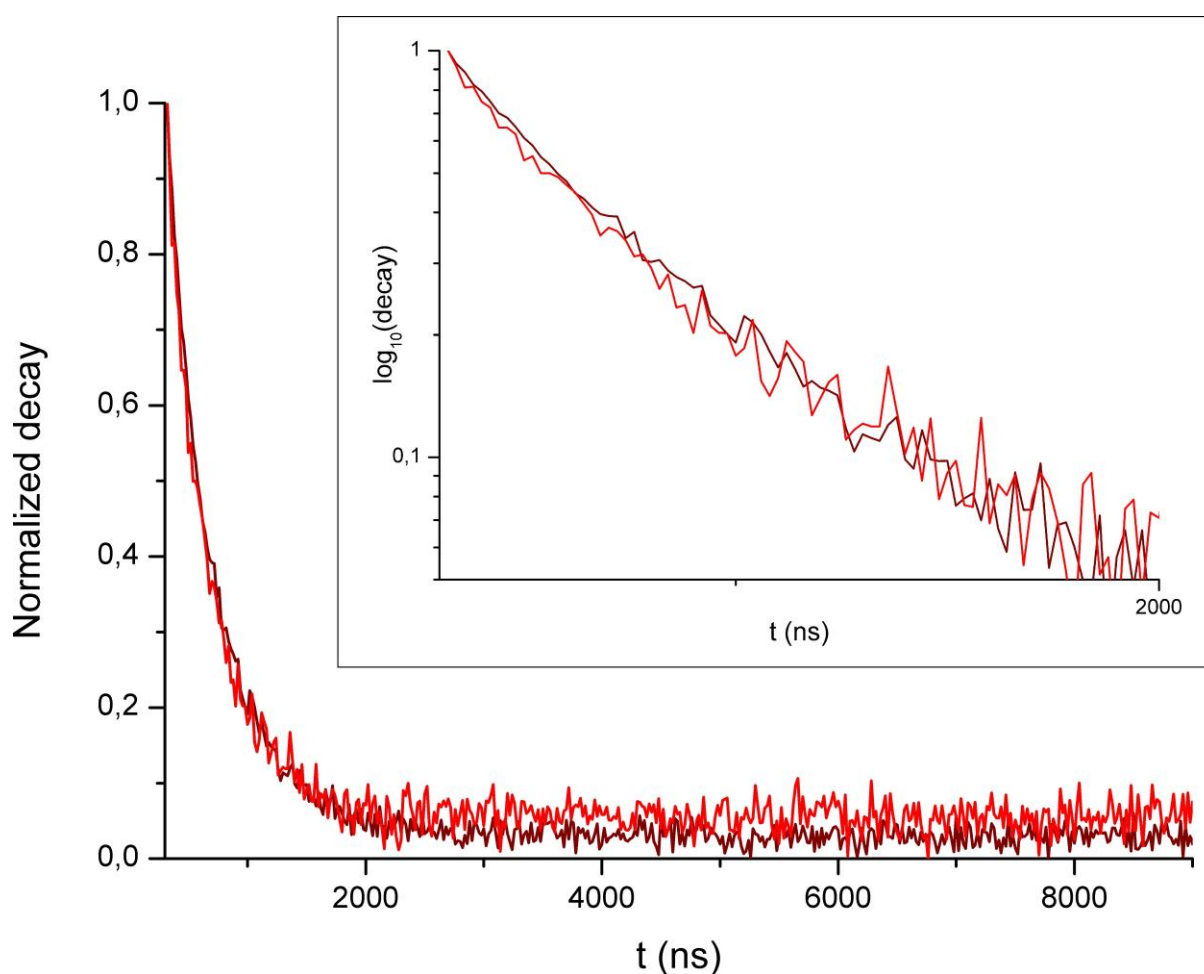


Figure S1. Luminescence decay curves of $[\text{Ir}\{\kappa^2\text{-C}_6\text{H}_4(\text{H})\text{C}=\text{N}-\text{N}=\text{C}(\text{H})(\text{C}_6\text{H}_5)\}(\eta^5\text{-C}_5\text{Me}_5)\{\text{P}(\text{OR}_1)_3\}]\text{BPh}_4$ complexes (R1 = Me, wine line; R2 = Et, red line). Inset: semi-log plot.

