

## Supporting Information

# Chromophoric Dipyrrin Complexes Capable of Binding to TiO<sub>2</sub>: Synthesis, Structure and Spectroscopy

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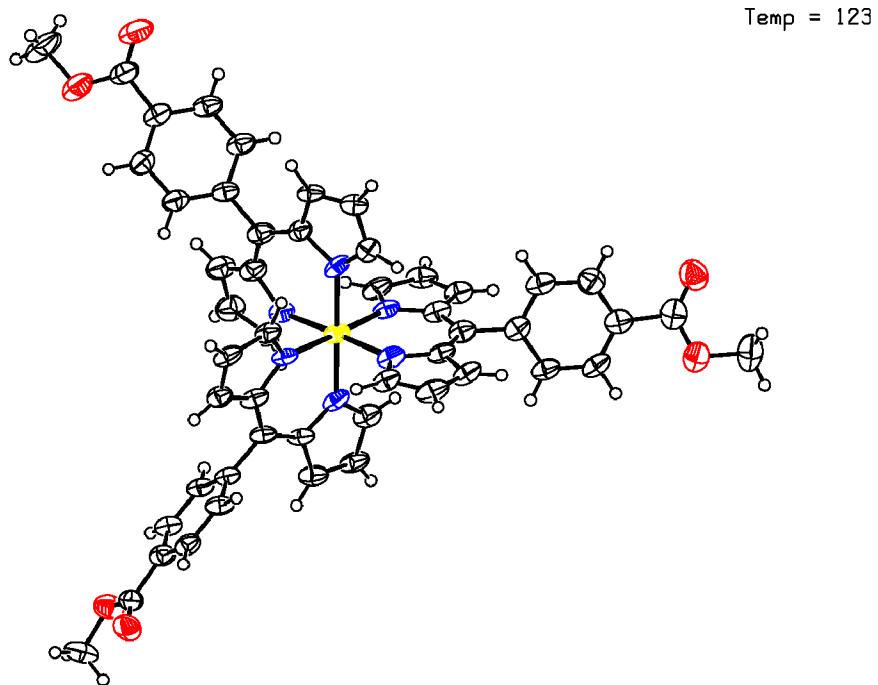
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**Figure S1.** ORTEP view of the molecular structure of [Rh(L<sup>a</sup>)<sub>3</sub>].

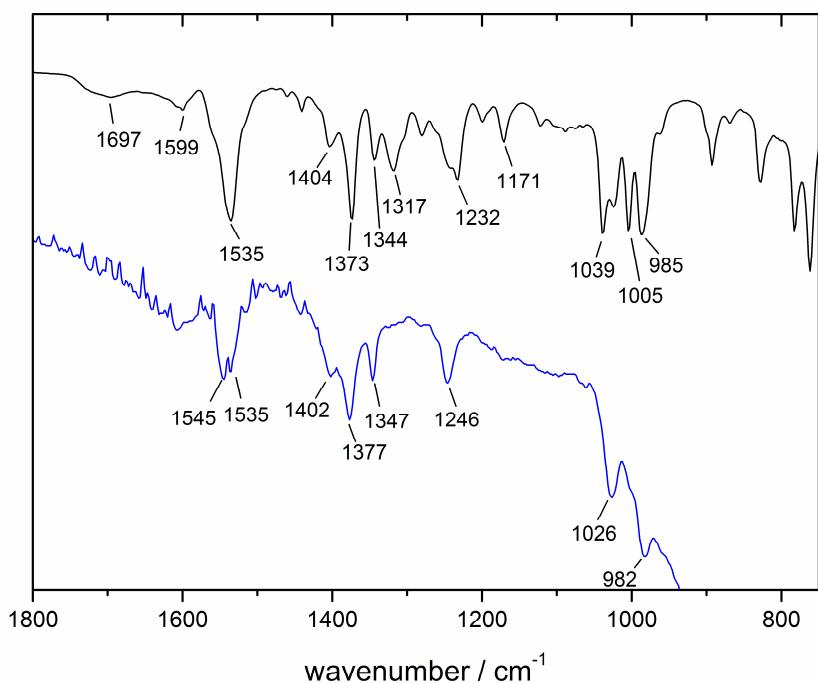
**Figure S2.** FT-IR spectra of solid [Ru(bipy)(L<sup>b</sup>)<sub>2</sub>] and [Ru(bipy)(L<sup>b</sup>)<sub>2</sub>] adsorbed on TiO<sub>2</sub>.

**Figure S3.** FT-IR spectra of solid [Rh(L<sup>b</sup>)<sub>3</sub>] and [Rh(L<sup>b</sup>)<sub>3</sub>] adsorbed on TiO<sub>2</sub>.

