

Supramolecular Frameworks and a Luminescent Coordination Polymer from New β -Diketone/Tetrazole Ligands

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Supporting information

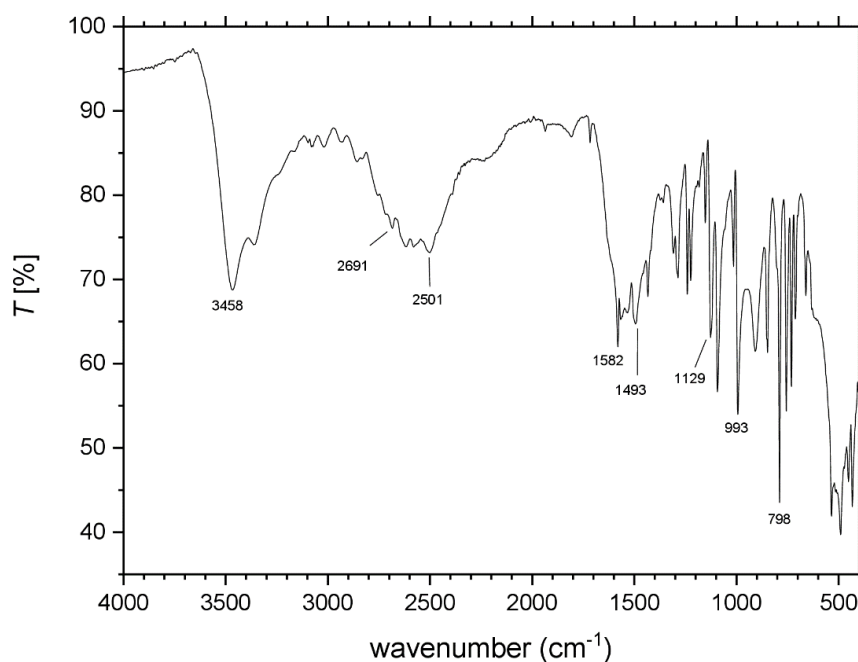


Figure S1. FT-IR spectrum of H_3L^1 acquired in ATR mode.

