

Heterometallic Gold(I)-Thallium(I) Compounds with Crown Thioethers

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ELECTRONIC SUPPLEMENTARY INFORMATION

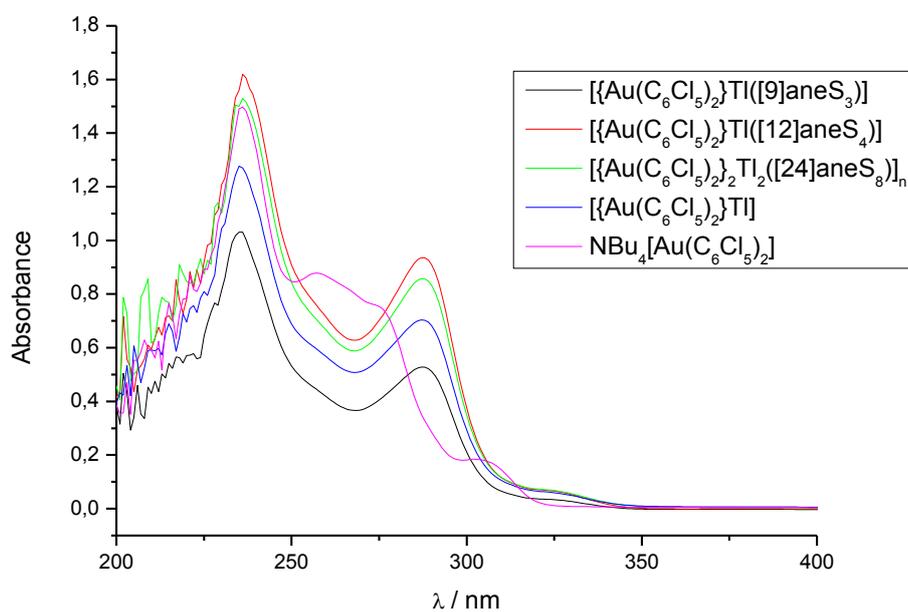


Figure ES11. UV-Vis absorption spectrum of complexes **1-3** and precursors $\{[Au(C_6Cl_5)_2]TI\}_n$ and $NBu_4[Au(C_6Cl_5)_2]$ in tetrahydrofuran.

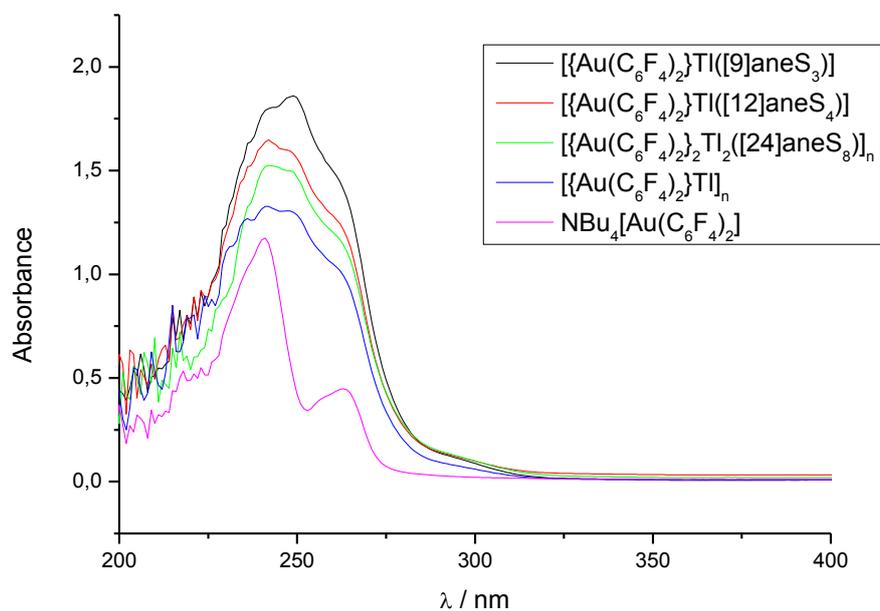


Figure ES12. UV-Vis absorption spectrum of complexes **4-6** and precursors $\{[Au(C_6F_5)_2]TI\}_n$ and $NBu_4[Au(C_6F_5)_2]$ in tetrahydrofuran.

