

Supporting Information

((1-H-tetrazol-5-yl)methyl)pyridine -based Metal Coordination Complexes: In Situ Syntheses, Crystal Structures, Luminescent Properties

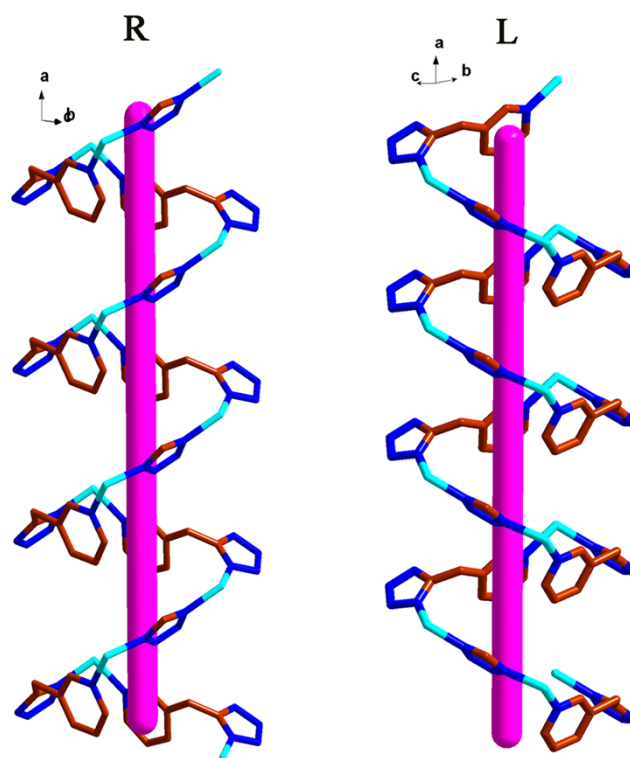


Figure S1₁. The R & L helical chains in complex **2**. right: the R helical chain; left: the L helical chain.

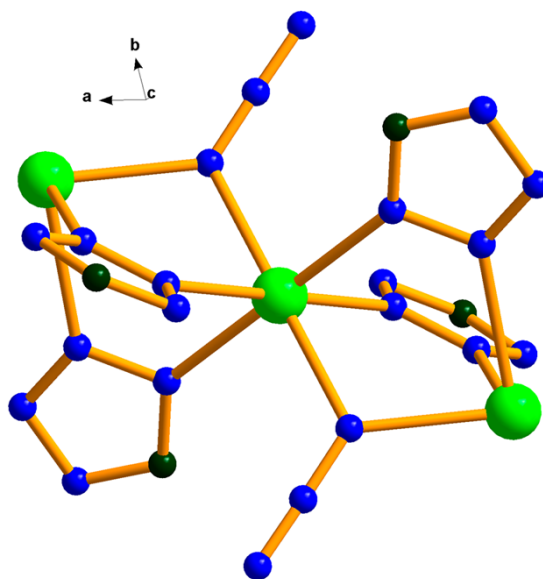


Figure S1₂. The trinuclear $[\text{Cd}_3(\text{N}_3)_2]$ building unit of complex **3**, C atoms were omitted for clear.

