

Electronic Supplementary Information (ESI)

Photophysical and Sensing Properties to Anions for Platinum(II) Terpyridyl Complexes with Phenolic Ethynyl Ligands

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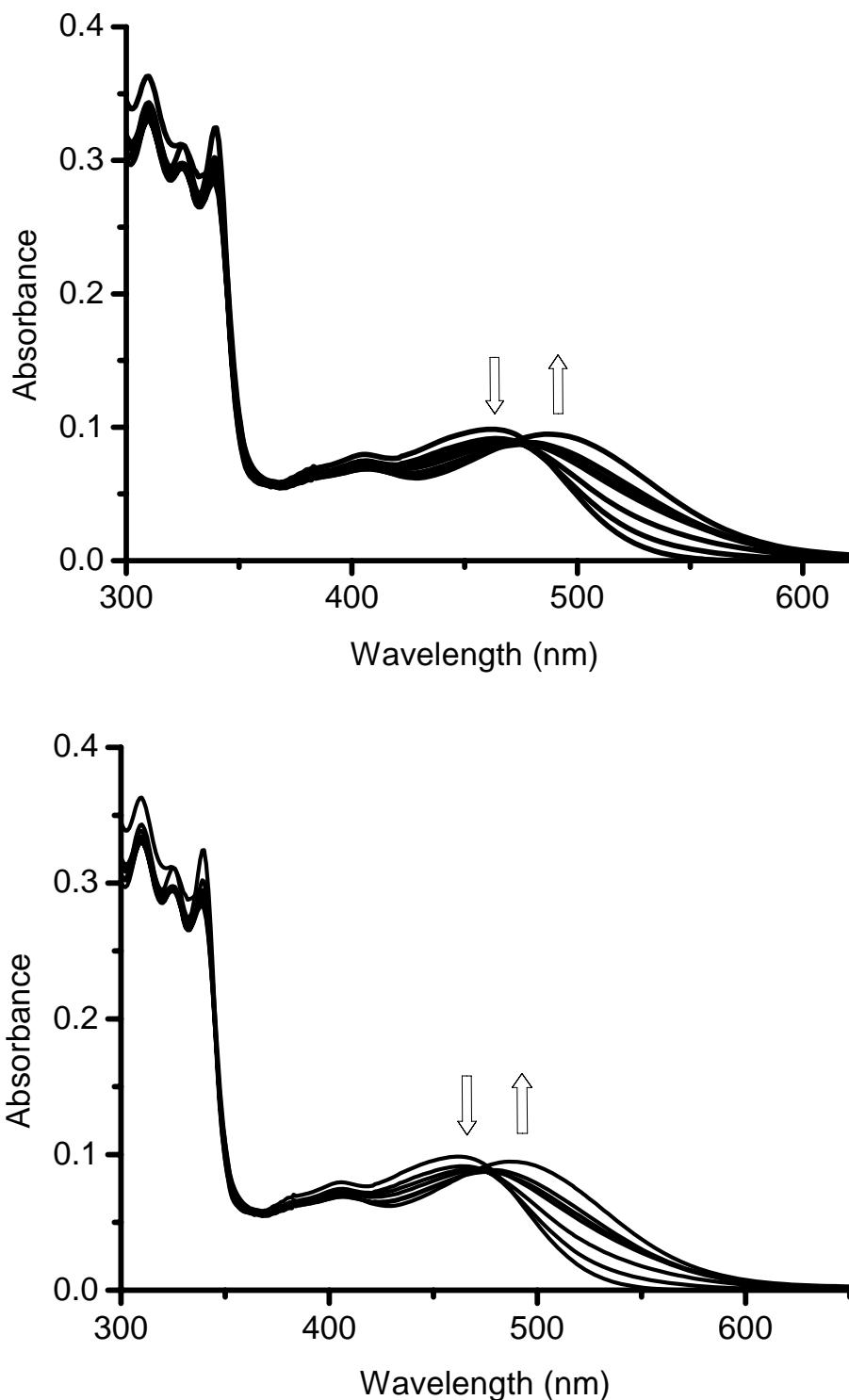


Fig. S1 UV-vis titration of **1** in acetonitrile solution (2.0×10^{-5} M) by addition $[Bu_4N]AcO$ and $[Bu_4N]H_2PO_4$. Top: addition of $[Bu_4N]AcO$ from 0 to 80×10^{-5} M. Bottom: Addition of $[Bu_4N]H_2PO_4$ from 0 to 80×10^{-5} M.