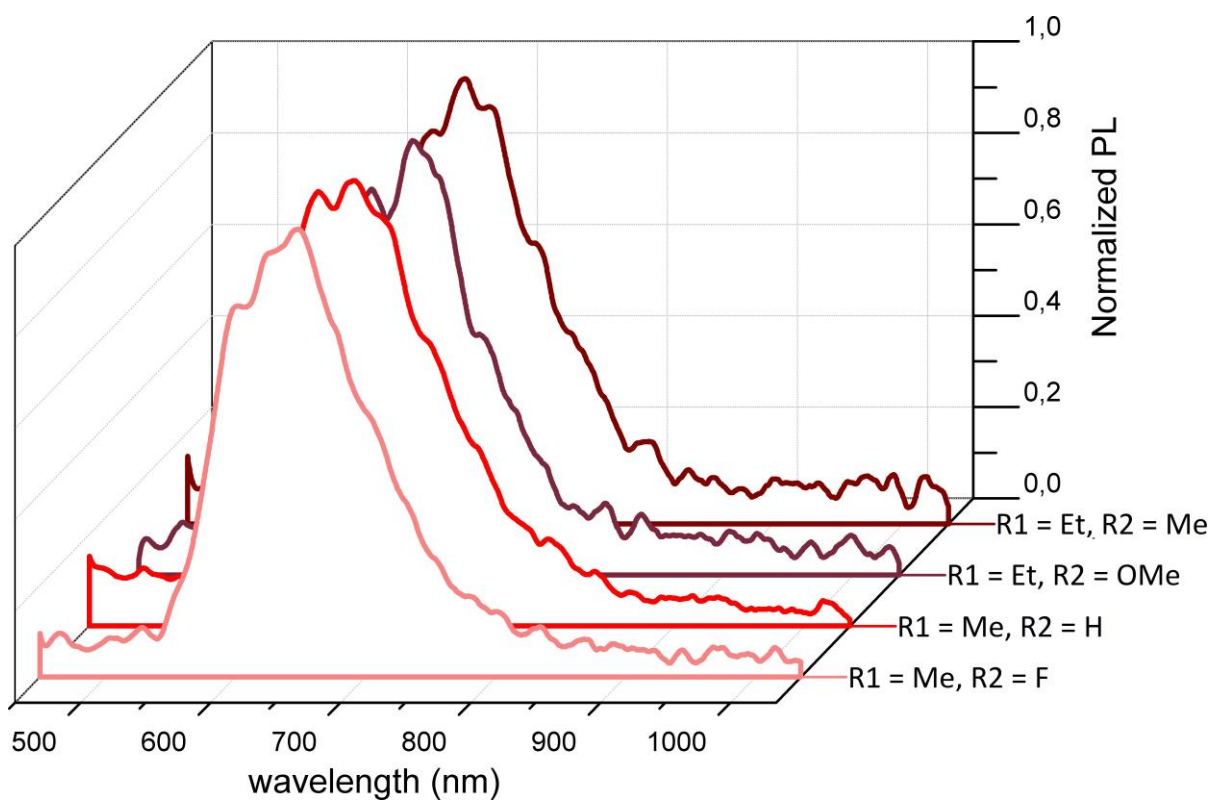


Figure S2. Normalised emission spectra of $[\text{Ir}\{\kappa^2\text{-R}_2\text{C}_6\text{H}_3(\text{H})\text{C}=\text{N}-\text{N}=\text{C}(\text{H})(\text{R}_2\text{C}_6\text{H}_4)\}(\eta^5\text{-C}_5\text{Me}_5)\{\text{P}(\text{OR}_1)_3\}]\text{BPh}_4$ complexes. Solid samples, room temperature, $\lambda_{\text{excitation}} = 405 \text{ nm}$.

