

Supporting materials

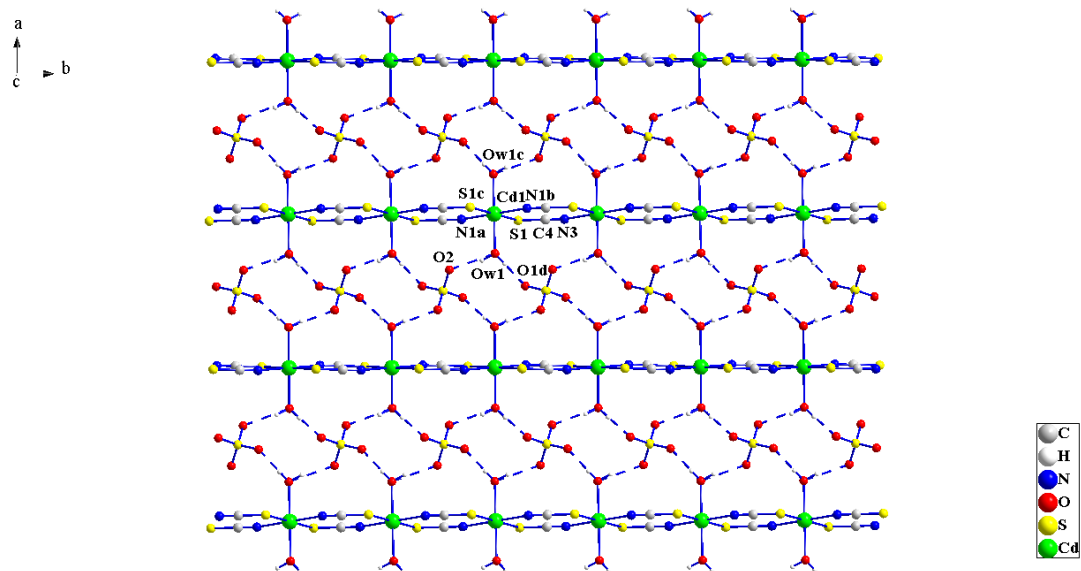
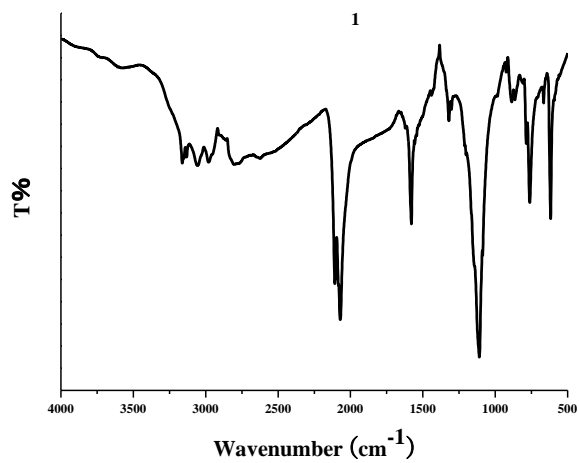
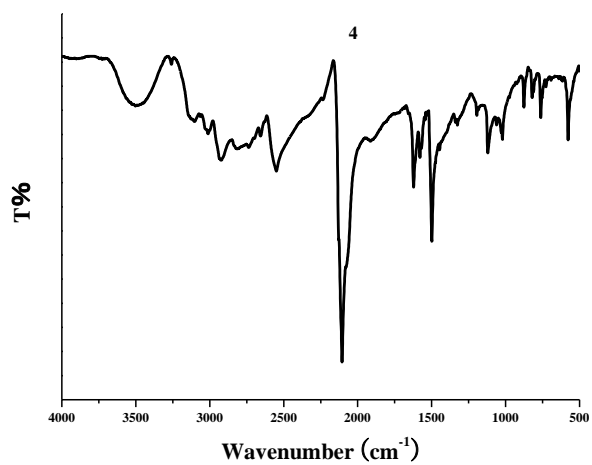
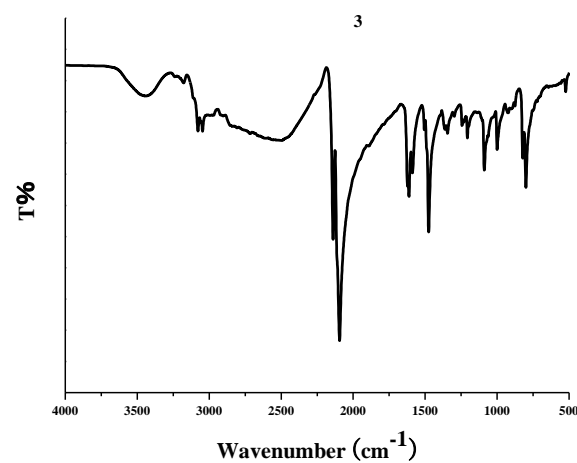
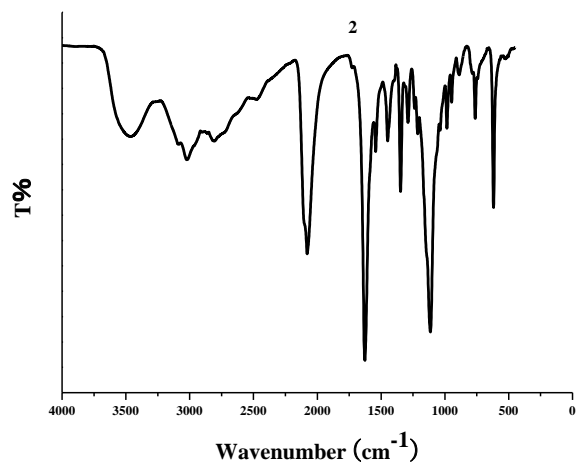


Fig. S1 The 2-D supramolecular network for $[\text{Cd}(\text{SCN})_2(\text{H}_2\text{O})_2]\text{SO}_4^{2-}$ in compound **1**.