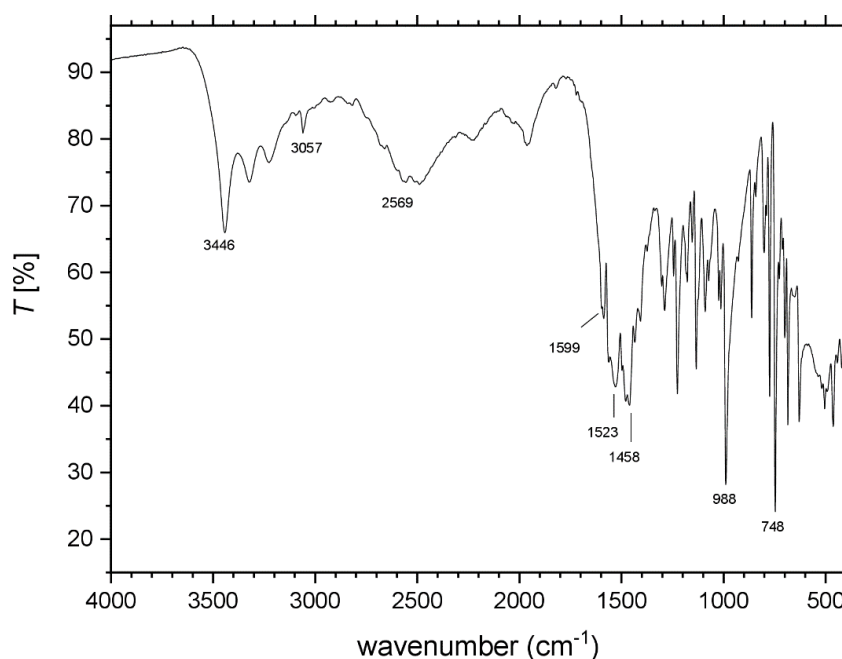
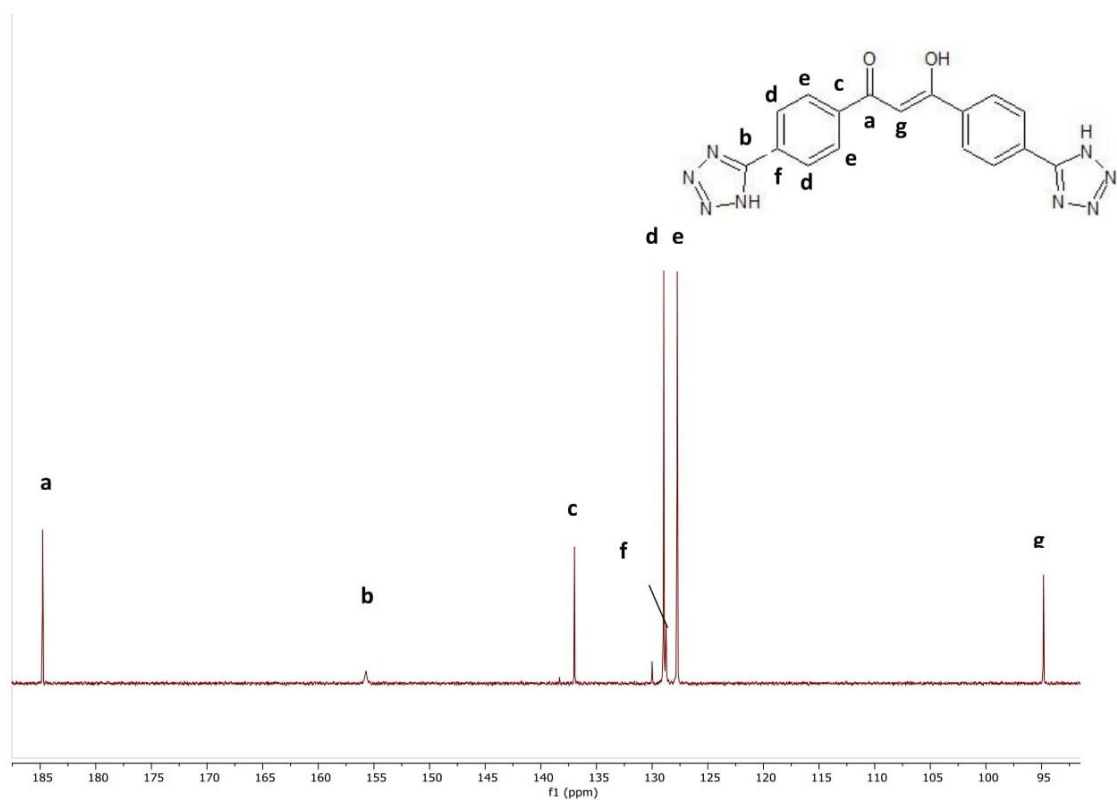