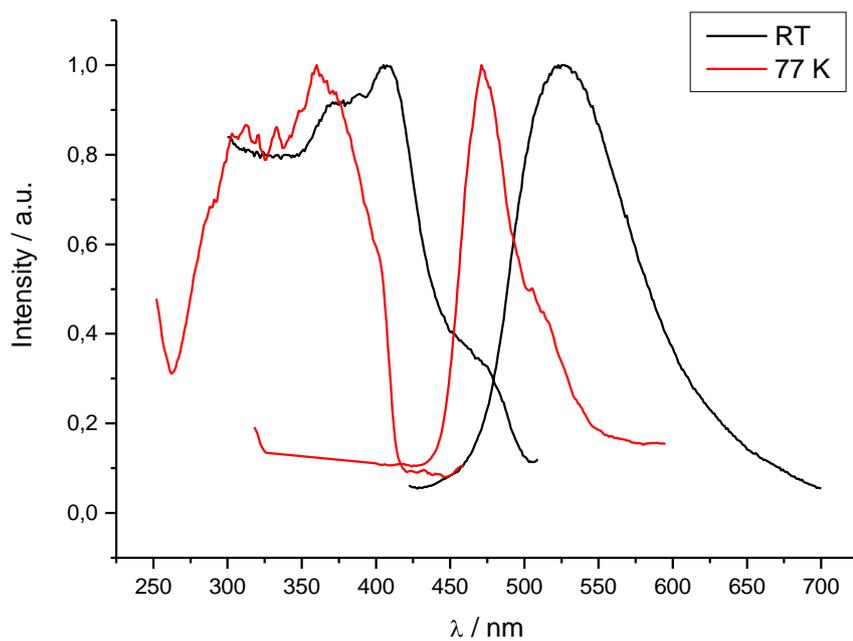


Figure ESI3. Excitation and emission spectra for complex **1** in solid state.

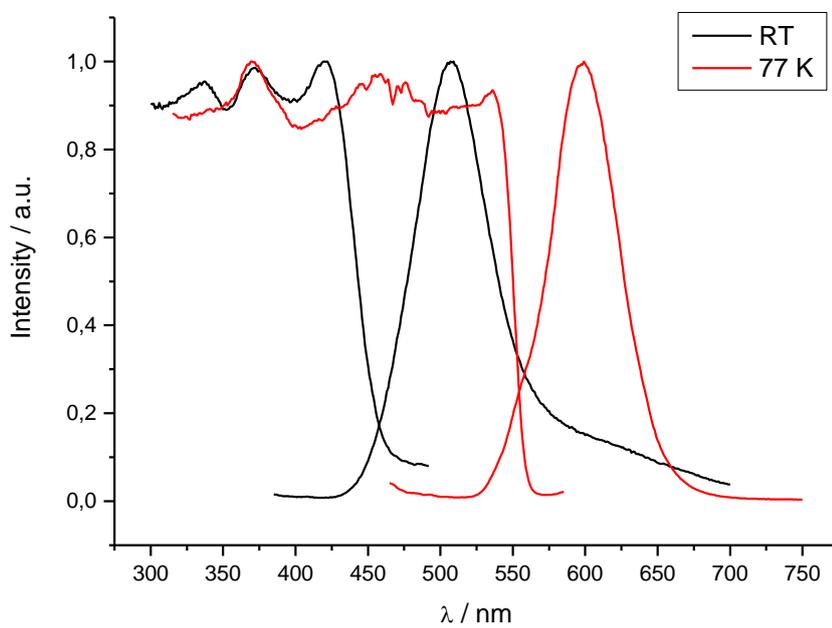


Figure ESI4. Excitation and emission spectra for complex **2** in solid state.

