

Supplementary Material

Fluorosolvatochromism of Platinum Supramolecular Coordination Complexes: Stepwise Synthesis and Photophysical Properties of Organometallic Tetranuclear Pt(II) Squares

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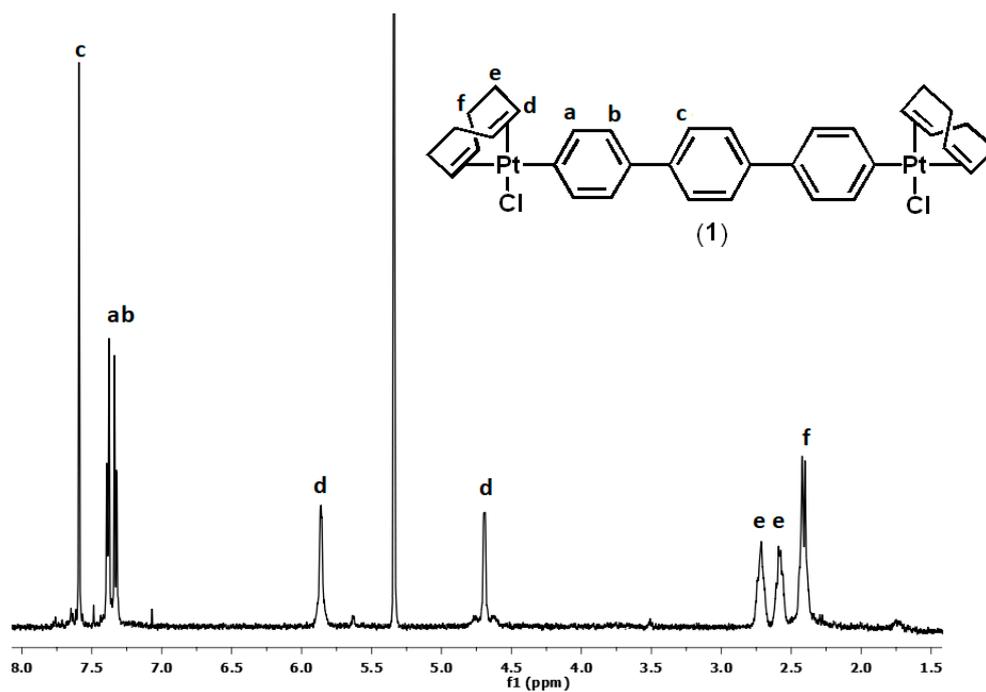


Figure S1. $^1\text{H NMR}$ of complex $[\text{Pt}(\text{COD})\text{Cl}]_2(\mu\text{-terph})$ (1) in CD_2Cl_2 in 500 MHz 298K.

