

**Cyclometallated, bis-terdentate iridium complexes as linearly expandable cores
for the construction of multimetallic assemblies**

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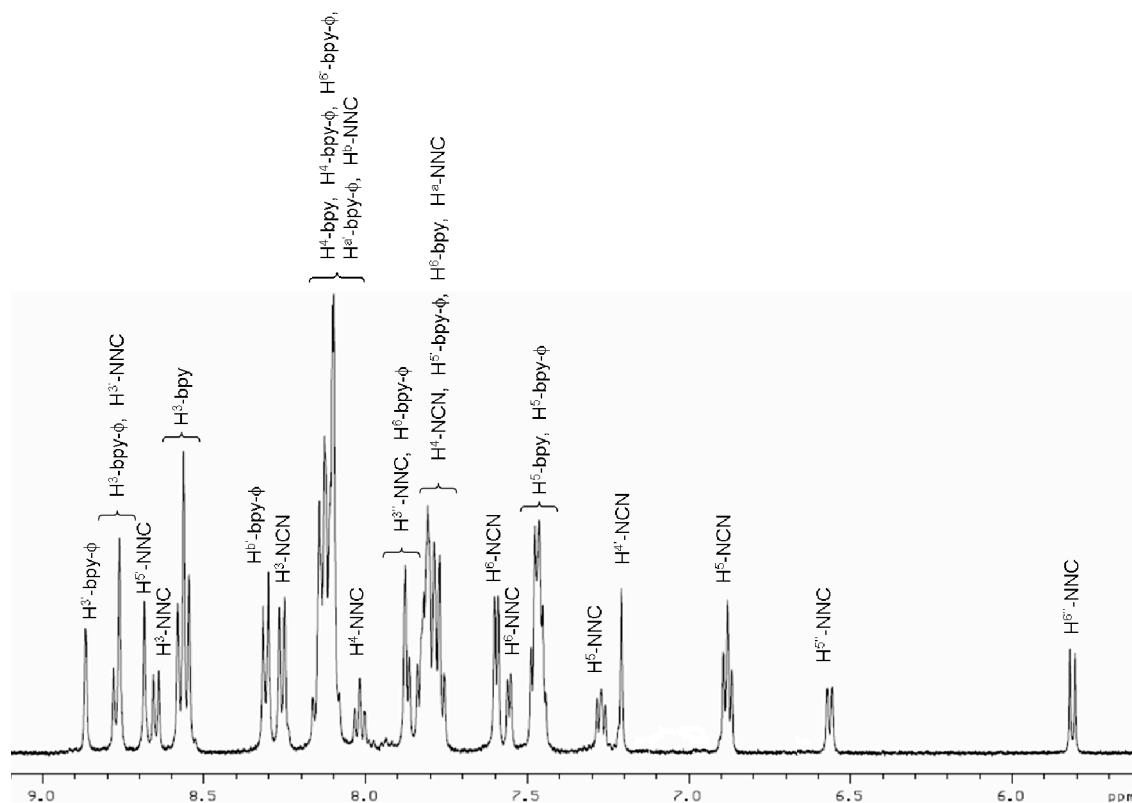


Figure S1 ^1H NMR spectrum of the Ir–Ru compound **8** in CD_3CN at 298 K, assigned on the basis of ^1H - ^1H COSY and NOESY spectra and reference to the spectra of individual constituent complexes.

