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脲基嘧啶酮四氢键二茂铁二聚体：电子相互作用的调控

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Ureidopyrimidinone Quadruple Hydrogen-Bonded Ferrocene Dimer: Control of Electronic Communication

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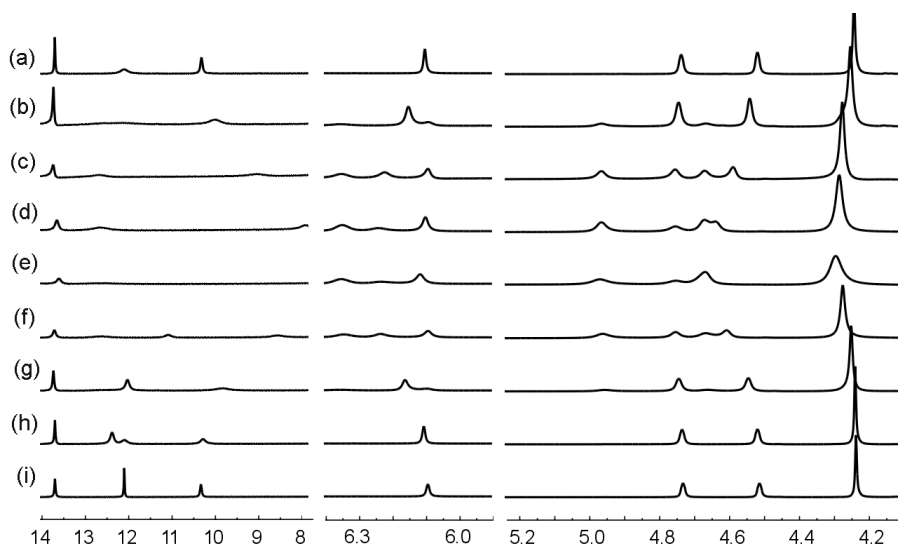


Fig.S1 ^1H NMR spectra of **1** in CDCl_3 ($5 \times 10^{-3} \text{ mol}\cdot\text{L}^{-1}$) upon addition of (a) 0, (b) 0.5, (c) 1.0, (d) 1.5, (e) 2.0 equiv. molar of CF_3COOH and then (f) 0.5, (g) 1.0, (h) 1.5, (i) 2.0 equiv molar of triethylamine (Et_3N)

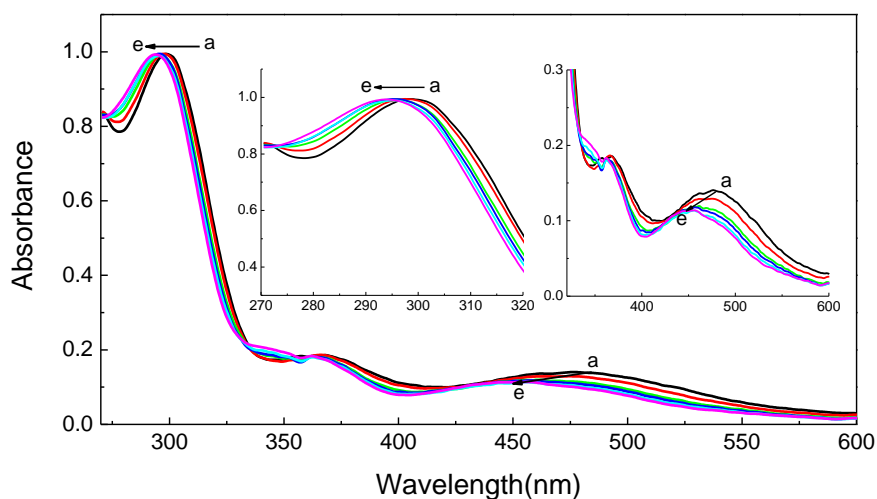


Fig.S2 Absorption spectral changes of compound **1** ($4 \times 10^{-5} \text{ mol}\cdot\text{L}^{-1}$) and CF_3COOH ($8 \times 10^{-5} \text{ mol}\cdot\text{L}^{-1}$) in CHCl_3 upon addition of Et_3N

From line a to line e, the concentration of Et_3N increased from 0 to $8 \times 10^{-5} \text{ mol}\cdot\text{L}^{-1}$.

Inset: the partial magnified figure of the absorption spectra of compound **1**

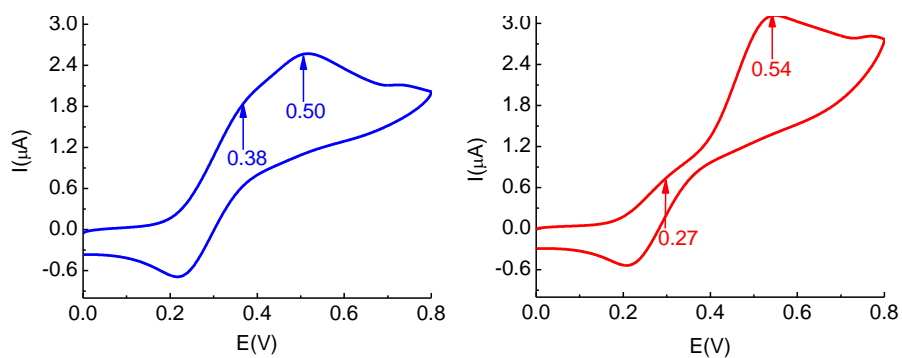


Fig.S3 Cyclic voltammograms of **1** ($4 \times 10^{-4} \text{ mol} \cdot \text{L}^{-1}$) and CF_3COOH ($8 \times 10^{-4} \text{ mol} \cdot \text{L}^{-1}$) in CHCl_3 solution upon addition of (a) 1.0, (b) 2.0 equiv molar of Et_3N . The working and counter electrode were all Pt wire, the reference electrode was SCE, and the scan rate was $100 \text{ mV} \cdot \text{s}^{-1}$.