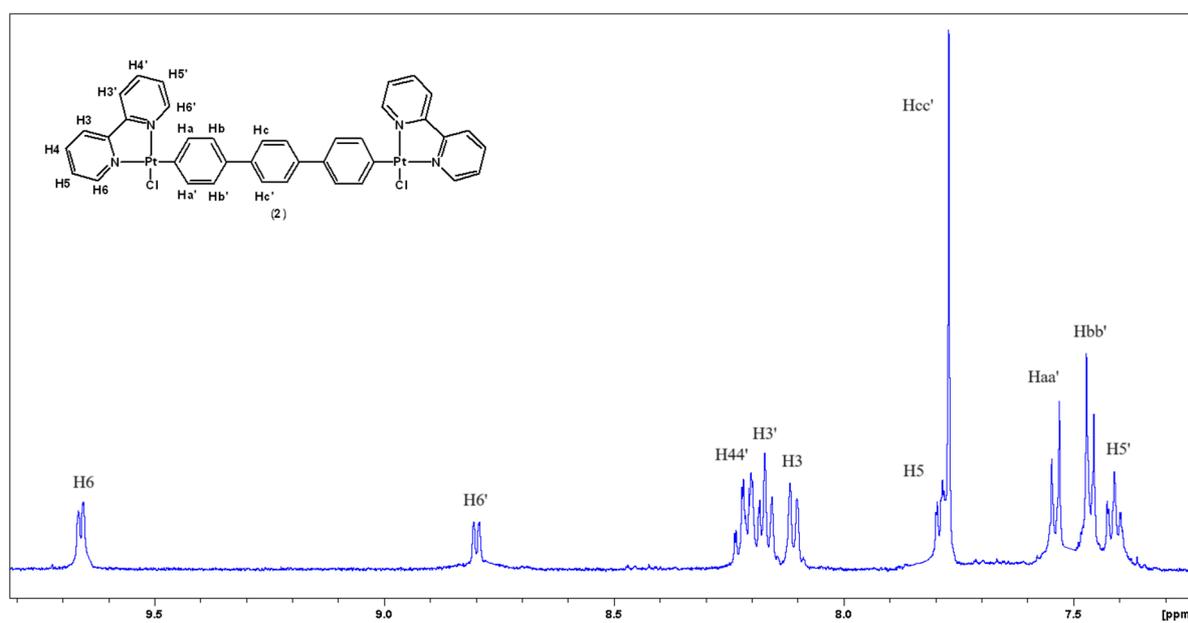


Figure S2. Aromatic region of $^1\text{H NMR}$ of complex $[\text{Pt}(2,2'\text{-bpy})\text{Cl}]_2(\mu\text{-terph})$ (2) in CD_2Cl_2 in 500 MHz 298K.

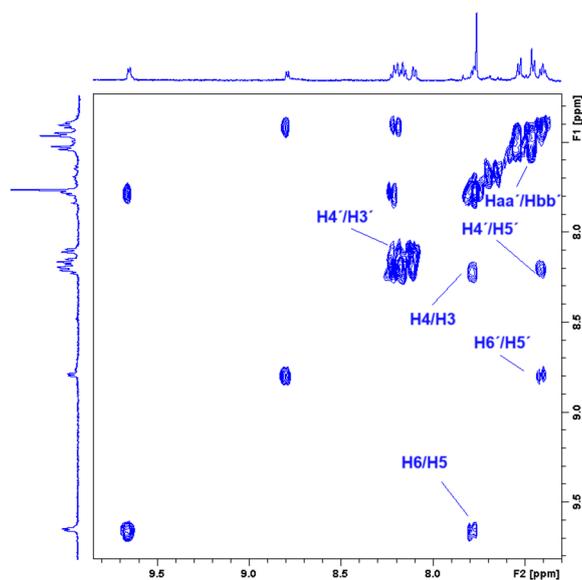


Figure S3. Aromatic region of ^1H - ^1H COSY spectrum of complex $[\text{Pt}(2,2'\text{-bpy})\text{Cl}]_2(\mu\text{-terph})$ (**2**) in CD_2Cl_2 in 500 MHz 298 K with assignment cross-peaks.

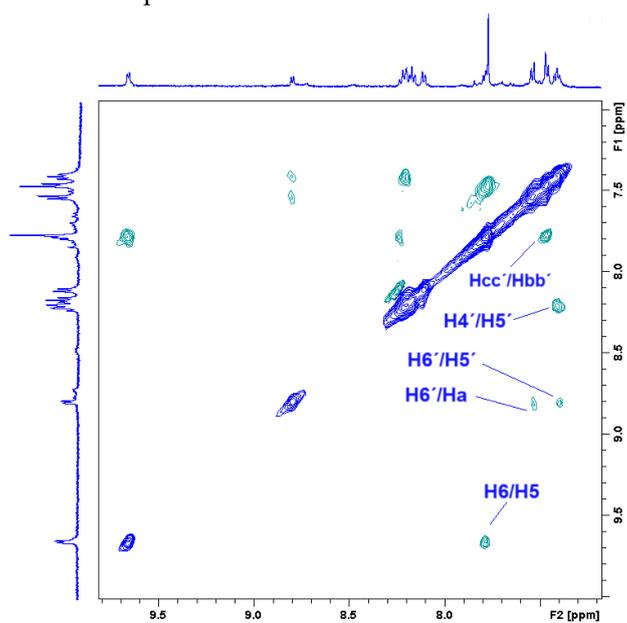


Figure S4. Aromatic region of ROESY spectrum of the complex (**2**) in CD_2Cl_2 in 500 MHz 298 K with cross-peaks assignment.