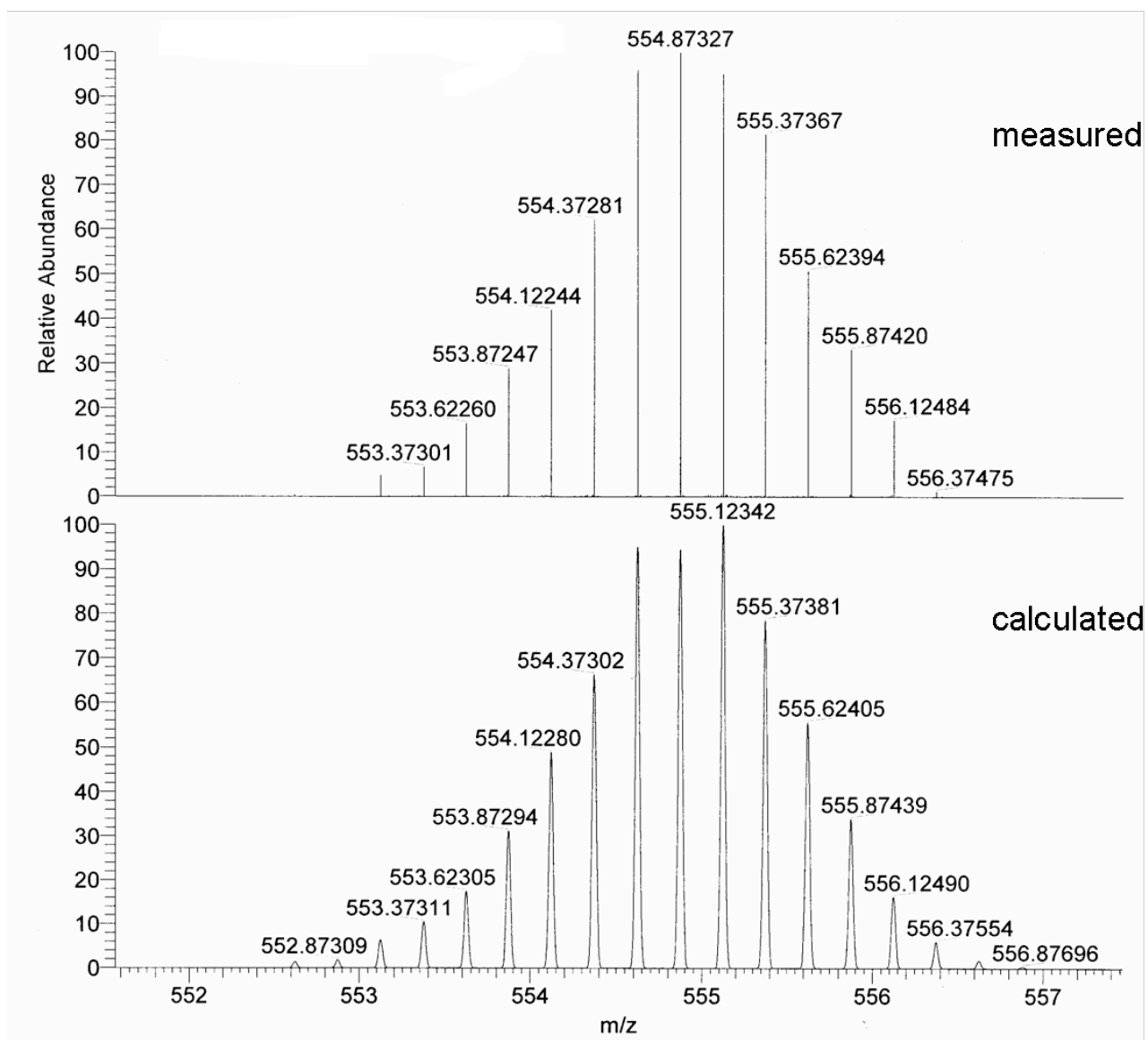


Figure S2 Experimental high-resolution electrospray mass spectrum of the trimetallic compound **11** and the simulated spectrum for C₁₁₅H₈₀F₄Ir₂N₁₄Ru.