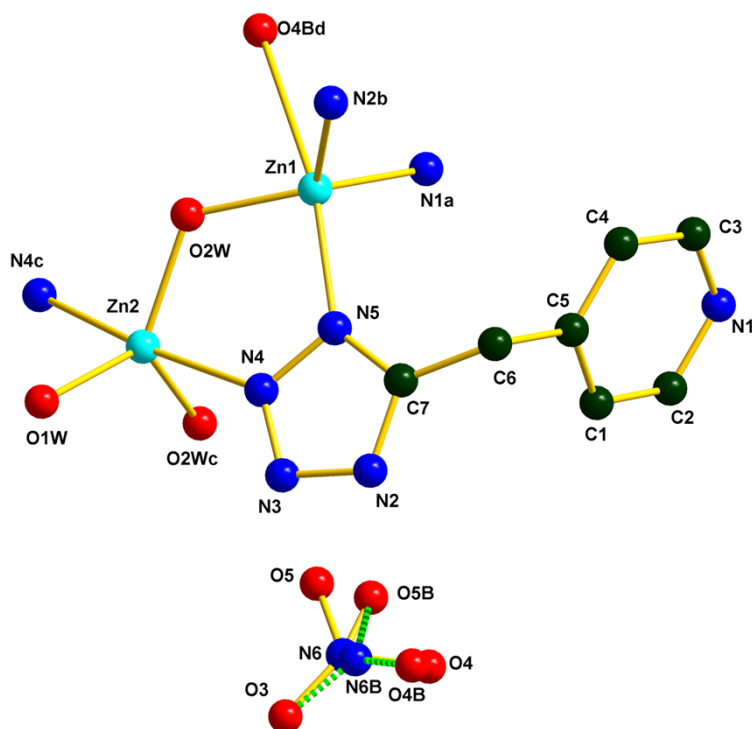


Figure S1₃. View of the disordered units of complex **4**. Complex **4** exhibits 1:1 disorder of the free NO_3^- anions existing in the channels of complex **4**. The disorder is created by the presence of a crystallographic mirror plane or a two-fold axis.

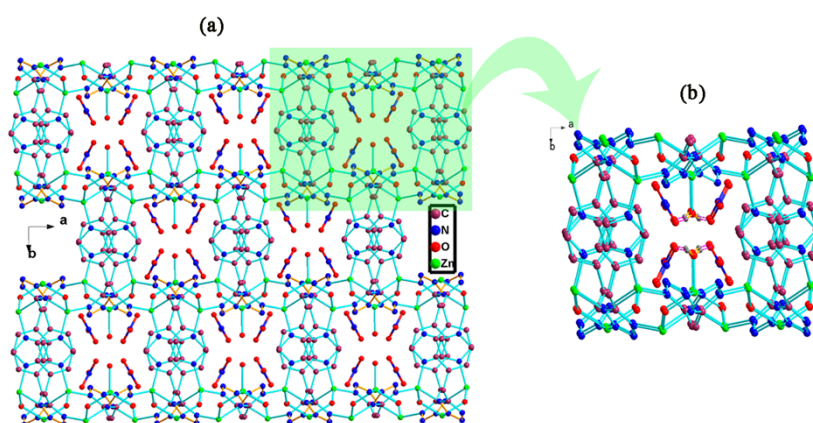


Figure S1₄. (a) View of 3D MOF with free NO_3^- anions situated in channels along the c -axis of complex 4; (b) hydrogen bond between free NO_3^- anions and O1W .

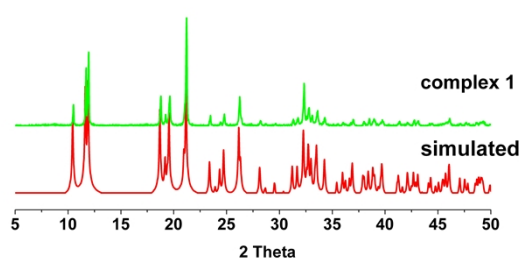


Figure S2₁. Powder XRD: Patterns of simulated and as-prepared of 1.

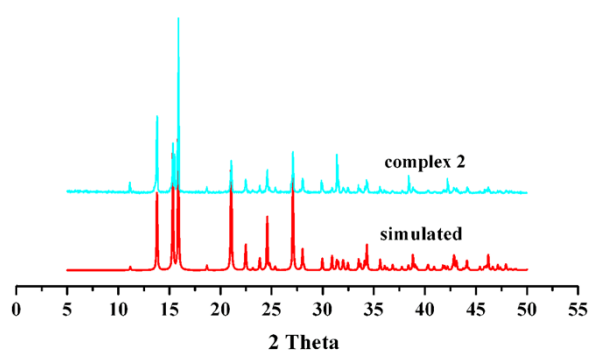


Figure S2₂. Powder XRD: Patterns of simulated and as-prepared of 2.

