

Supplementary Material for Dyes and Pigments

Manuscript number: DYPI-D-09-00801

Synthesis and properties of unsymmetrical porphyrazines annulated with a tetrathiafulvalene bearing two tetraethylene glycol units

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Supporting Information

- 1. UV-vis spectra**
- 2. CV and DPV**
- 3. Formation of CT complexes between 8 and 9 with TCNQ or F₄TCNQ**

1. UV-vis spectra

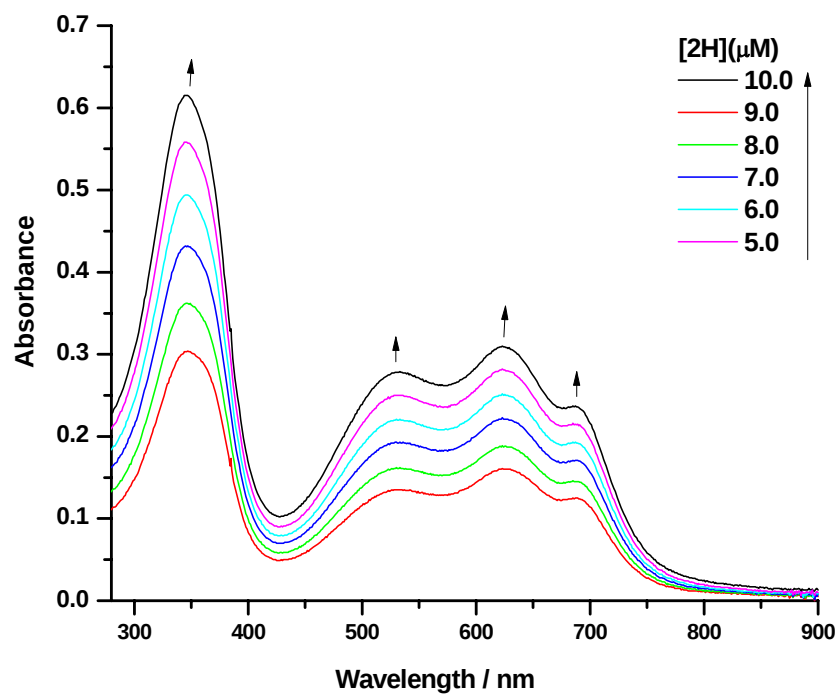


Fig. S1. Electronic absorption spectra of **8** at different concentrations in CH_2Cl_2 ($1 \times 10^{-5} \text{ M}$).

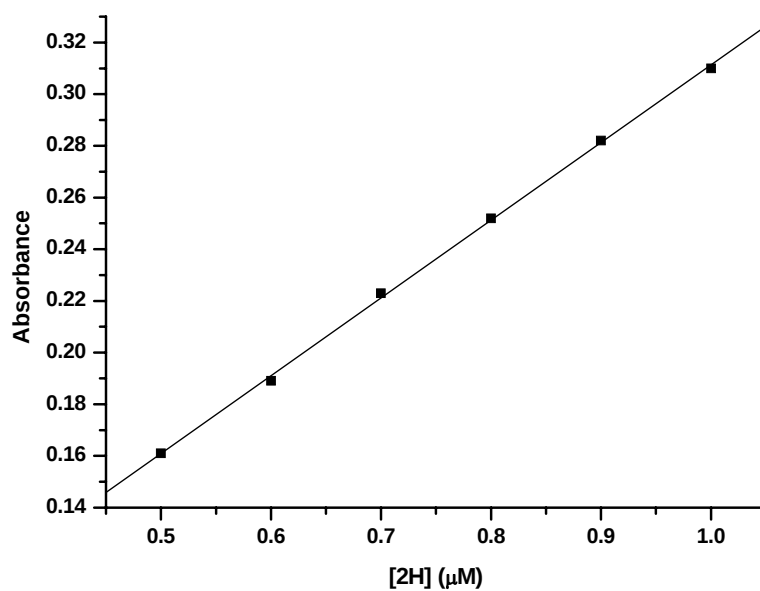


Fig. S2 plots the Q-band absorbance at 659 nm *versus* the concentration of **8**