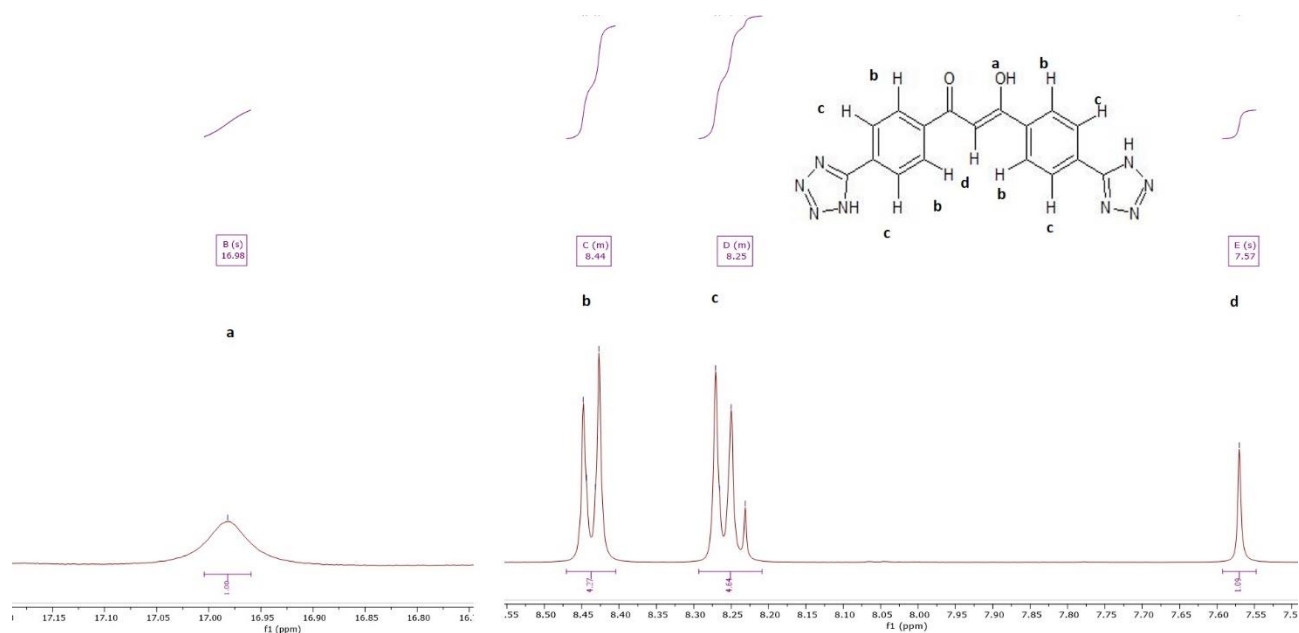