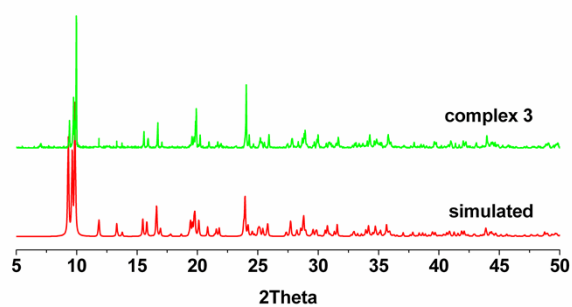


Figure S2₃. Powder XRD: Patterns of simulated and as-prepared of **3**.

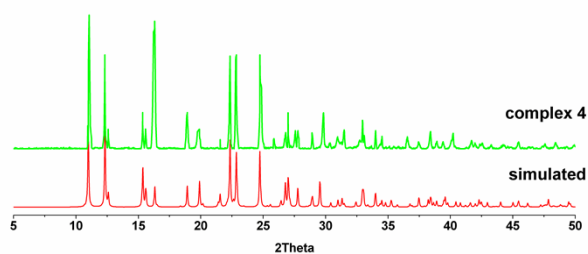


Figure S2₄. Powder XRD: Patterns of simulated and as-prepared of **4**.

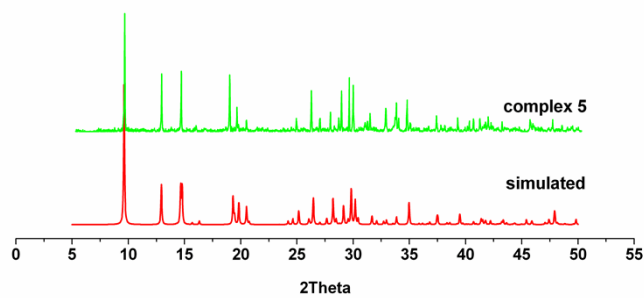


Figure S2₅. Powder XRD: Patterns of simulated and as-prepared of **5**.

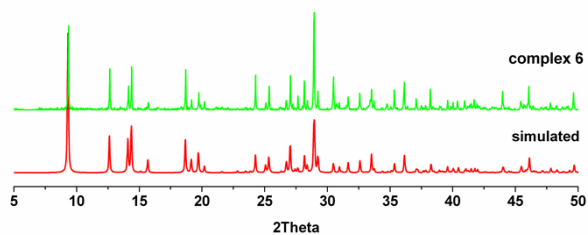


Figure S2₆. Powder XRD: Patterns of simulated and as-prepared of **6**.