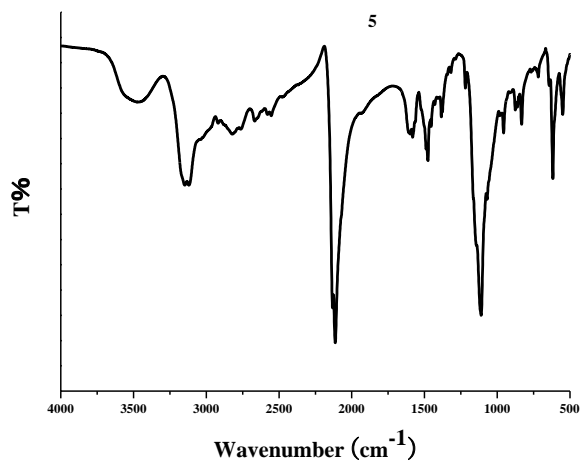


Fig. S2 The IR spectra of compounds 1-5.

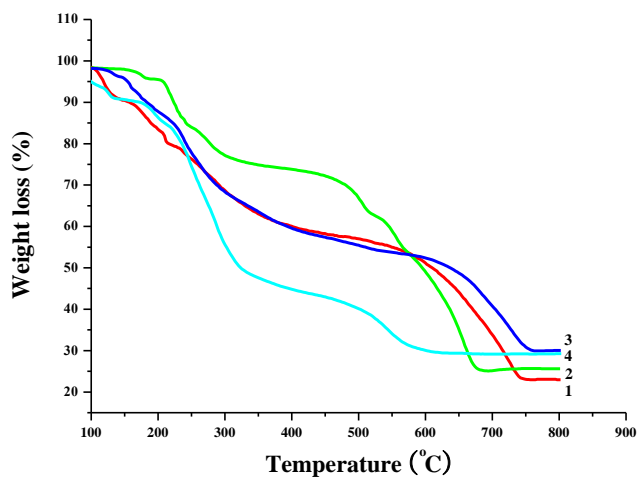
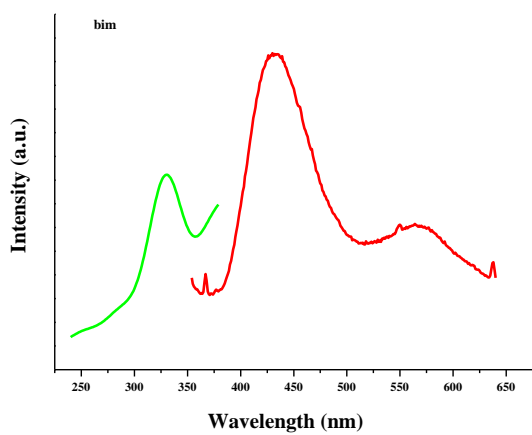


Fig. S3 The TG curves of compounds 1-4.



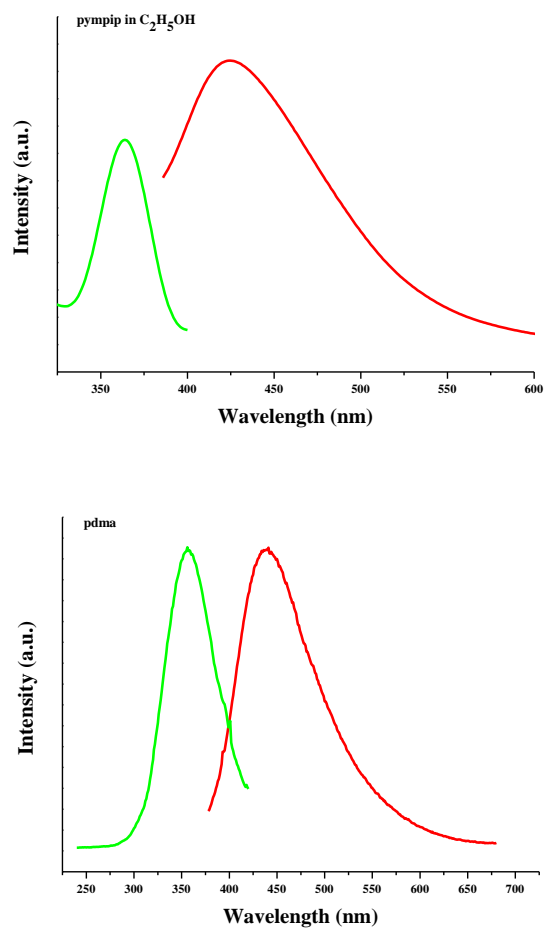


Fig. S4 The excitation (green) and emission (red) spectra of the organic molecules in compounds **1**, **2** and **5**.