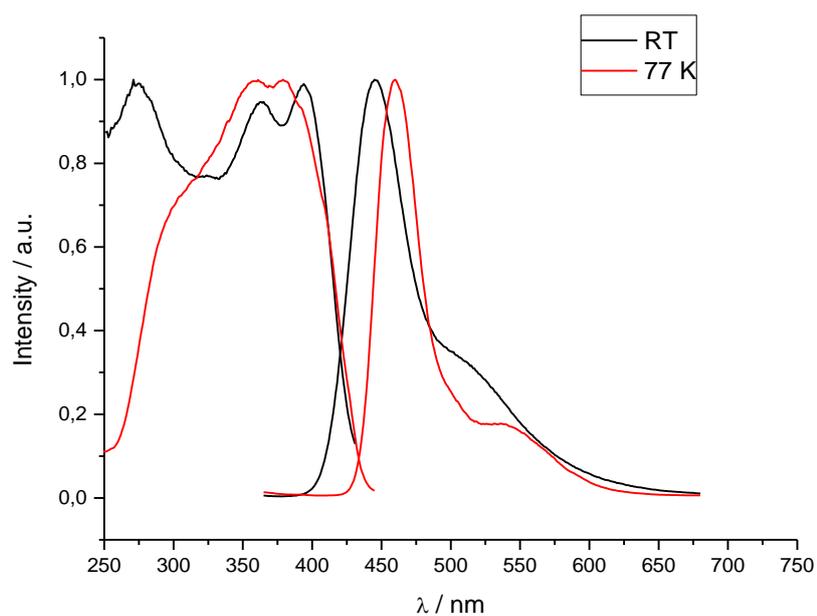


Figure ES15. Excitation and emission spectra for complex **5** in solid state.

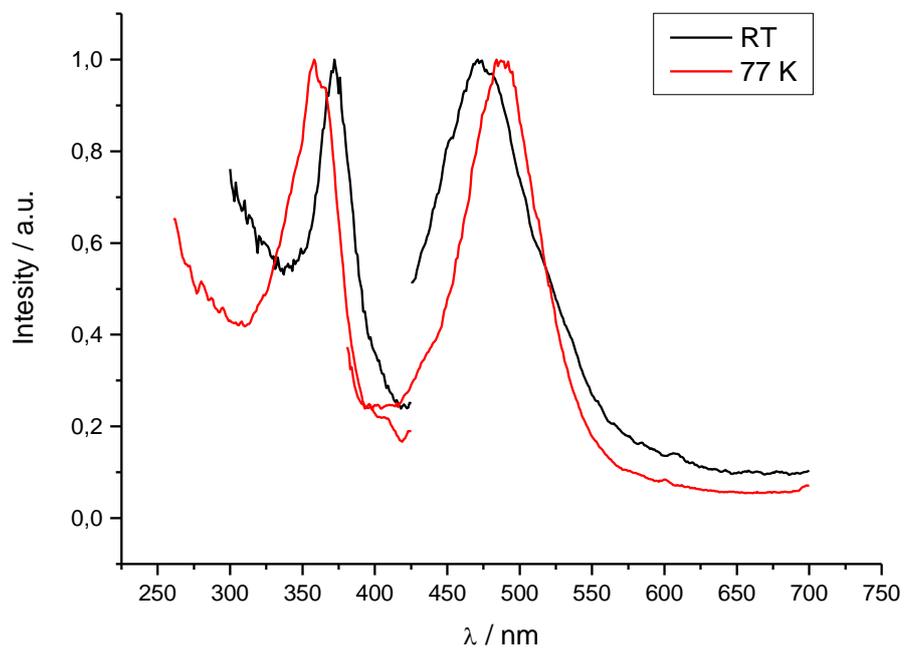


Figure ES16. Excitation and emission spectra for complex **6** in solid state.