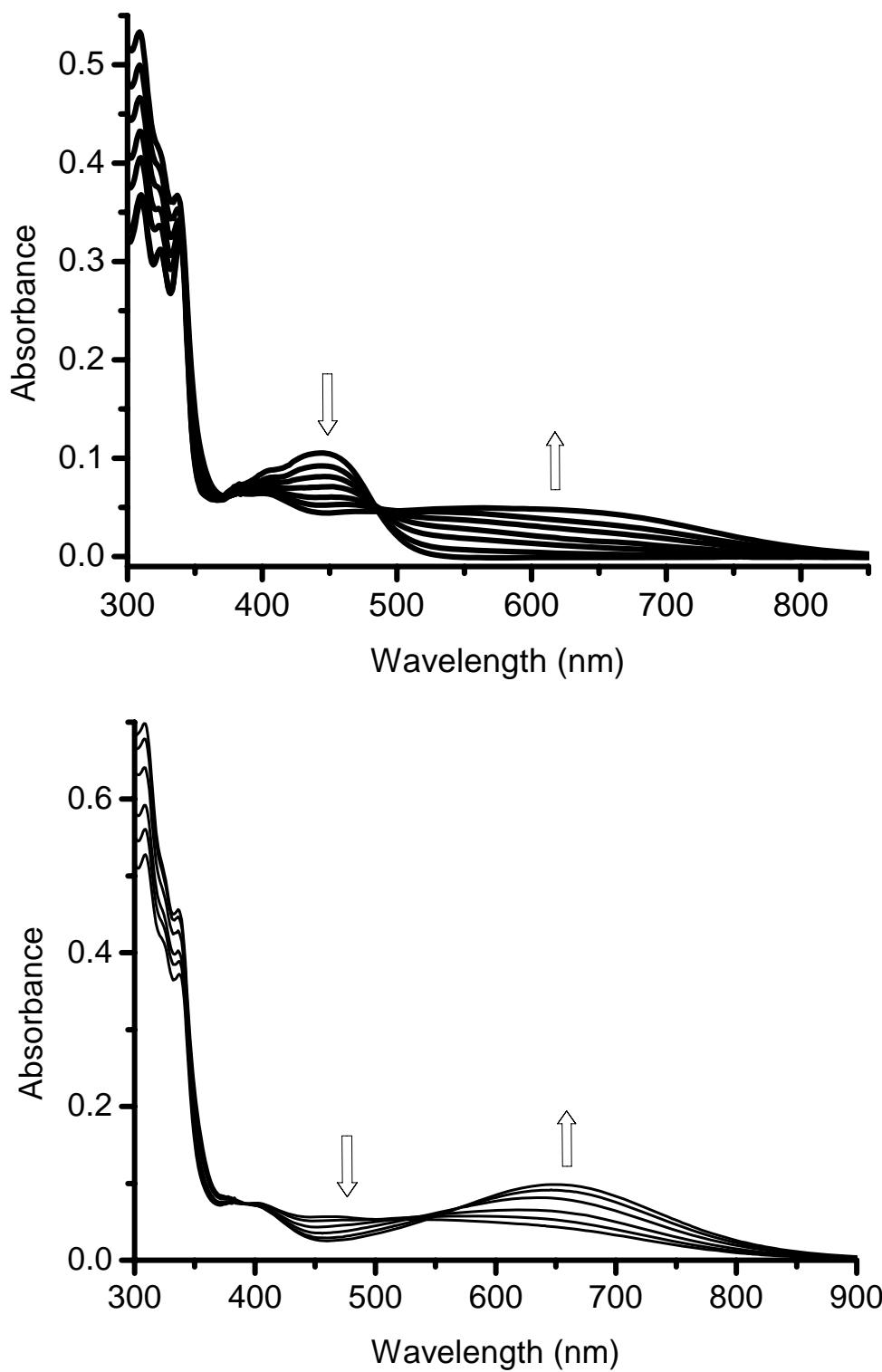


Fig. S2 UV-vis titration of **2** in acetonitrile solution (2×10^{-5} M) by addition of $[\text{Bu}_4\text{N}]F$. Top, addition of $[\text{Bu}_4\text{N}]F$ from 0 to 3×10^{-5} M. Bottom, addition of $[\text{Bu}_4\text{N}]F$ from 3×10^{-5} to 8×10^{-5} M.