2. CV and DPV

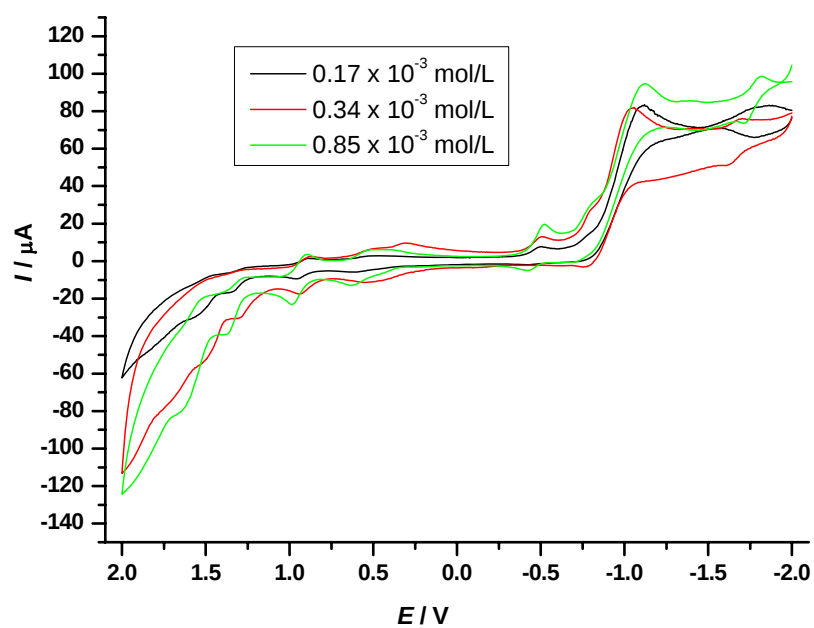


Fig. S3 CV of **8** recorded at different concentrations in $\text{CH}_2\text{Cl}_2\text{-CH}_3\text{CN}$ (4:1, V/V) at 100 mV s^{-1} scan rate

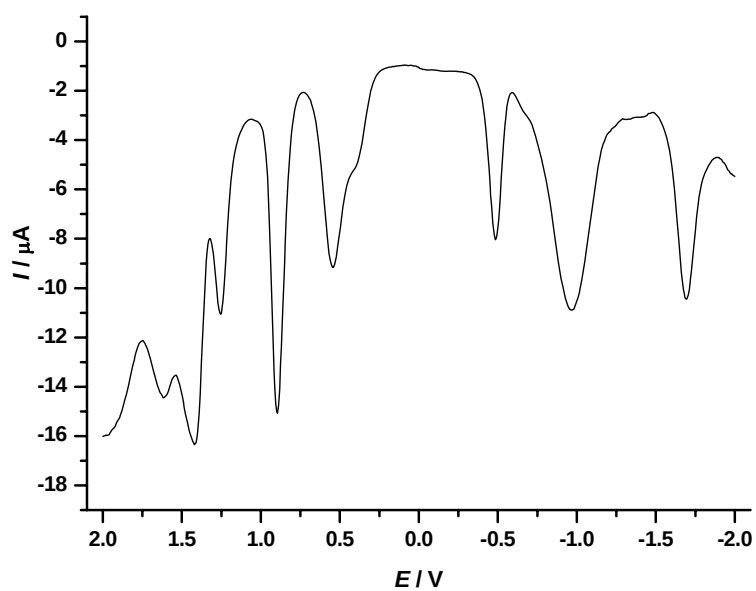


Fig. S4 DPV of **8** recorded in $\text{CH}_2\text{Cl}_2\text{-CH}_3\text{CN}$ (4:1, V/V) at 100 mV s^{-1} scan rate ($0.34 \times 10^{-3} \text{ M}$)

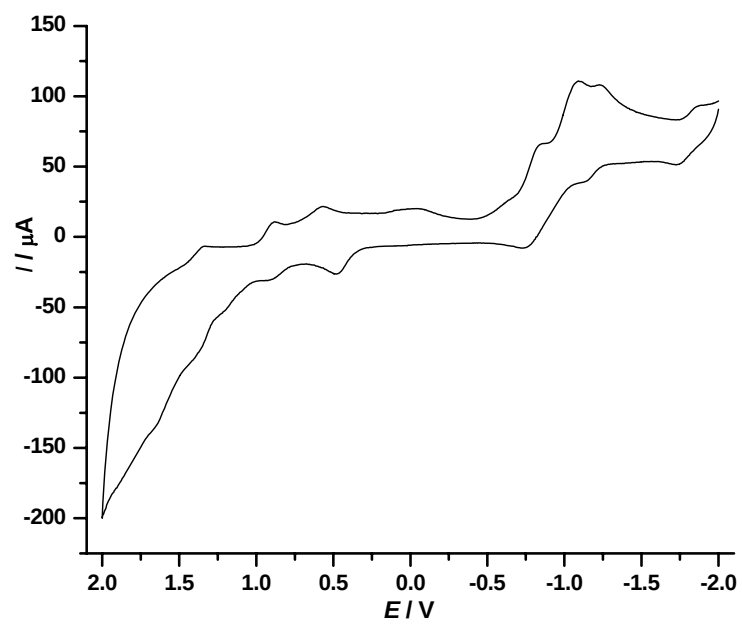


Fig. S5 CV of **9** recorded in $\text{CH}_2\text{Cl}_2\text{-CH}_3\text{CN}$ (4:1, V/V) at 100 mV s^{-1} scan rate ($0.82 \times 10^{-3} \text{ M}$)