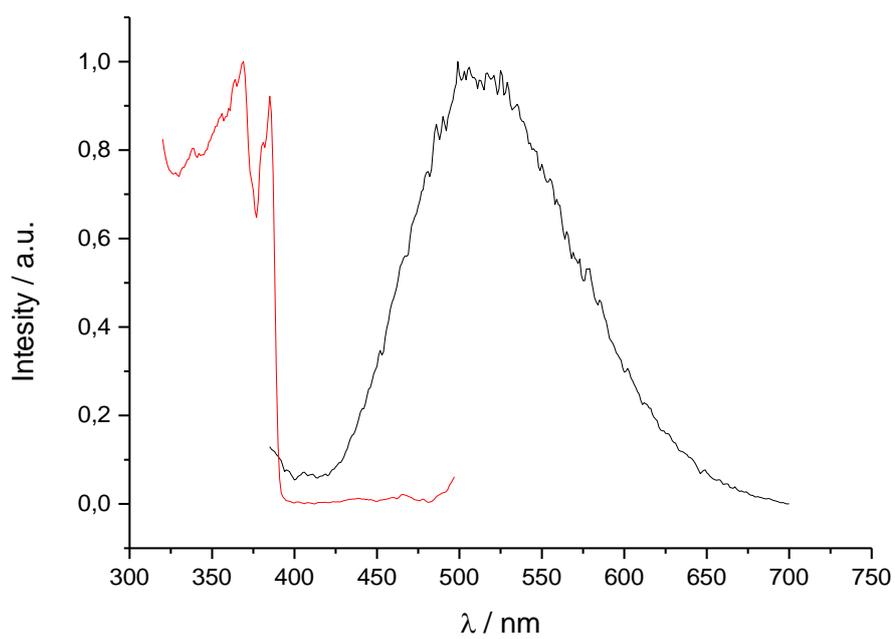


Figure ES17. Excitation and emission spectra for NBu₄[Au(C₆Cl₅)₂] in solid state at 77 K.

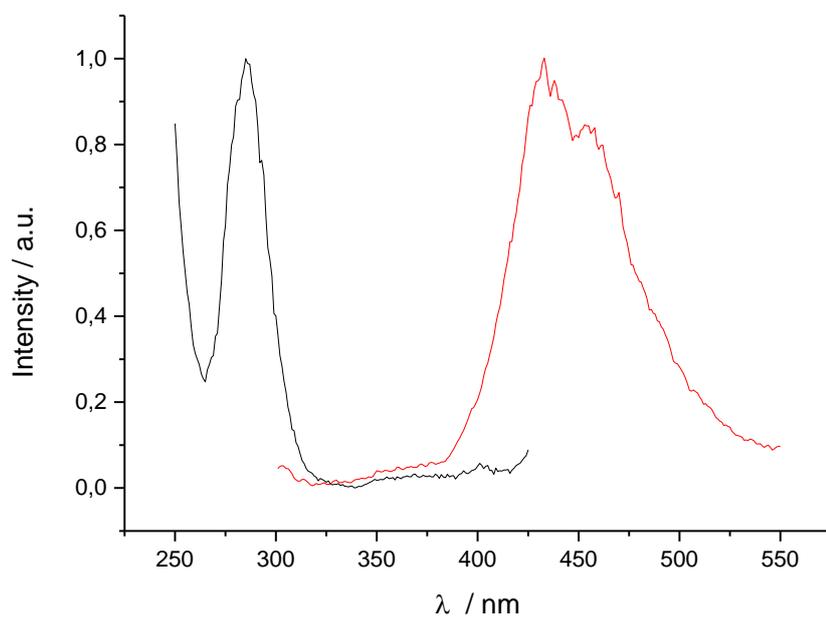


Figure ES18. Excitation and emission spectra for NBu₄[Au(C₆F₅)₂] in solid state at 77 K.