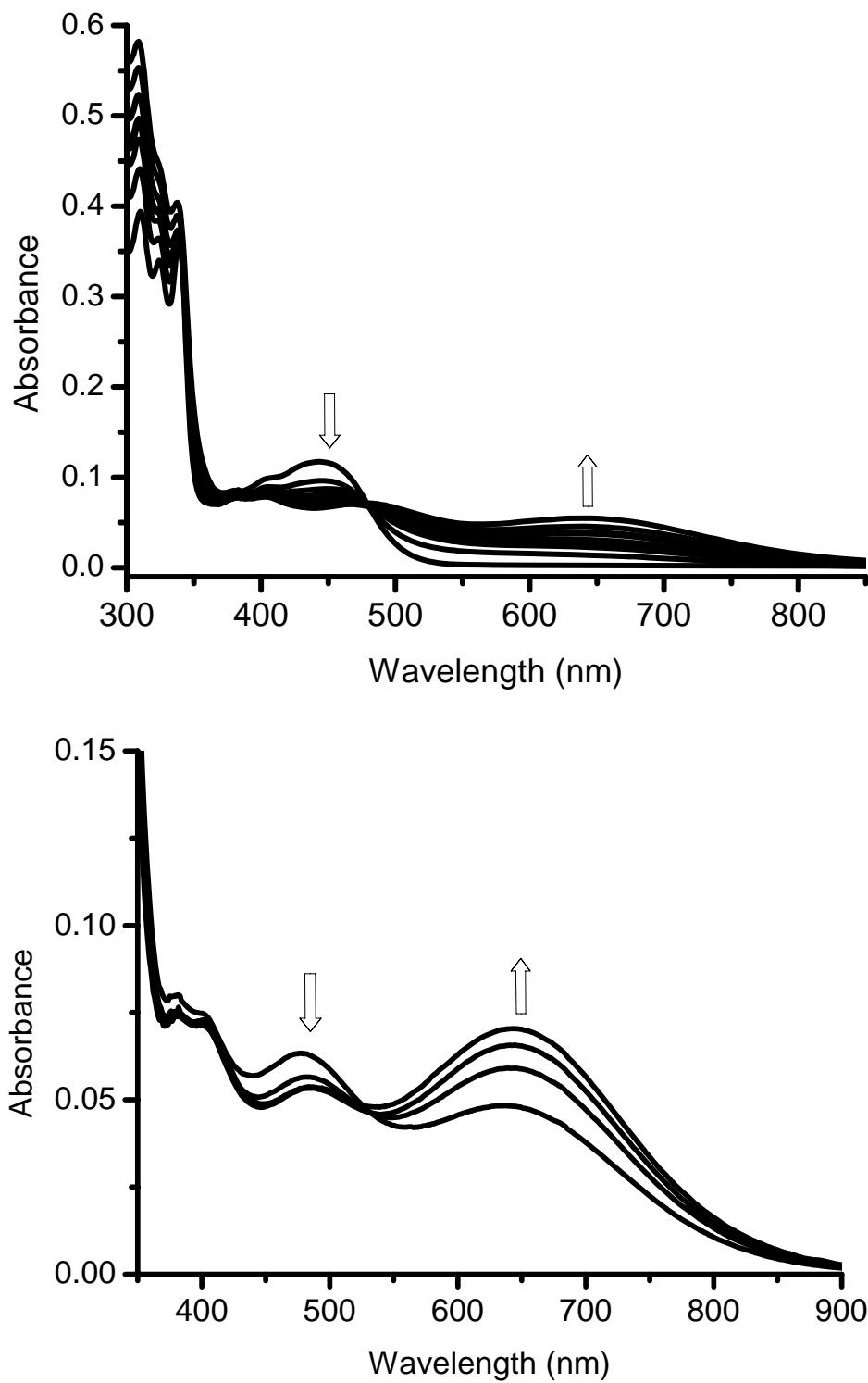


Fig. S3 UV-vis titration of **2** in acetonitrile solution (2×10^{-5} M) by addition of [Bu₄N]AcO. Top, addition of [Bu₄N]AcO from 0 to 20×10^{-5} M. Bottom, addition of [Bu₄N]AcO from 20×10^{-5} to 200×10^{-5} M.