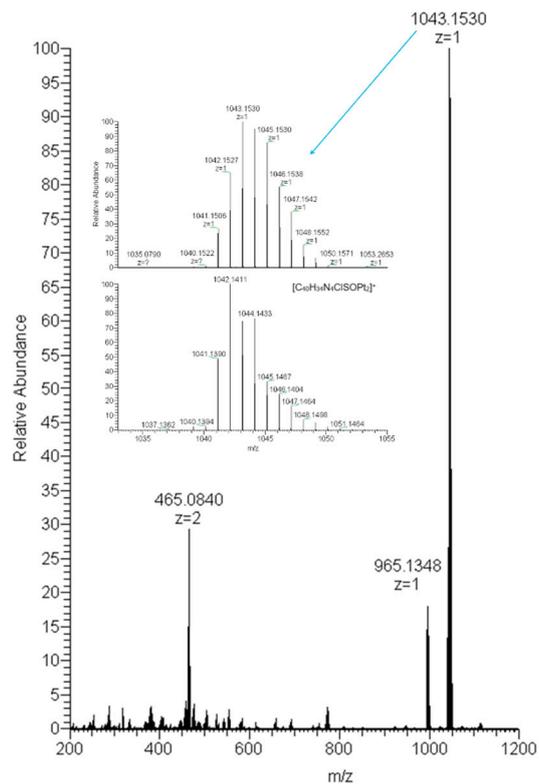


Figure S5. HR-ESI MS spectrum of complex $[Pt(2,2'-bpy)Cl]_2(\mu\text{-terph})$ (2).

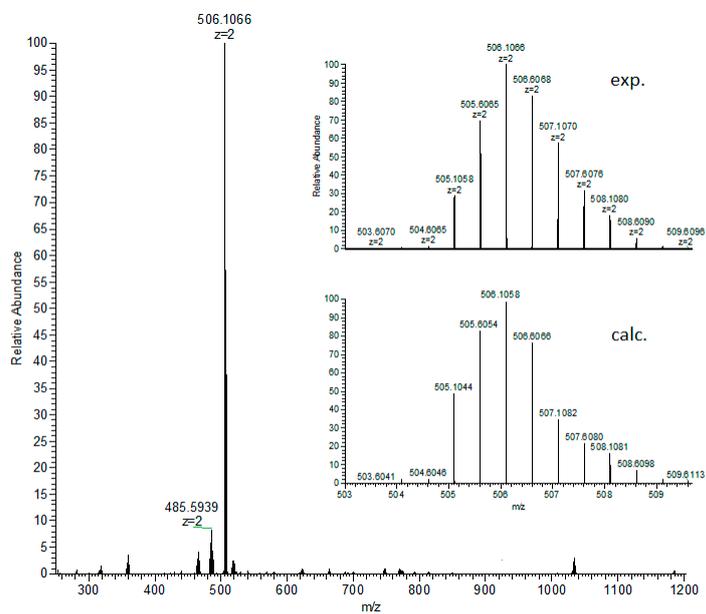


Figure S6. HR-ESI MS spectrum of complex $\{[Pt(2,2'-bpy)(CH_3CN)]_2(\mu\text{-terph})\}(NO_3)_2$ (3).

