

Supplementary Information

Rhenium(I) Polypyridine Complexes as Luminescence-Based Sensors for the BSA Protein

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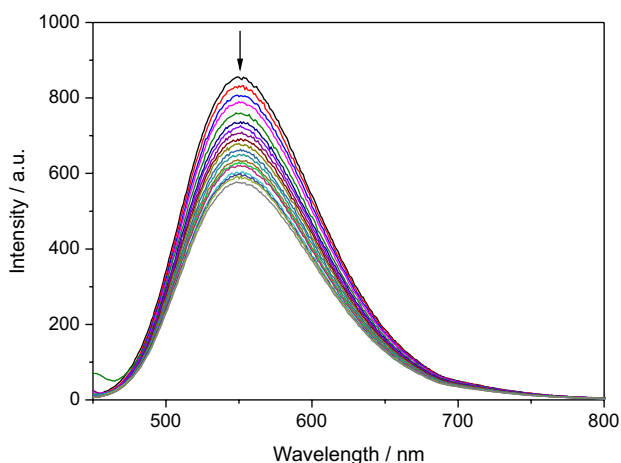


Figure S1. Changes in emission spectra of *fac*-[Re(CO)₃(phen)(py)]⁺ ($3.1 \times 10^{-5} \text{ mol L}^{-1}$) as a function of BSA addition ($0 \rightarrow 5$) $10^{-6} \text{ mol L}^{-1}$. $\lambda_{\text{exc}} = 350 \text{ nm}$ at room temperature.

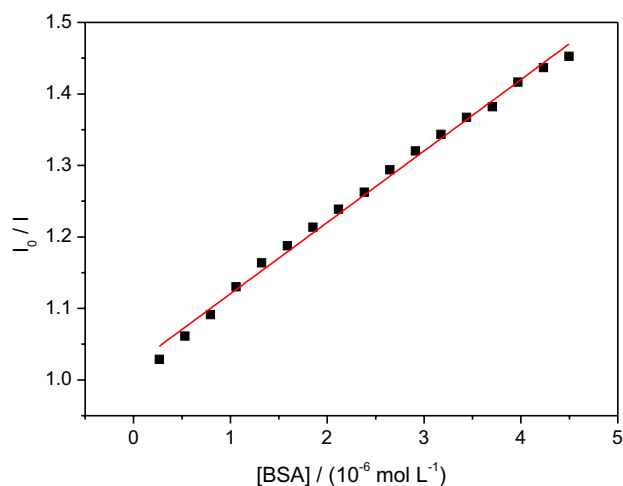


Figure S3. Stern-Volmer plot for the interaction of *fac*-[Re(CO)₃(phen)(py)]⁺ with BSA.

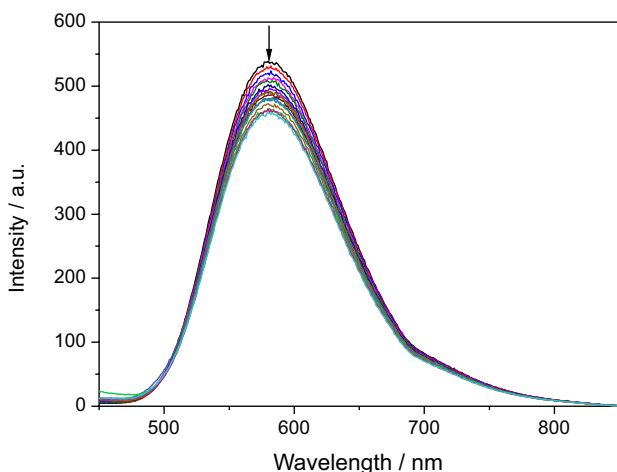


Figure S2. Changes in emission spectra of *fac*-[Re(CO)₃(Cl₂phen)(py)]⁺ ($3.4 \times 10^{-5} \text{ mol L}^{-1}$) as a function of BSA addition ($0 \rightarrow 5$) $10^{-6} \text{ mol L}^{-1}$. $\lambda_{\text{exc}} = 350 \text{ nm}$ at room temperature.

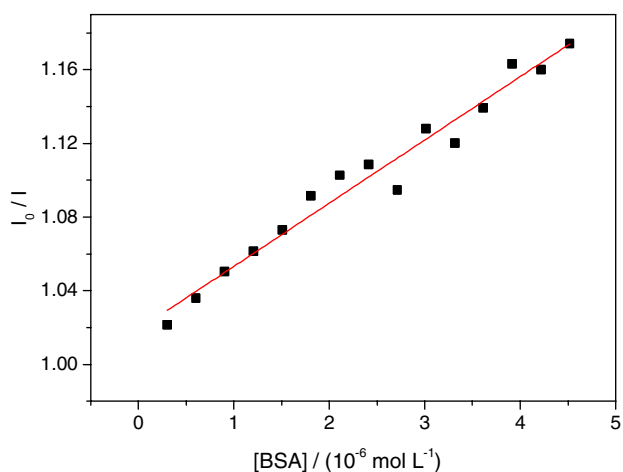


Figure S4. Stern-Volmer plot for the interaction of *fac*-[Re(CO)₃(Cl₂phen)(py)]⁺ with BSA.