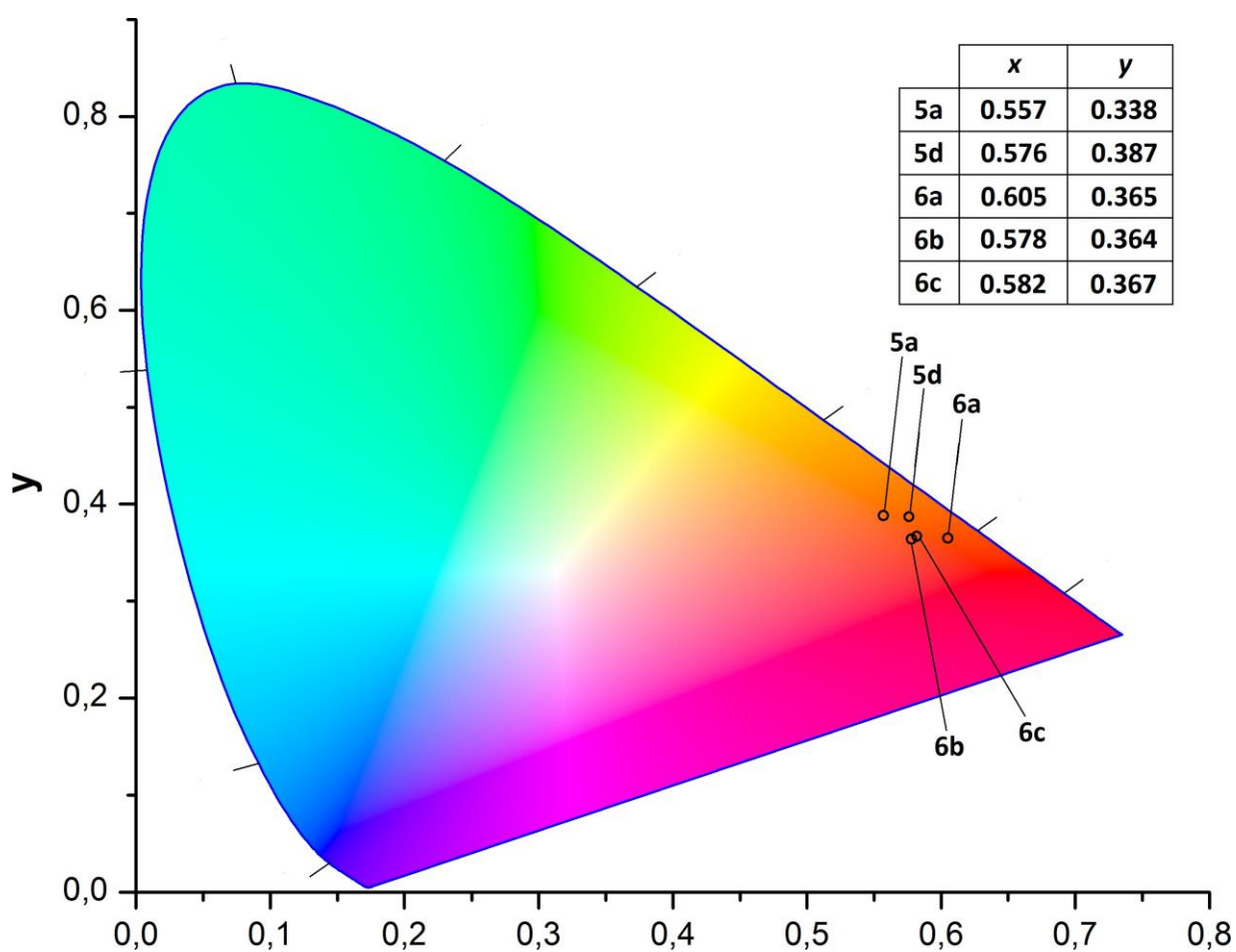


Figure S3. CIE chromaticity diagram (1931 method) showing the emission colours of **5a**, **5d**, **6a**, **6b**, **6c**. Inset: chromaticity coordinates.

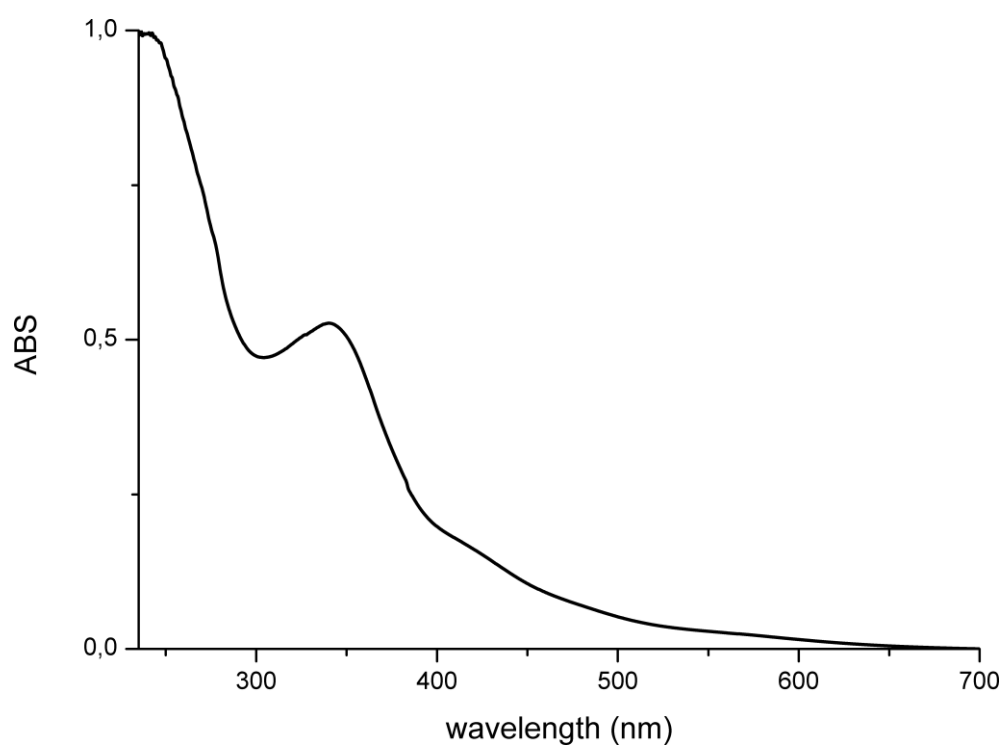


Figure S4. Emission spectrum of $[\text{Ir}\{\kappa^2\text{-4-NO}_2\text{C}_6\text{H}_3(\text{H})\text{C}=\text{N}-\text{N}=\text{C}(\text{H})(\text{C}_6\text{H}_4\text{-4-NO}_2)\}(\eta^5\text{-C}_5\text{Me}_5)\{\text{P}(\text{OMe})_3\}]\text{BPh}_4$ (CH_2Cl_2 solution, room temperature)