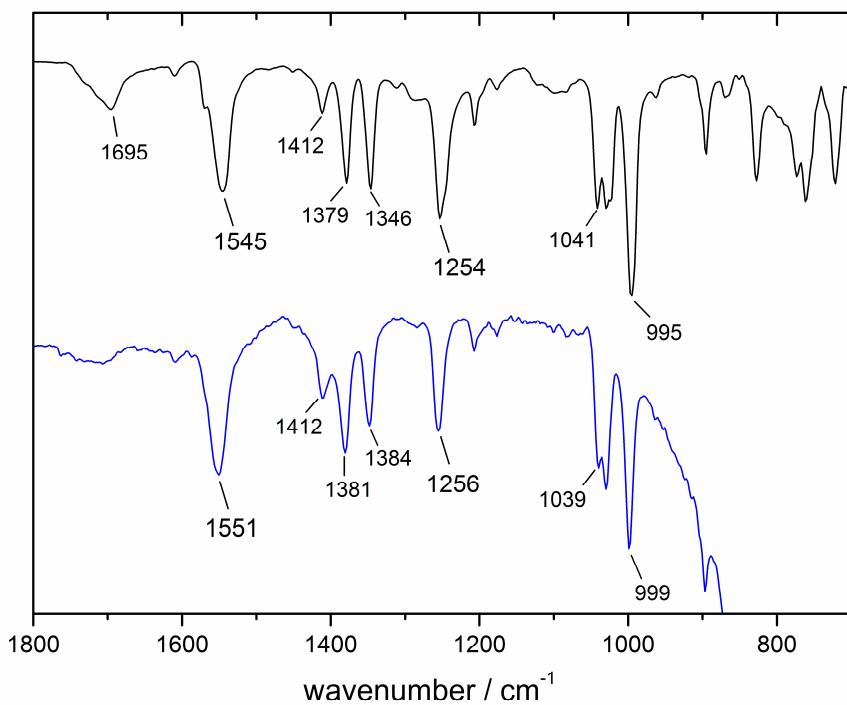
**Figure S4.** FT-IR spectra of solid tris(5-(4-cyanophenyl)-4,6-dipyrrinato)cobalt(III).



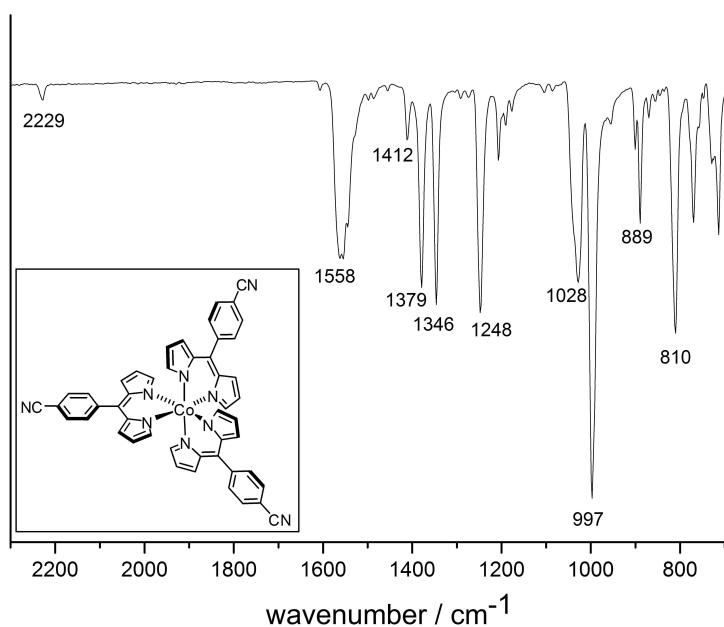
**Figure S1.** ORTEP view of the molecular structure of  $[\text{Rh}(\text{L}^{\text{a}})_3]$  as determined by X-ray crystallography of crystals grown from  $\text{CH}_2\text{Cl}_2/\text{pentane}$ . Thermal ellipsoids are shown at the 50% level. Rh = yellow; N = blue; C = black; H = open black spheres.



**Figure S2.** FT-IR spectra of solid  $[\text{Ru}(\text{bipy})(\text{L}^{\text{b}})_2]$  (black) and  $[\text{Ru}(\text{bipy})(\text{L}^{\text{b}})_2]$  adsorbed on  $\text{TiO}_2$  (blue).



**Figure S3.** FT-IR spectra of solid  $[\text{Rh}(\text{L}^{\text{b}})_3]$  (black) and  $[\text{Rh}(\text{L}^{\text{b}})_3]$  adsorbed on  $\text{TiO}_2$  (blue).



**Figure S4.** FT-IR spectra of solid tris(5-(4-cyanophenyl)-4,6-dipyrrinato)cobalt(III). This complex was prepared according to a literature procedure.<sup>1</sup>

**References**

1. Telfer, S. G.; Wuest, J. D., *Chem. Commun.* **2007**, 3166-3168.