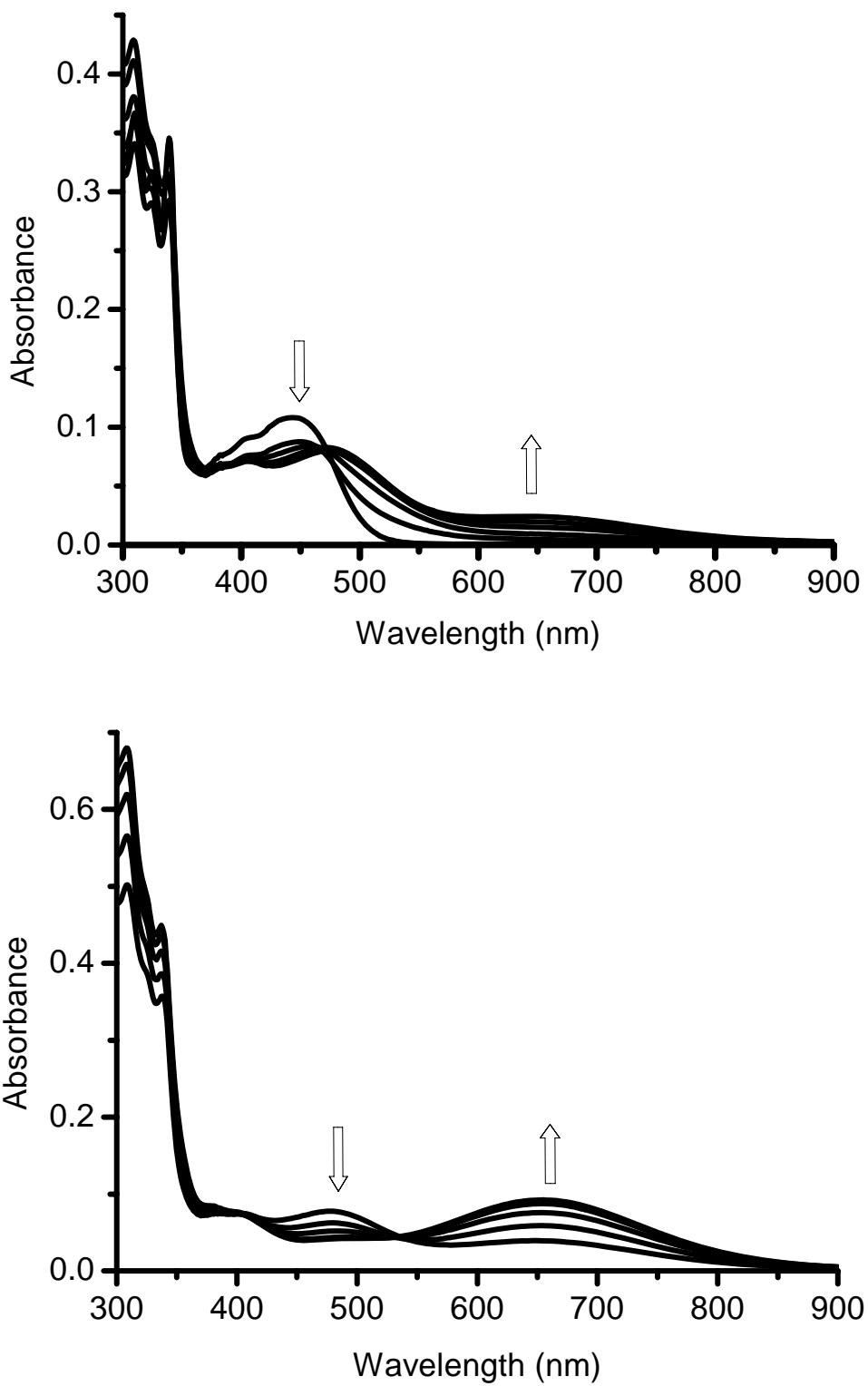


Fig. S4 UV-vis titration of **2** in an acetonitrile solution (2×10^{-5} M) by addition of $[\text{Bu}_4\text{N}]\text{H}_2\text{PO}_4$. Top, addition of $[\text{Bu}_4\text{N}]\text{H}_2\text{PO}_4$ from 0 to 40×10^{-5} M. Bottom, addition of $[\text{Bu}_4\text{N}]\text{H}_2\text{PO}_4$ from 40×10^{-5} to 200×10^{-5} M.