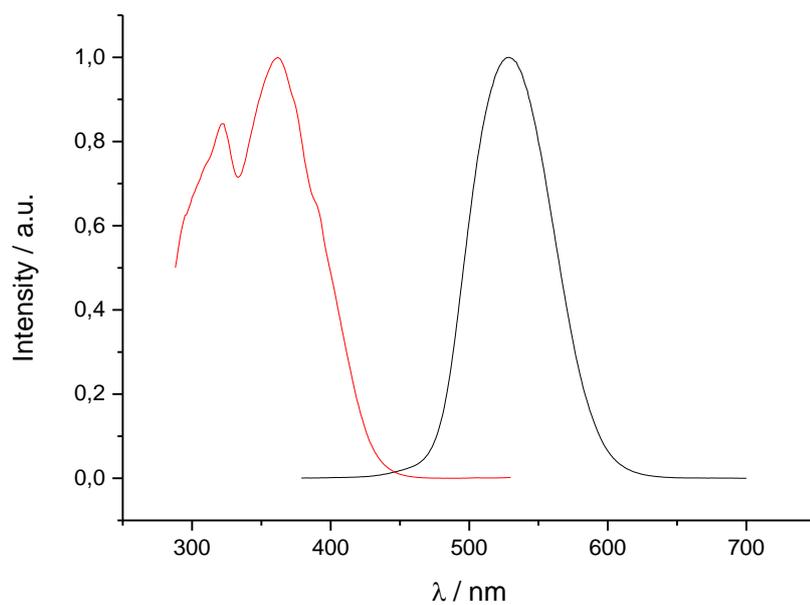


Figure ESI9. Excitation and emission spectra for complex **1** in glassy butyronitrile solution (2×10^{-4} M) at 77 K.

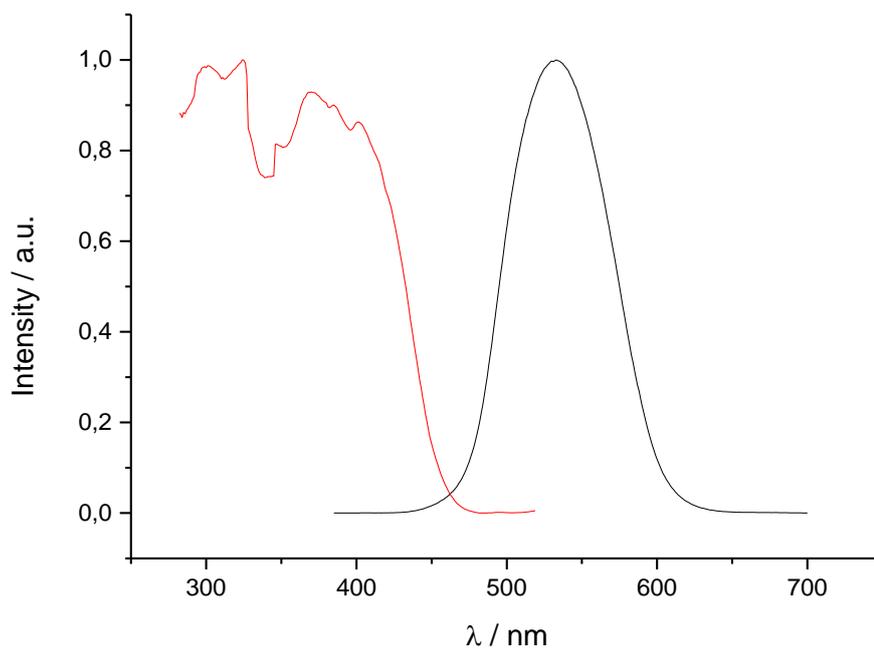


Figure ESI10. Excitation and emission spectra for complex **2** in glassy butyronitrile solution (2×10^{-4} M) at 77 K.