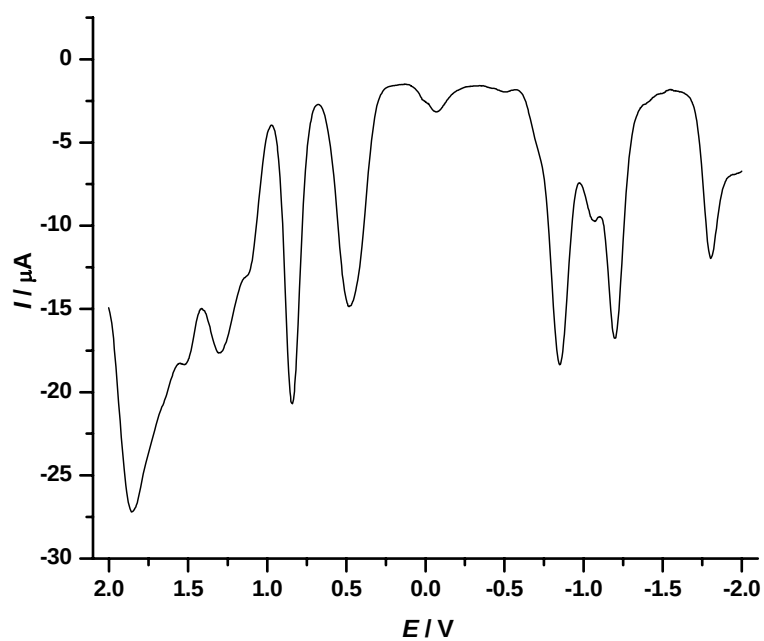


Fig. S6 DPV of **9** recorded in $\text{CH}_2\text{Cl}_2\text{-CH}_3\text{CN}$ (4:1, V/V) at 100 mV s^{-1} scan rate ($0.82 \times 10^{-3} \text{ mol/L}$)

3. Formation of CT complexes between **8** and **9** with TCNQ or F₄TCNQ

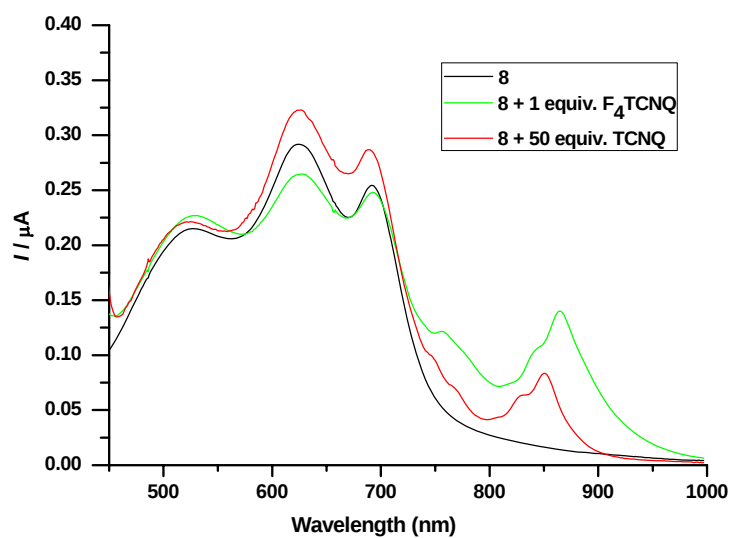


Fig. S7. Absorption spectra of **8** in CH₂Cl₂ (1 × 10⁻⁵ M) in the absence and presence and of 1 equiv. F₄TCNQ and 50 equiv. TCNQ.

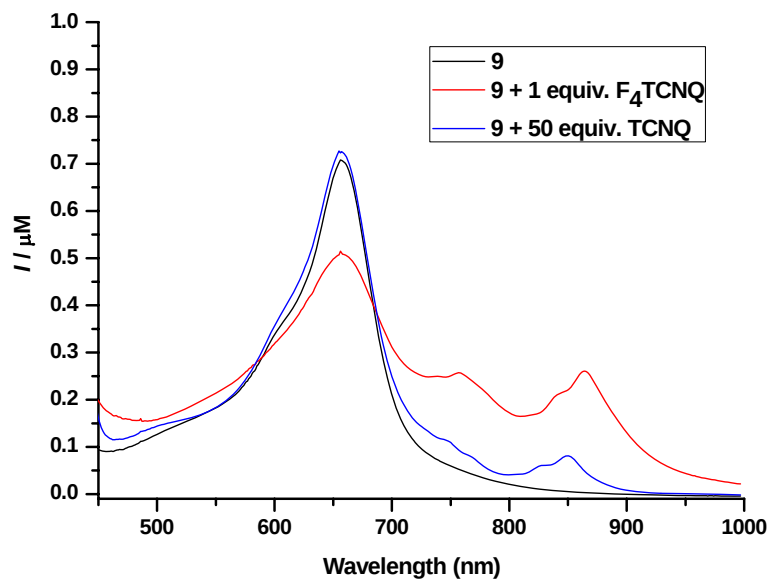


Fig. S8. Absorption spectra of **9** in CH₂Cl₂ (1 × 10⁻⁵ M) in the absence and presence and of 1 equiv. F₄TCNQ and 50 equiv. TCNQ.