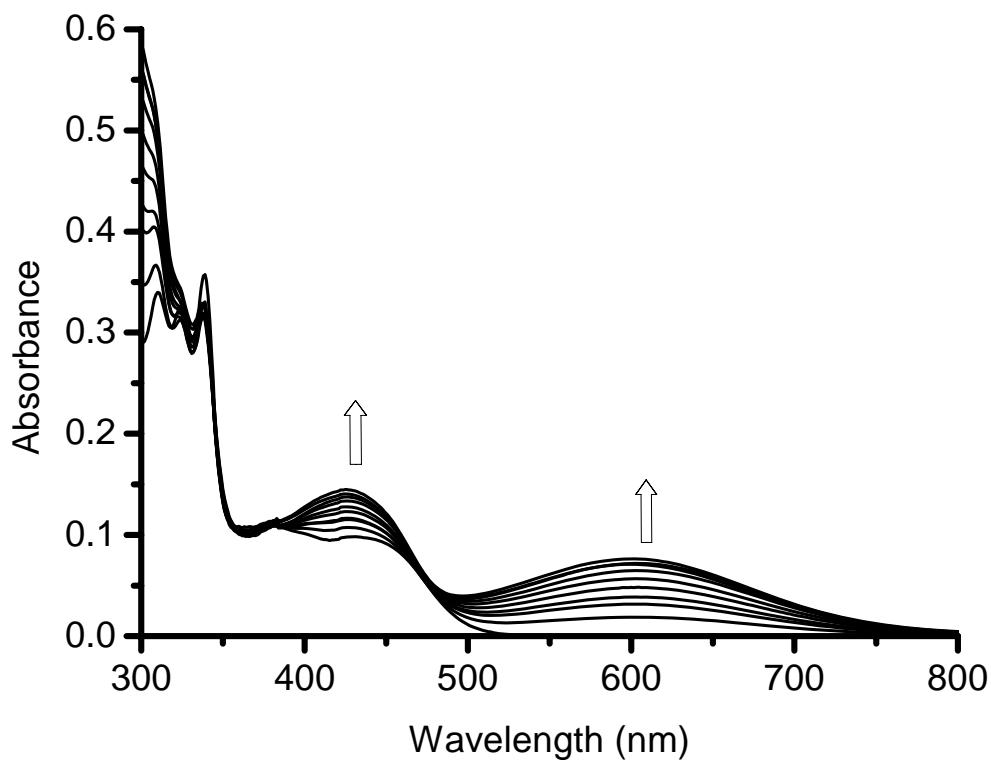


Fig. S5 UV-vis titration of **3** in acetonitrile solution (2×10^{-5} M) by addition of $[\text{Bu}_4\text{N}]\text{AcO}$ from 0 to 20×10^{-5} M.