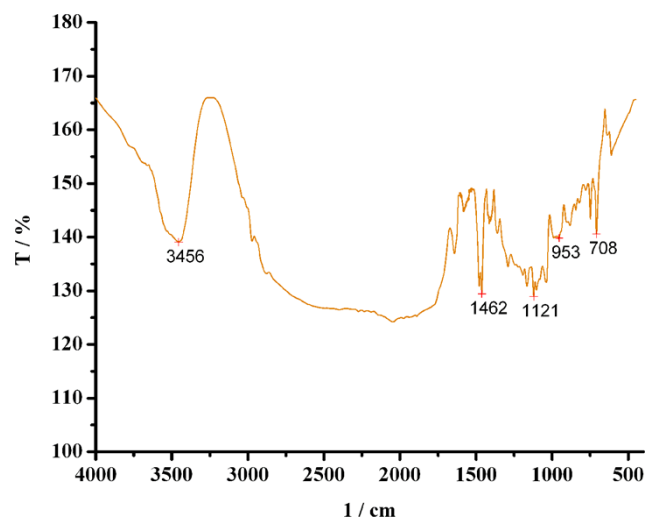


Figure S3₁. IR spectra of complex 1

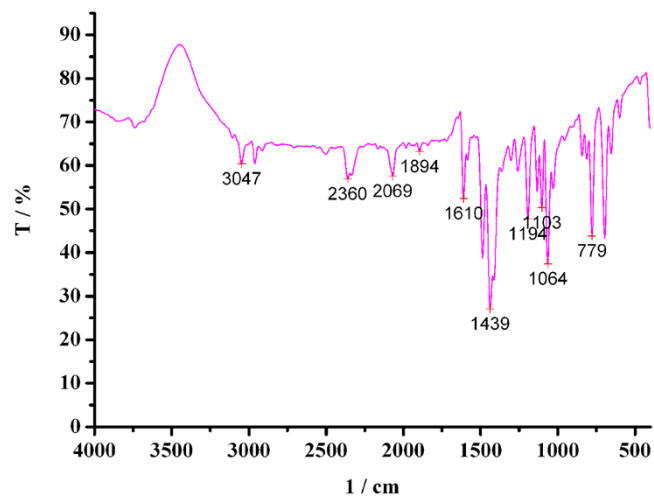


Figure S3₂. IR spectra of complex 2

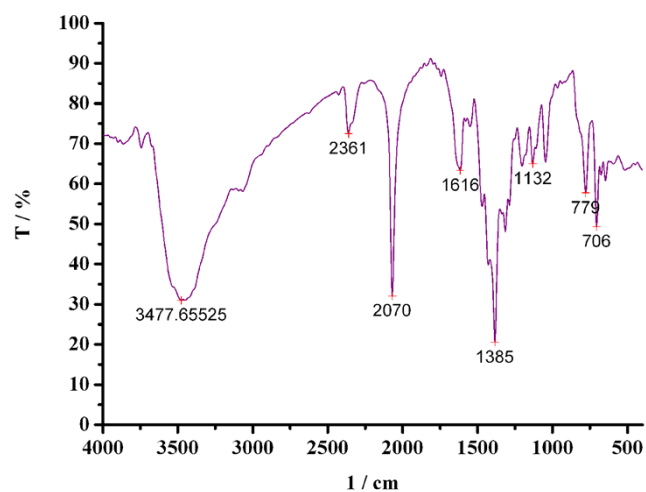


Figure S3₃. IR spectra of complex 3

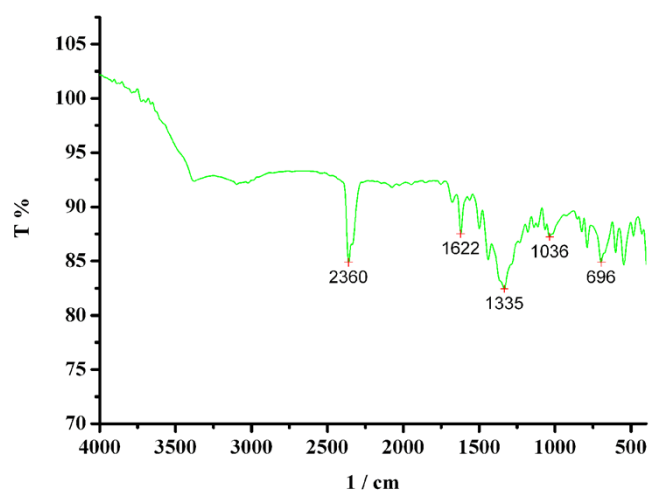


Figure S3₄. IR spectra of complex 4

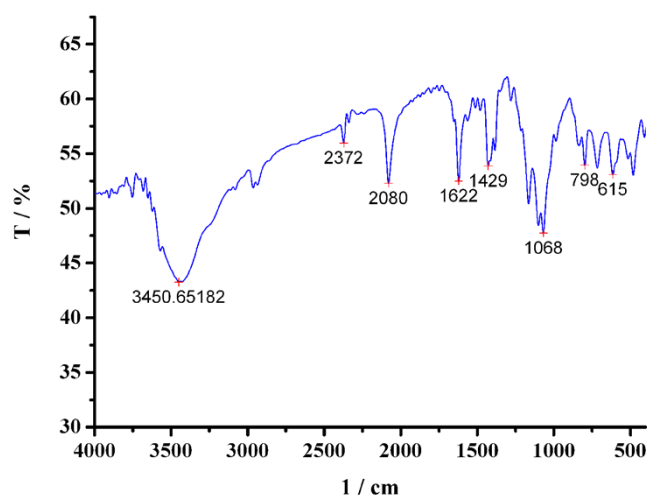