Figure S2. FT-IR spectra of H_2L^2 acquired in ATR mode.



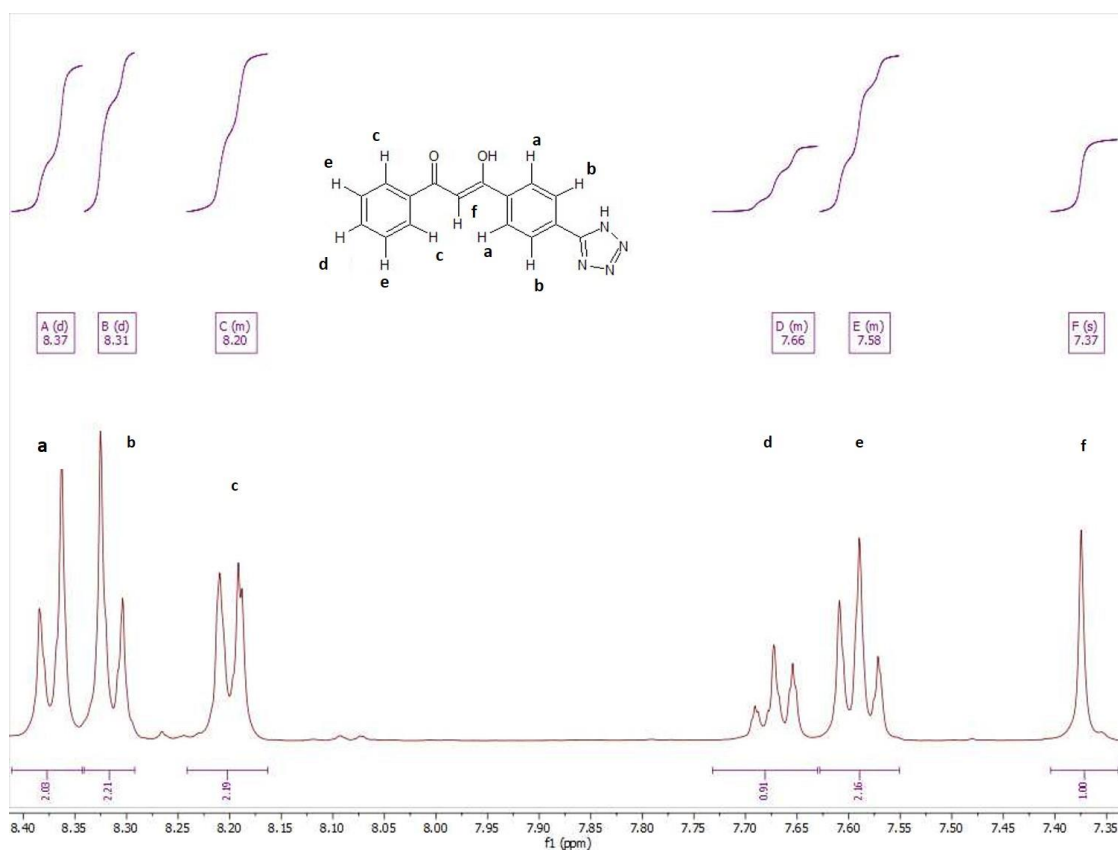


Figure S5. 1H NMR for H_2L^2 (acetone- d_6 , 300 K, 9.4 T).

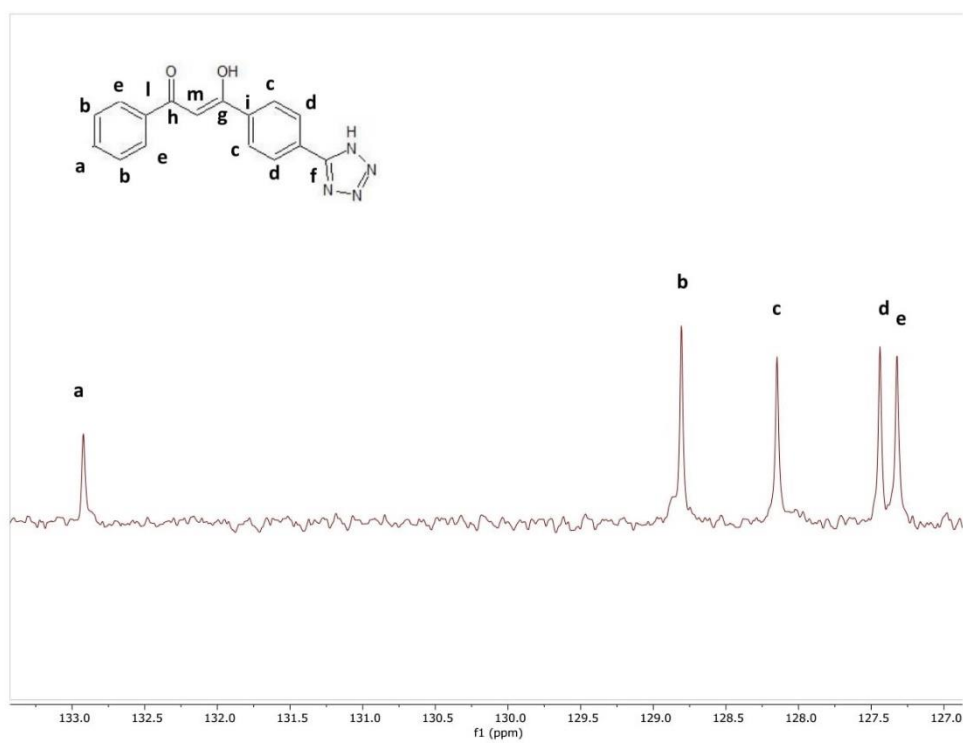


Figure S6. $^{13}C\{^1H\}$ NMR for H_2L^2 (acetone- d_6 , 300 K, 9.4 T).