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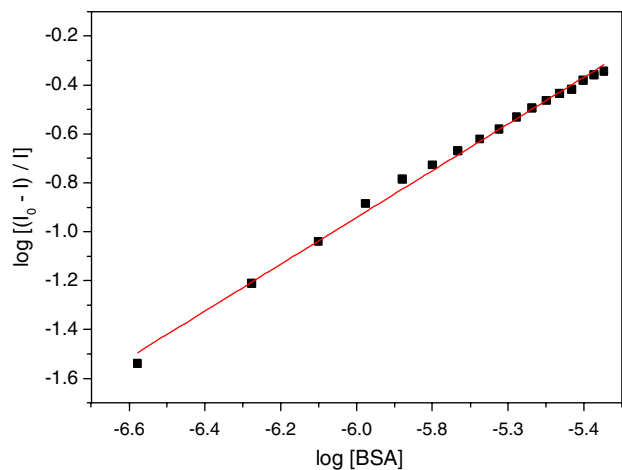


Figure S5. Plot of $\log [(F_0 - F)/F]$ versus $\log [\text{BSA}]$ of $\text{fac-}[\text{Re}(\text{CO})_3(\text{phen})(\text{py})]^+$.

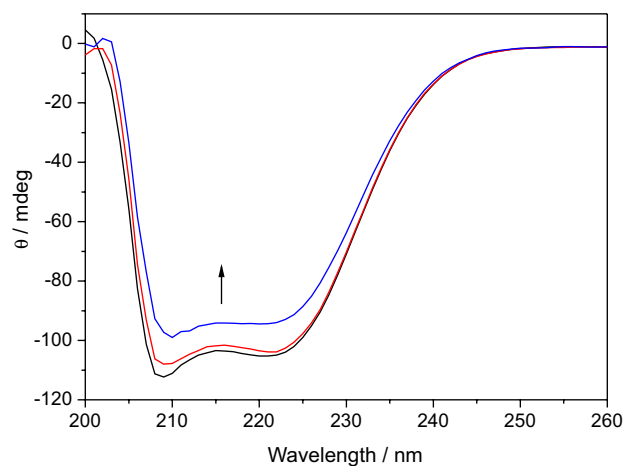


Figure S7. Circular dichroism spectra of BSA in the presence and the absence of $\text{fac-}[\text{Re}(\text{CO})_3(\text{phen})(\text{py})]^+$. $[\text{BSA}] = 1 \times 10^{-6} \text{ mol L}^{-1}$ and $[\text{complex}] = 1 \times 10^{-6} \text{ mol L}^{-1}$ and $1 \times 10^{-5} \text{ mol L}^{-1}$.

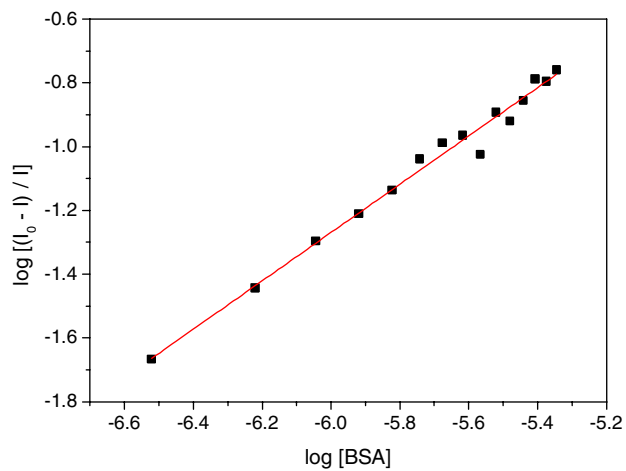


Figure S6. Plot of $\log [(F_0 - F)/F]$ versus $\log [\text{BSA}]$ of $\text{fac-}[\text{Re}(\text{CO})_3(\text{Cl}_2\text{phen})(\text{py})]^+$.

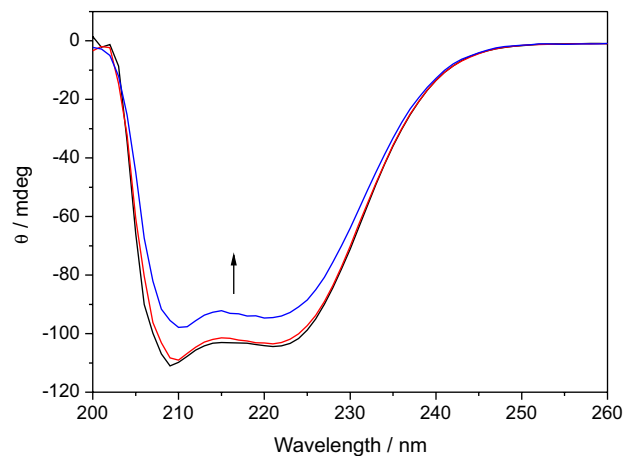


Figure S8. Circular dichroism spectra of BSA in the presence and the absence of $\text{fac-}[\text{Re}(\text{CO})_3(\text{Cl}_2\text{phen})(\text{py})]^+$. $[\text{BSA}] = 1 \times 10^{-6} \text{ mol L}^{-1}$ and $[\text{complex}] = 1 \times 10^{-6} \text{ mol L}^{-1}$ and $1 \times 10^{-5} \text{ mol L}^{-1}$.