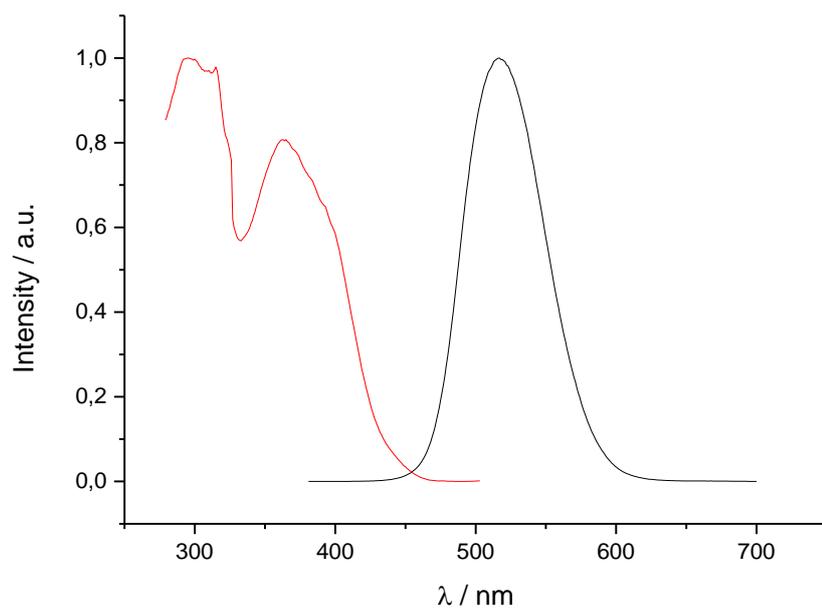


Figure ESI11. Excitation and emission spectra for complex **3** in glassy butyronitrile solution (2×10^{-4} M) at 77 K.

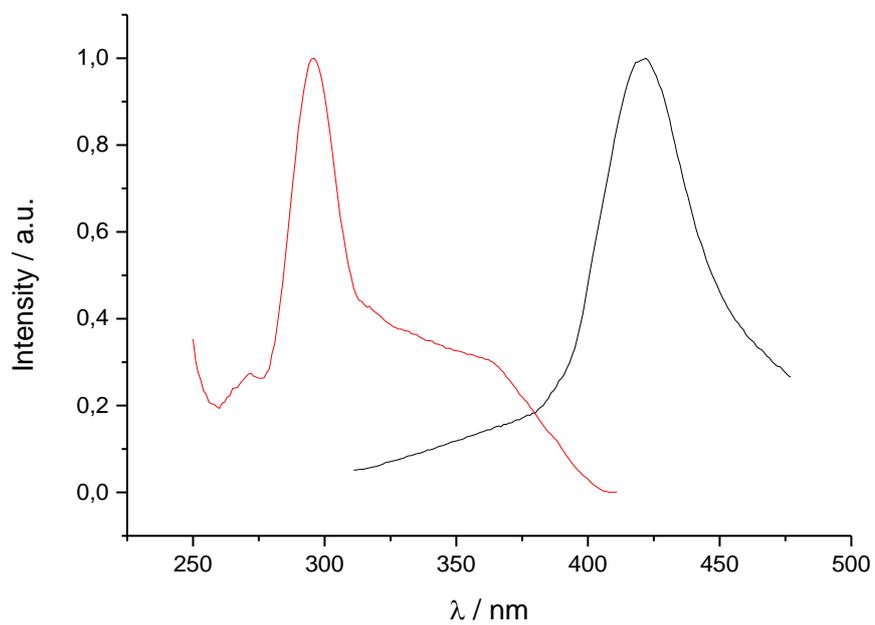


Figure ESI12. Excitation and emission spectra for complex **4** in glassy butyronitrile solution (2×10^{-4} M) at 77 K.