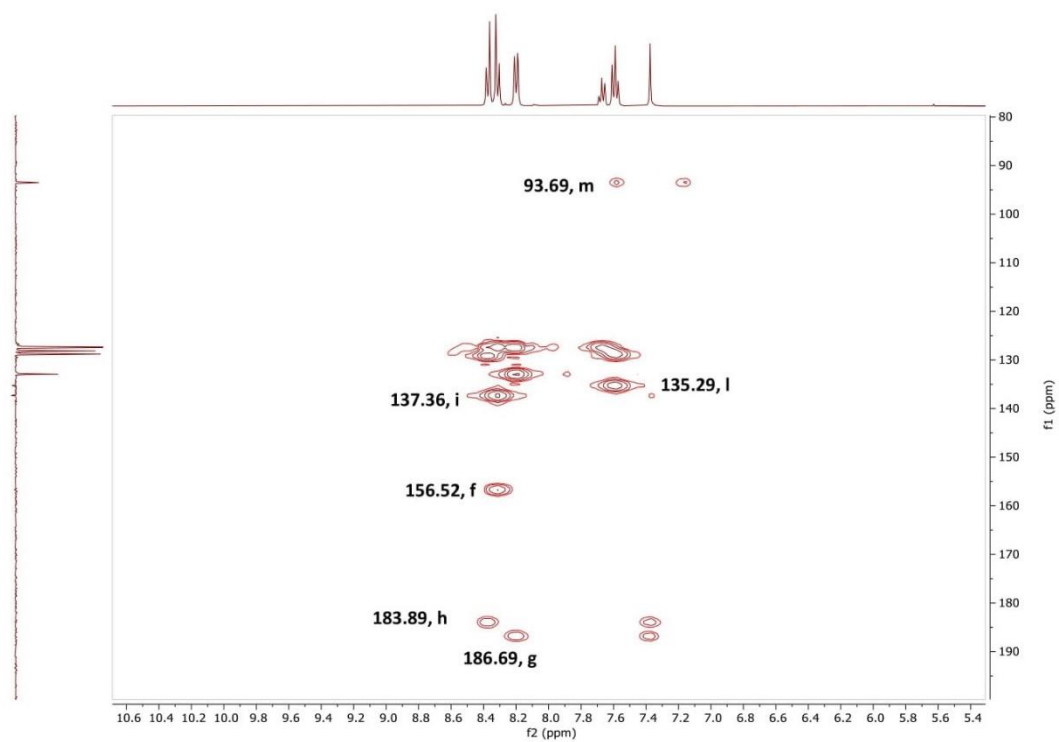


Figure S7. 2D ^1H - ^{13}C NMR heteronuclear scalar correlation experiment for H_2L^2 (acetone- d_6 , 300 K, 9.4 T).

