

A “talking” between gold nanoparticle and a luminescent Iridium(III) complex: a study of the effect due to the interaction between plasmon resonance and a fluorophore

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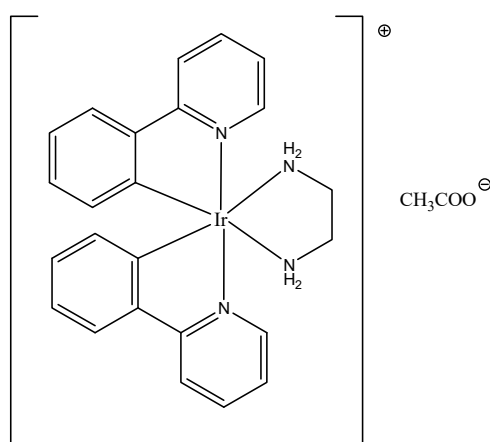


Figure S1. Molecular structure of Ir₁.

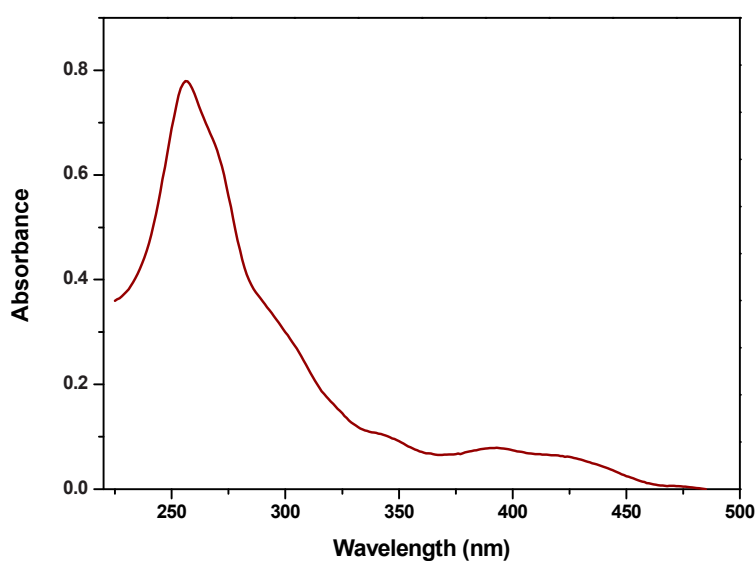


Figure S2. Absorption spectrum of Ir₁ in water at room temperature (3.20×10^{-5} mol/L).

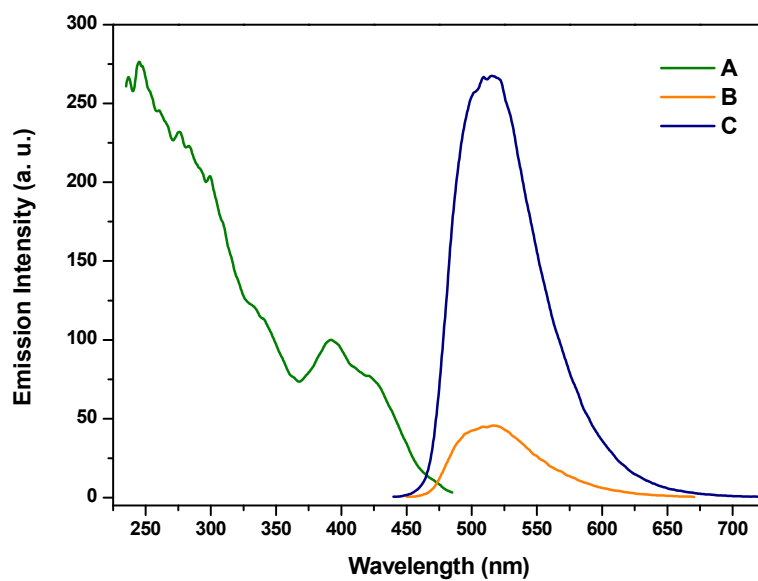


Figure S3. Excitation spectrum (A) in degassed water ($\lambda_{\text{em}} = 515$ nm) and emission spectra of **Ir₁** at room temperature in air-saturated (B) or in degassed (C) water ($\lambda_{\text{ex}} = 260$ nm).