Figure S3₅. IR spectra of complex 5

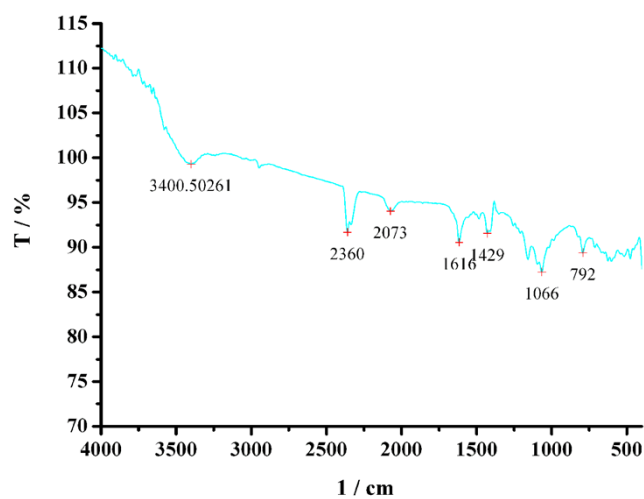


Figure S3₆. IR spectra of complex 6

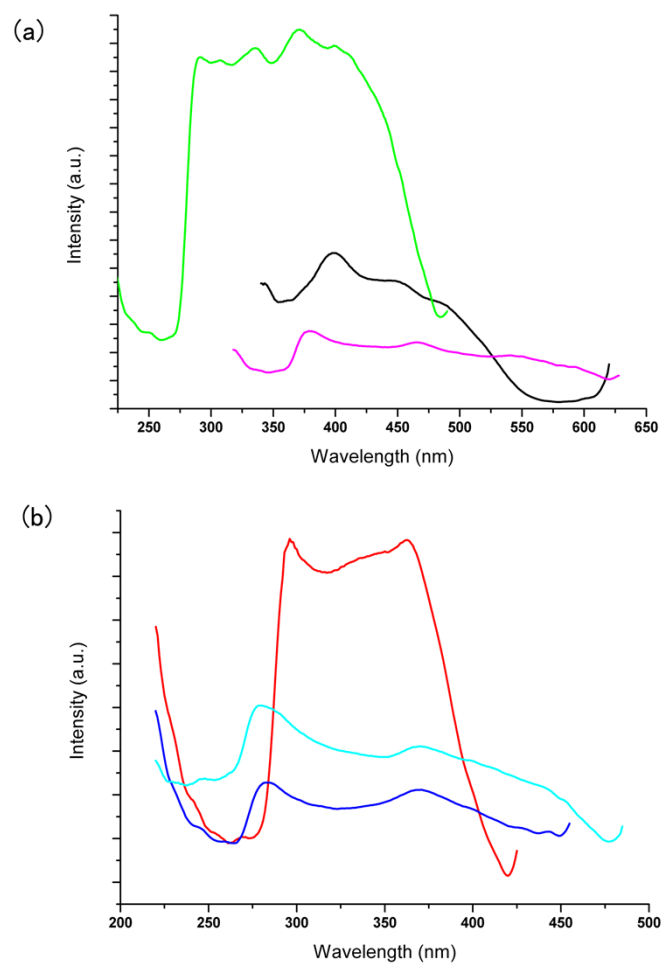


Figure S4. (a) Solid-state excitation spectra of complexes **1**, **3** and **6**. **1**: black; **3**: green; **6**: pink. **(b)** Solid-state excitation spectra of complexes **2**, **4** and **5**. **2**: red; **4**: blue; **5**: cyan.