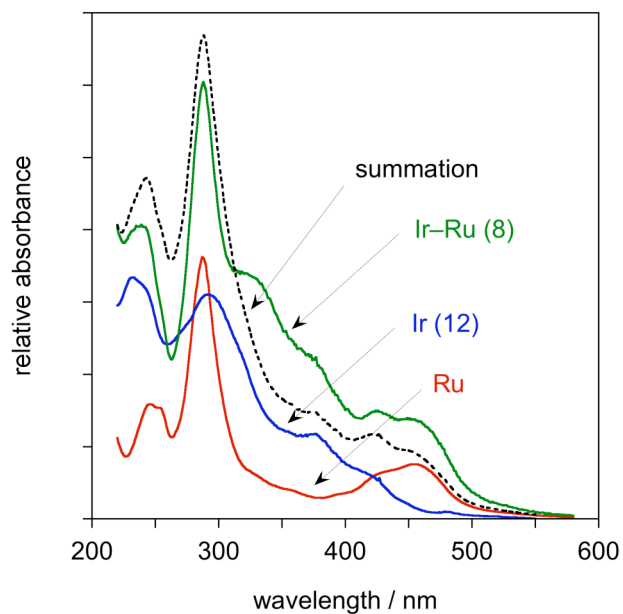


Figure S3 Absorption spectra of the dinuclear complex **8** and the monometallic complexes $[\text{Ir}(\text{dpyx})(\text{mtbpy}-\phi\text{-Ph})]^+$ (**12**) and $[\text{Ru}(\text{bpy})_2(\text{bpy}-\phi\text{-Ph})]^{2+}$ (Ru), together with their summation.

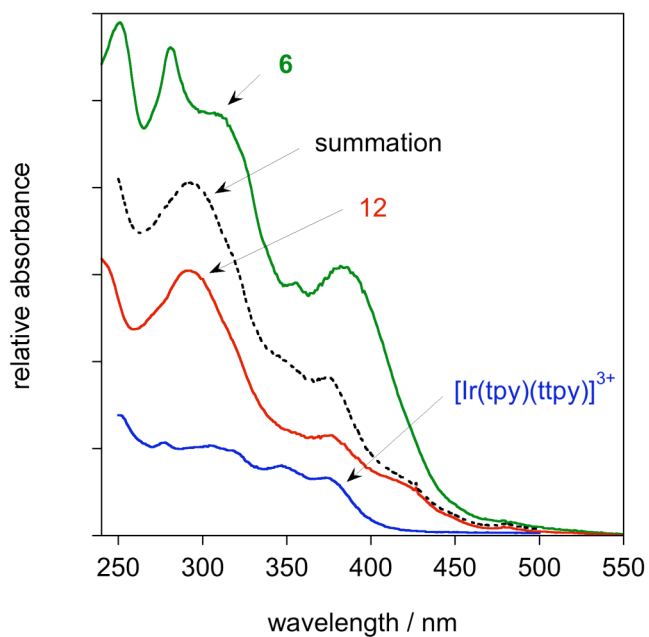


Figure S4 Absorption spectra of the dinuclear complex **6** and the monometallic complexes $[\text{Ir}(\text{dpyx})(\text{mtbpy}-\phi\text{-Ph})]^{3+}$ (**12**) and $[\text{Ir}(\text{tpy})(\text{tppy})]^{3+}$, together with their summation.

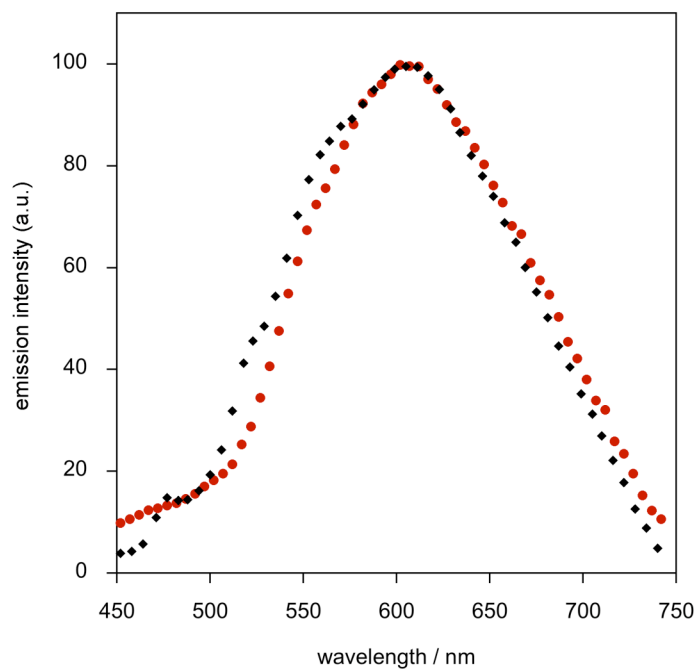


Figure S5 Time-resolved emission spectra generated at 100 ns (red points) and at 1 μ s (black points) after excitation at 374 nm; generated from decay curves registered at 5 nm intervals.