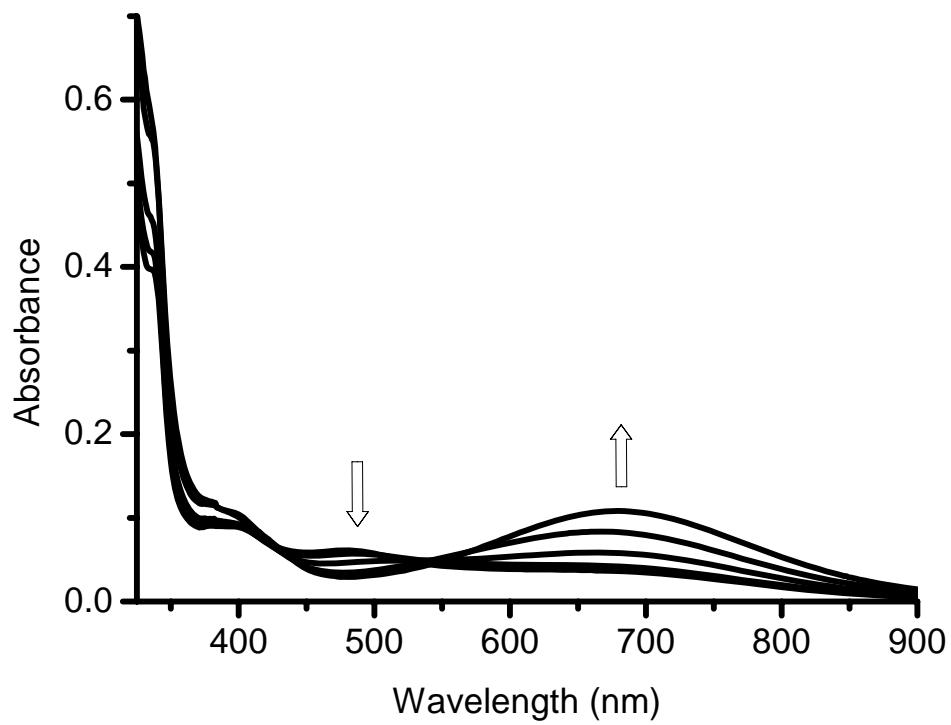
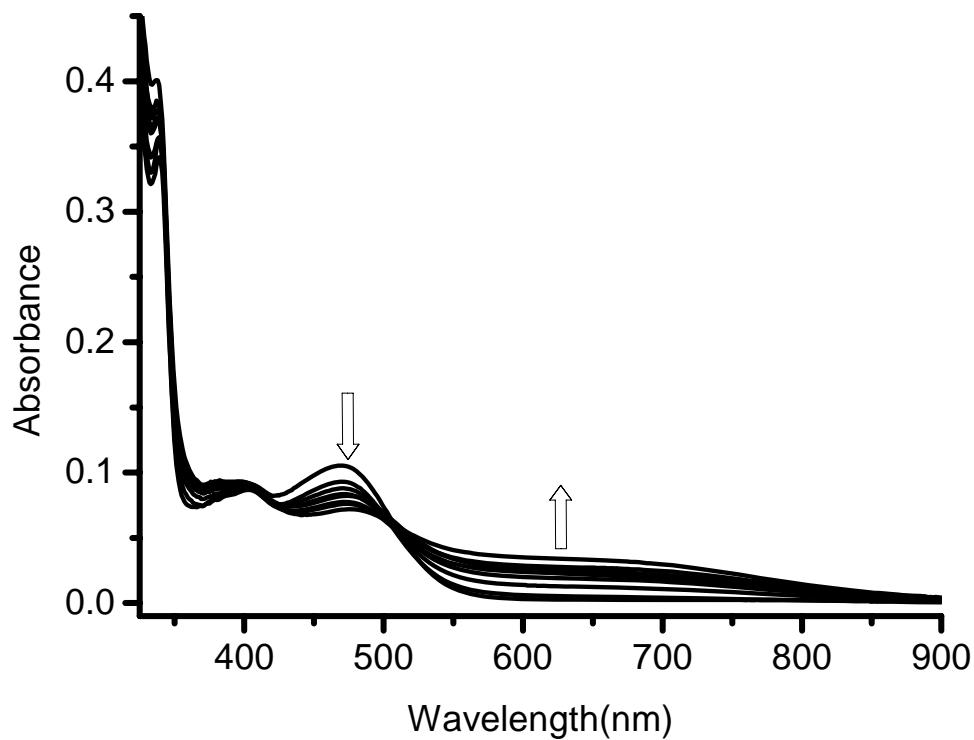


Fig. S6 UV-vis titration of **4** in acetonitrile solution (2×10^{-5} M) by addition of $[\text{Bu}_4\text{N}]F$. Top: addition of $[\text{Bu}_4\text{N}]F$ from 0 to 16×10^{-5} M. Bottom: addition of $[\text{Bu}_4\text{N}]F$ from 16×10^{-5} to 100×10^{-5} M.