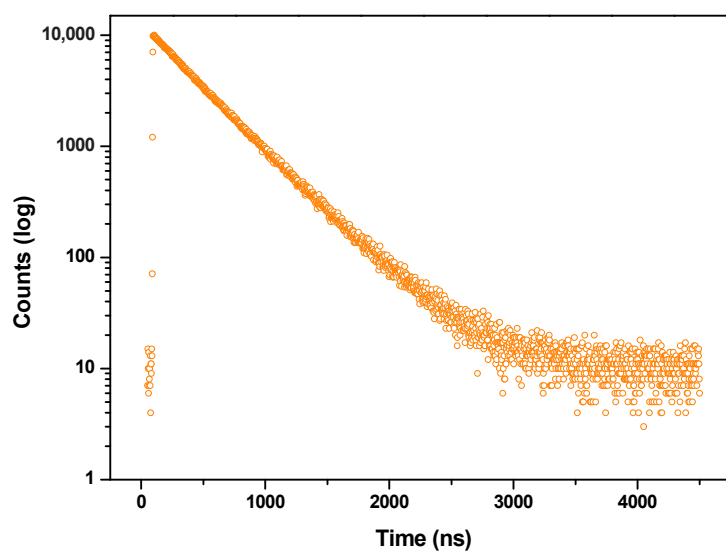


Figure S4 Time-resolved emission decay of **Ir₁** in water ($\lambda_{\text{ex}} = 379$ nm, $\lambda_{\text{monitored}} = \lambda_{\text{em}} = 510$ nm).

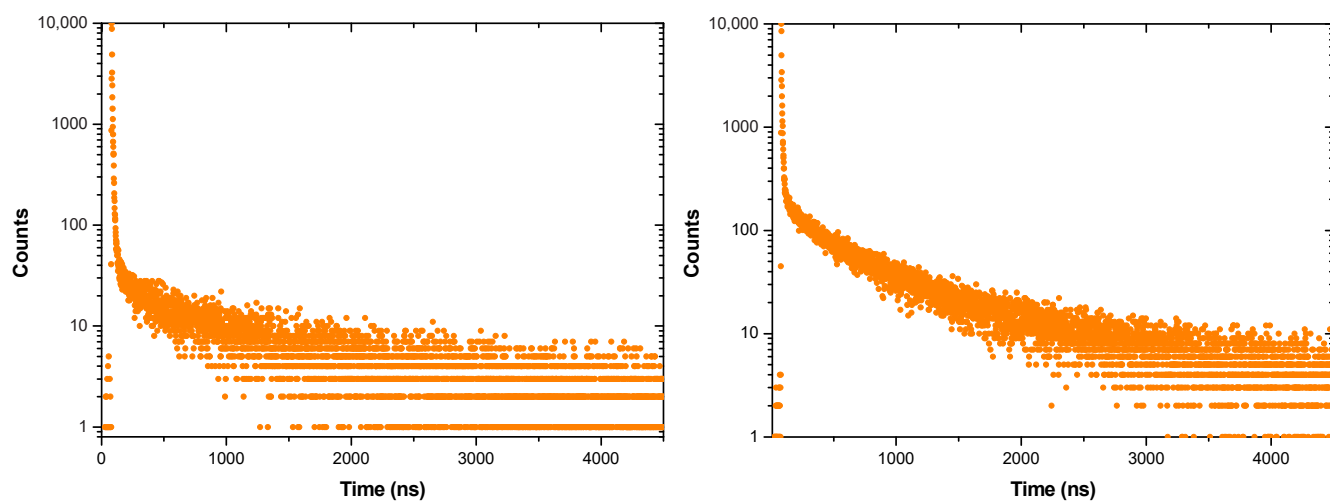


Figure S5. Time-resolved emission decays of AuNR@(**Ir**₁)@SiO₂@TPSA in water (λ_{ex} = 379 nm, $\lambda_{\text{monitored}}$ = λ_{em} = 465 nm (on the left), 540 nm (on the right)).