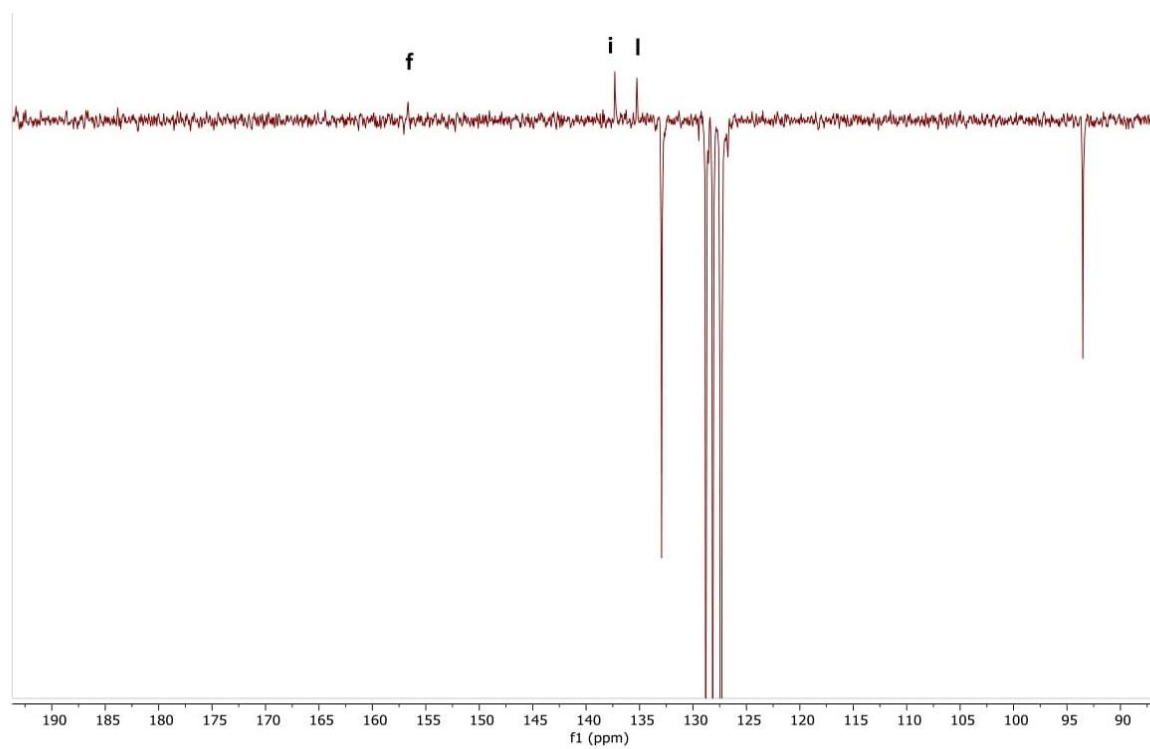


Figure S8. $^{13}\text{C}\{^1\text{H}\}$ APT NMR for H_2L^2 (acetone- d_6 , 300 K, 9.4 T).

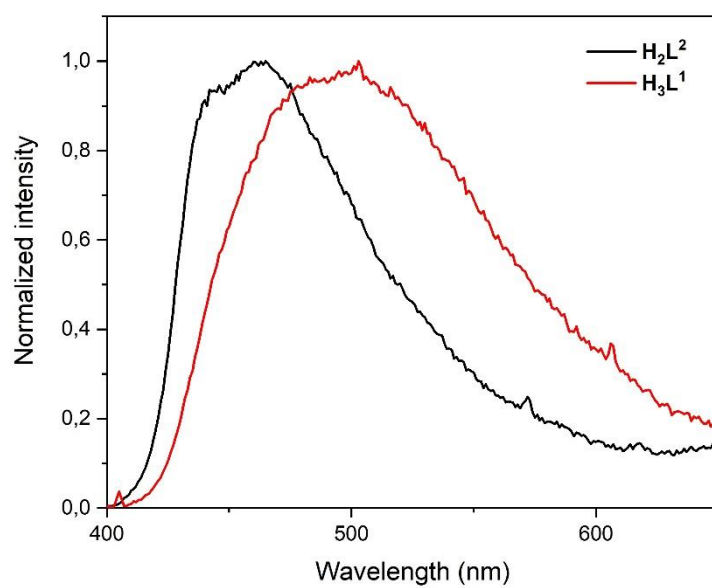


Figure S9. Emission spectra of H_3L^1 and H_2L^2 in the solid state ($\lambda_{exc} = 370$ nm).

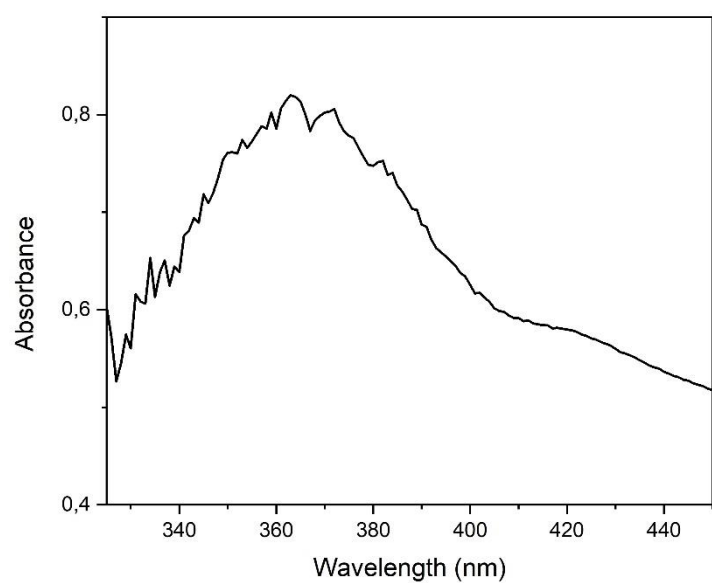


Figure S10. Absorption spectrum of a suspension of **2** exfoliated in water.