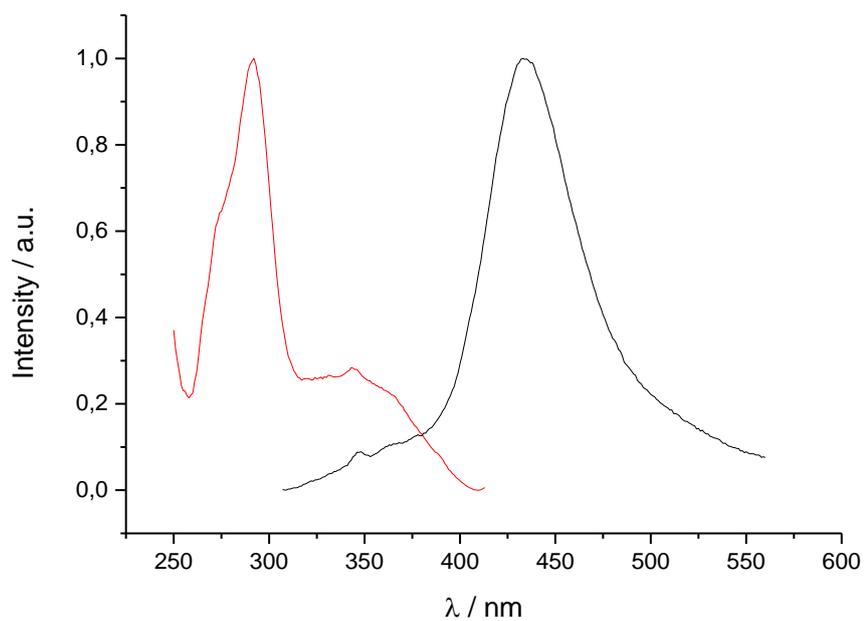


Figure ESI13. Excitation and emission spectra for complex **5** in glassy butyronitrile solution (2×10^{-4} M) at 77 K.

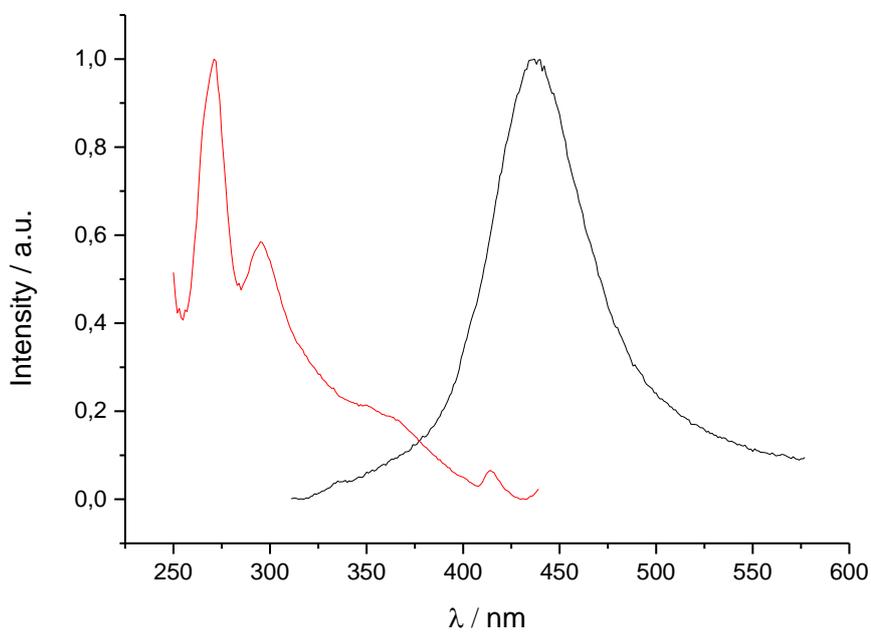


Figure ESI14. Excitation and emission spectra for complex **6** in glassy butyronitrile solution (2×10^{-4} M) at 77 K.