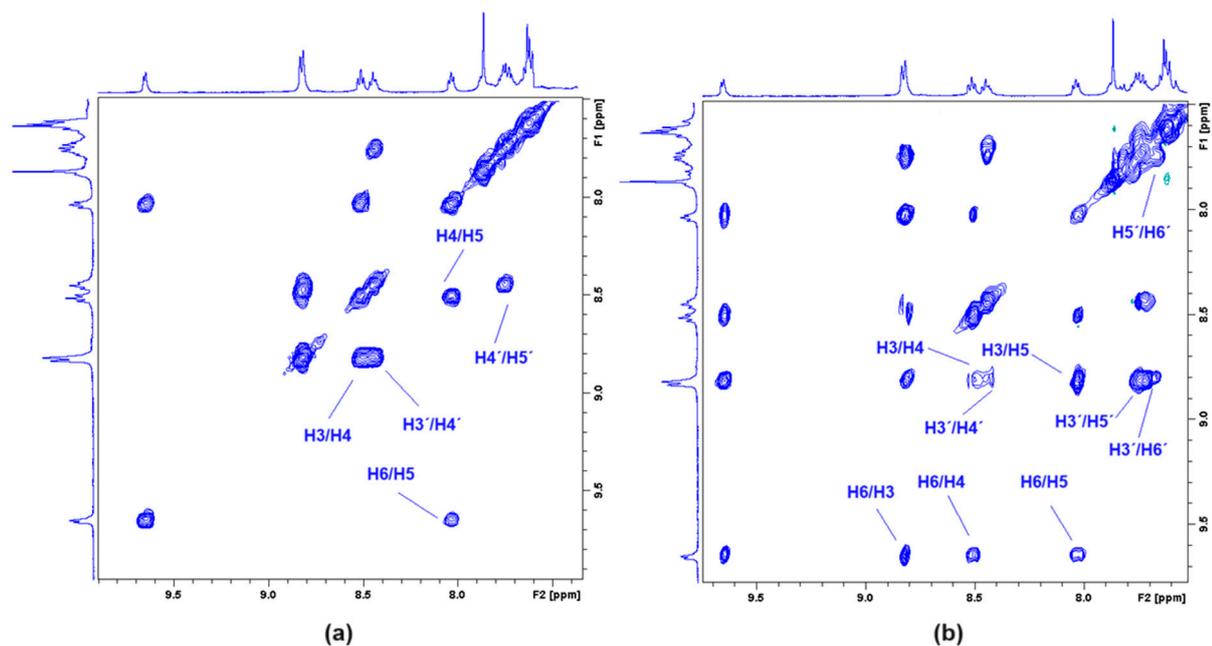


Figure S7. Aromatic region of ^1H - ^1H COSY (a) and ^1H - ^1H TOCSY (b) spectra of complex $\{[\text{Pt}(2,2'\text{-bpy})(\text{CH}_3\text{CN})]_2(\mu\text{-terph})\}(\text{NO}_3)_2$ (**3**) in DMSO-d_6 in 500 MHz 298 K with assignment cross-peaks.