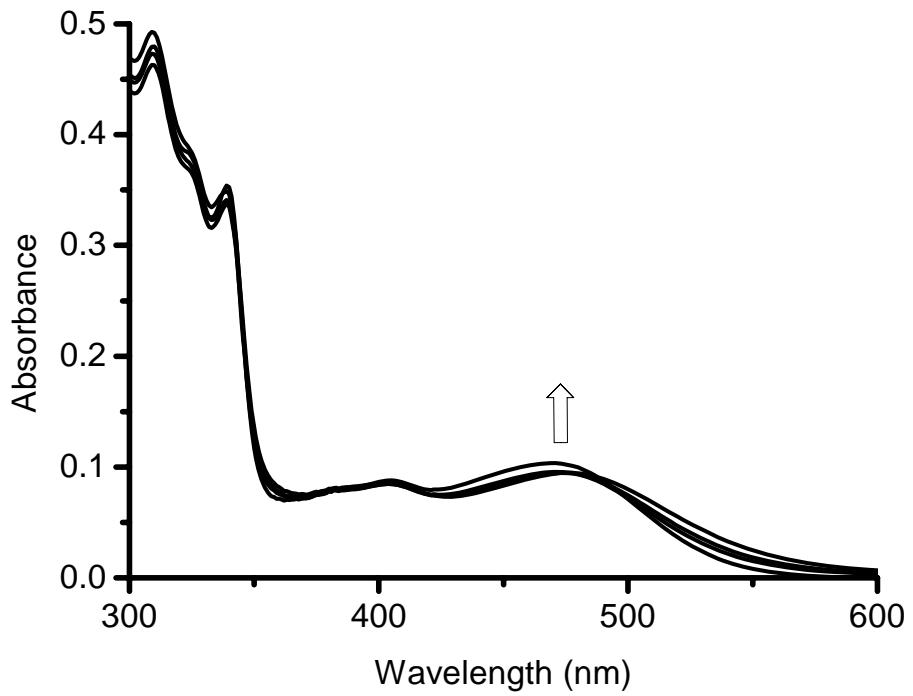


Fig. S7 UV-vis titration of **4** in acetonitrile solution (2×10^{-5} M) by addition of [Bu₄N]AcO from 0 to 100×10^{-5} M.

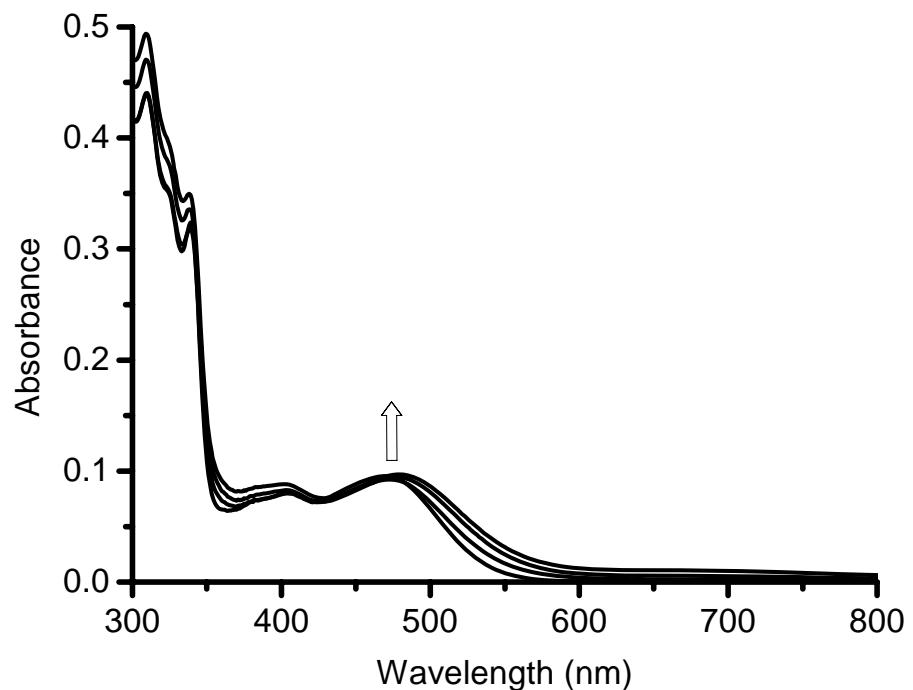


Fig. S8 UV-vis titration of **4** in acetonitrile solution (2.0×10^{-5} M) by addition of [Bu₄N]H₂PO₄ from 0 to 160×10^{-5} M.