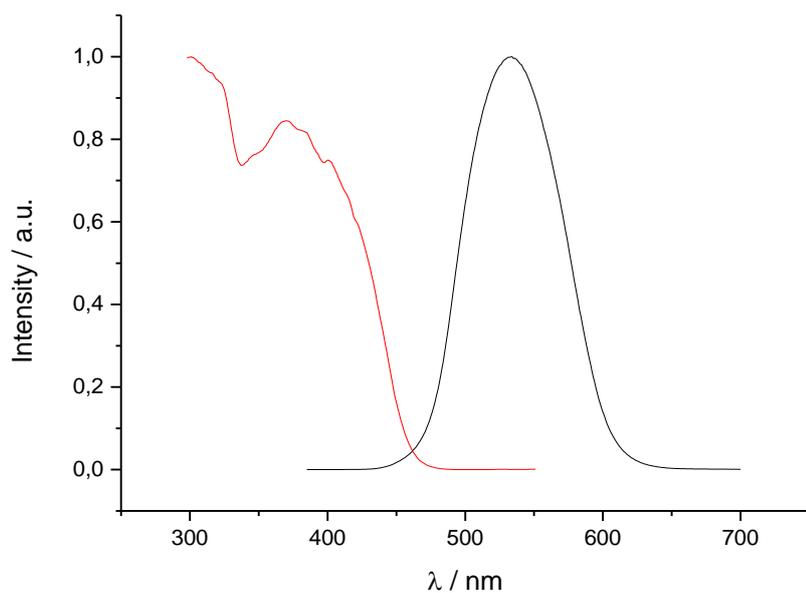


Figure ESI15. Excitation and emission spectra for $[\{\text{Au}(\text{C}_6\text{Cl}_5)_2\}\text{TI}]_n$ in glassy butyronitrile solution ($2 \times 10^{-4} \text{ M}$) at 77 K.

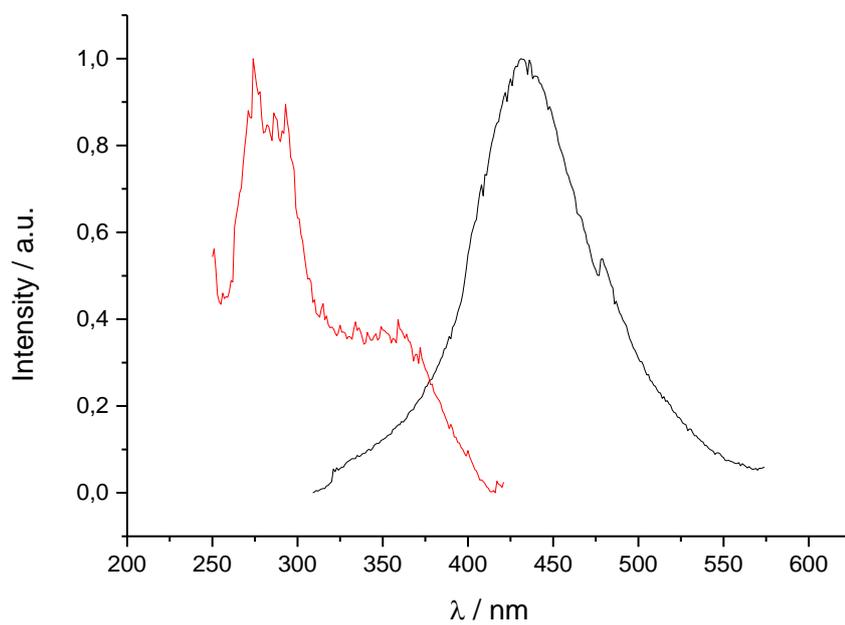


Figure ESI16. Excitation and emission spectra for $[\{\text{Au}(\text{C}_6\text{F}_5)_2\}\text{TI}]_n$ in glassy butyronitrile solution ($2 \times 10^{-4} \text{ M}$) at 77 K.