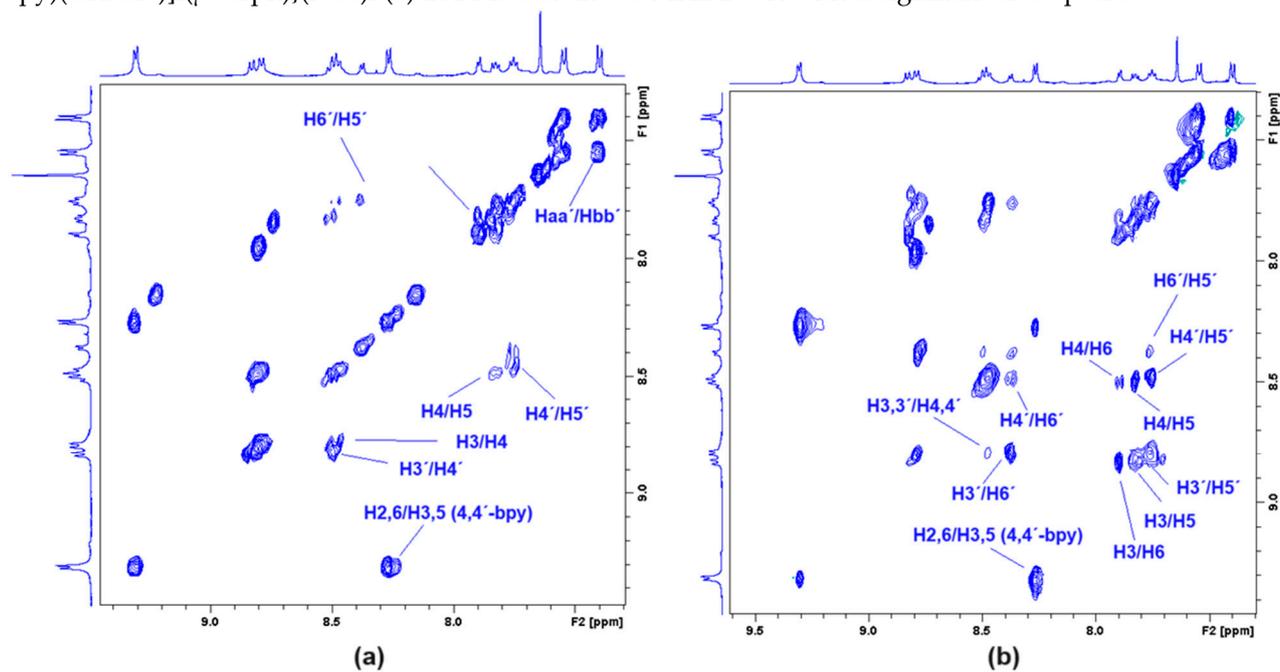


Figure S8. Aromatic region of ^1H - ^1H COSY (a) and ^1H - ^1H TOCSY (b) spectra of complex $\{[\text{Pt}(2,2'\text{-bpy})]_4(\mu\text{-terph})_2(\mu\text{-}(4,4'\text{-bpy})_2)\}(\text{PF}_6)_4$ (**7**) in DMSO-d_6 in 500 MHz 298 K with assignment cross-peaks.

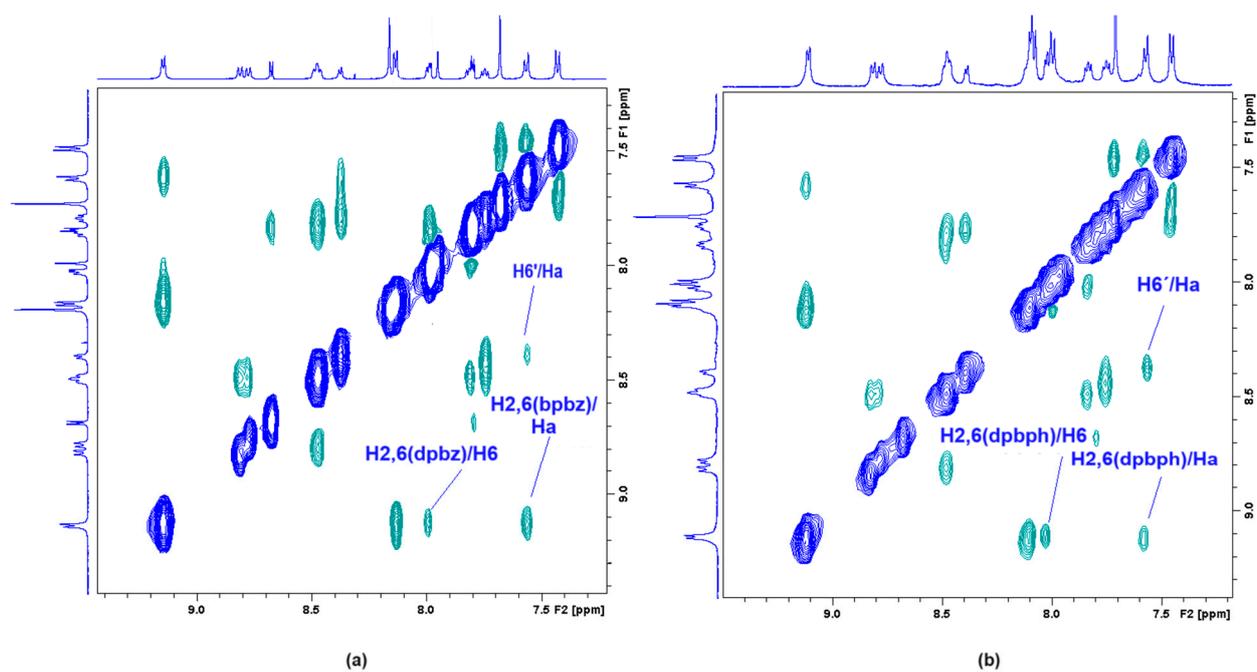


Figure S9. Aromatic region of ^1H - ^1H ROESY spectra of the complex (8) (a) and (9) (b) in DMSO-d_6 at 298 K in 500 MHz with assignment at inter-ligand cross-peaks.