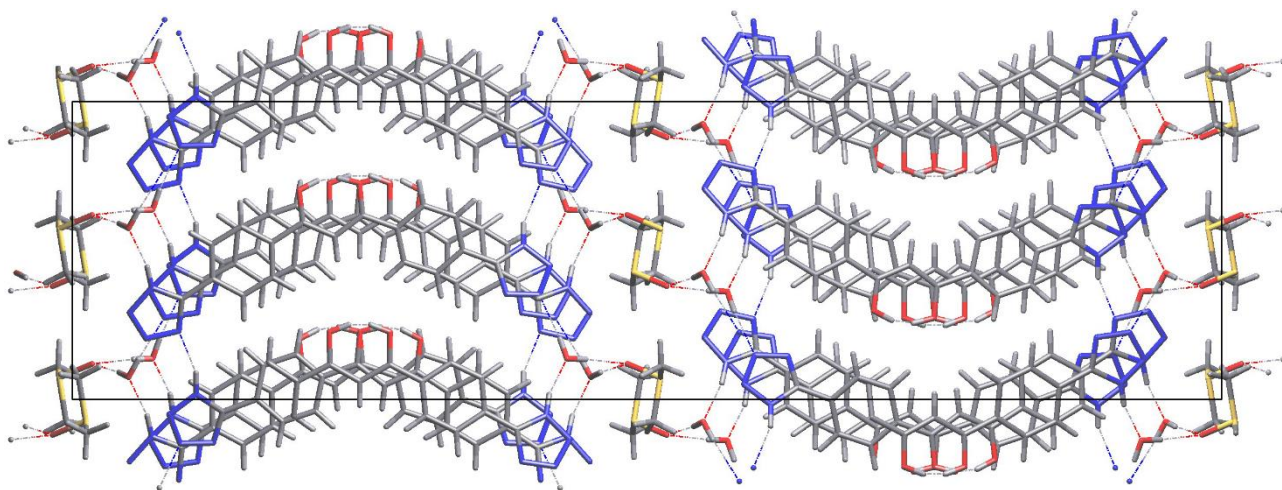


Figure S11. View along **a** of the packing in the crystal structure of $3\text{H}_3\text{L}^1 \cdot 2\text{DMSO} \cdot 4\text{H}_2\text{O}$.

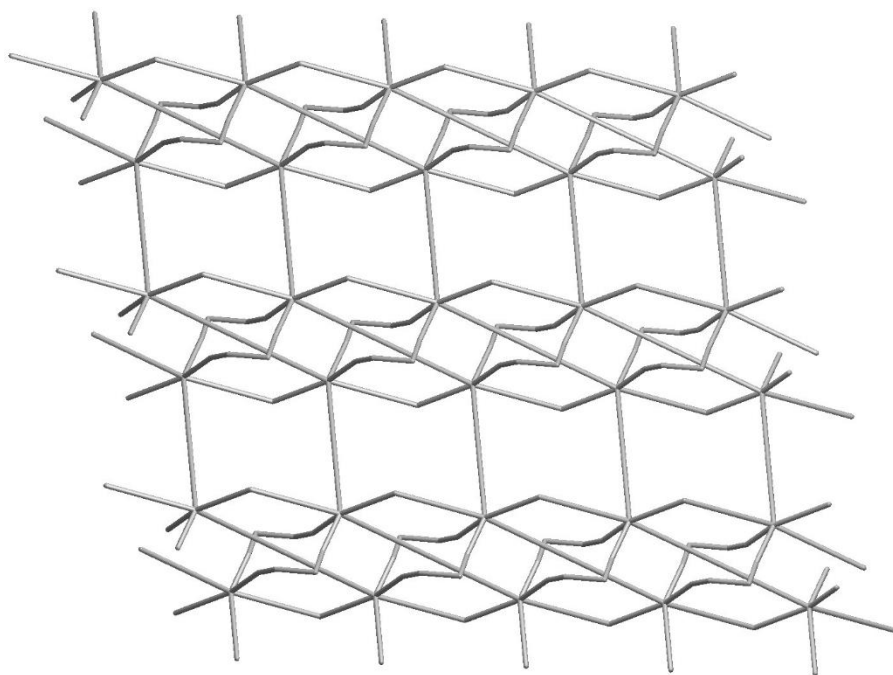


Figure S12. Simplified net of topological type (6,3)IIa for the crystal structure of $[\text{NEt}_4][\text{Fe}(\text{HL}^1)_3] \cdot 3\text{THF}$ (**1**).