Electronic Supplementary Material (ESI) for CrystEngComm. This journal is © The Royal Society of Chemistry 2021

Zn(II) and Cd(II) coordination polymers with a new angular bispyridyl-bis-amide: synthesis, structures and sensing properties

Xiang-Kai Yang, Wei-Te Lee, Ji-Hong Hu and Jhy-Der Chen*

Department of Chemistry, Chung-Yuan Christian University, Chung-Li 320, Taiwan, R. O. C.

Fig. S1 ¹H NMR of ligand L in DMSO-d⁶

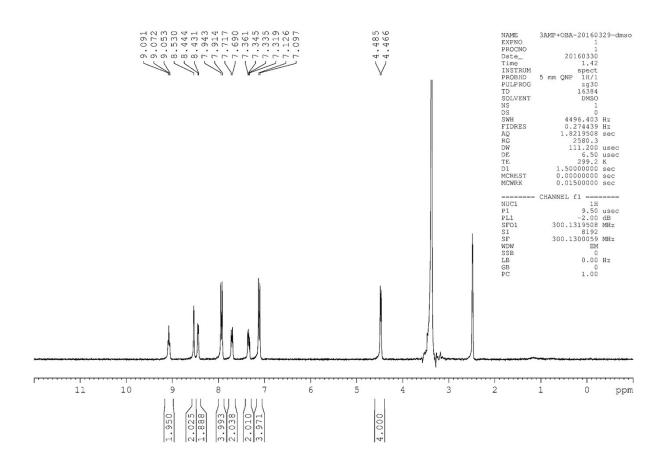


Fig. S2 Ion-Trap-MS of ligand L dissolved in methanol

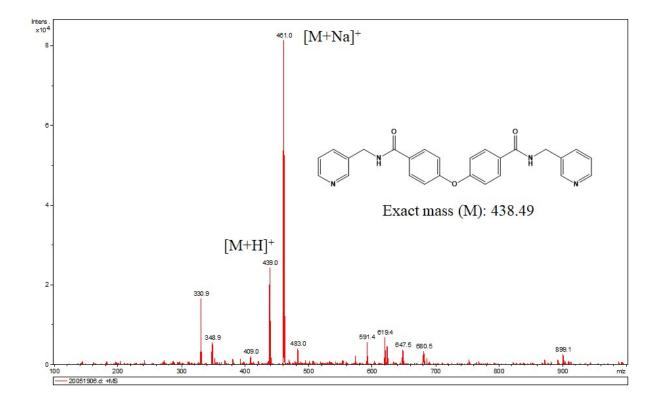


Fig. S3 IR spectrum of L.

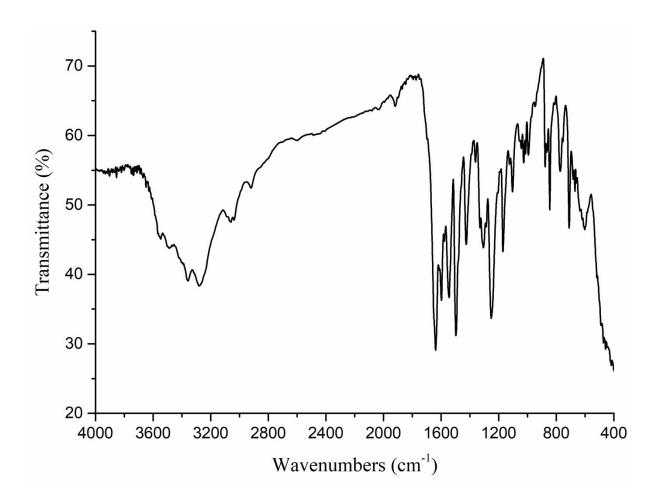


Fig. S4 IR spectrum of 1.

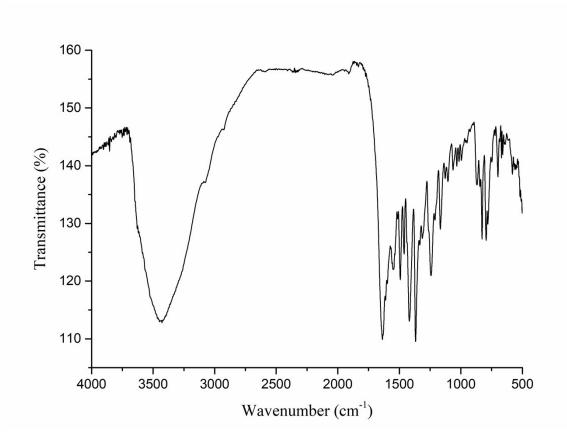


Fig. S5 IR spectrum of 2.

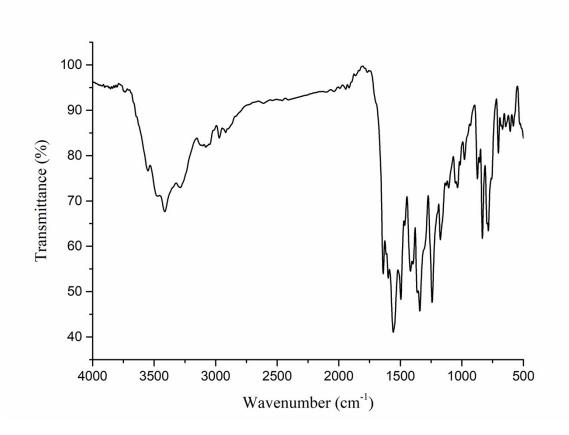


Fig. S6 The PXRD patterns of (a) simulated single-crystal x-ray data and (b) bulk materials as synthesized for complex **1**.

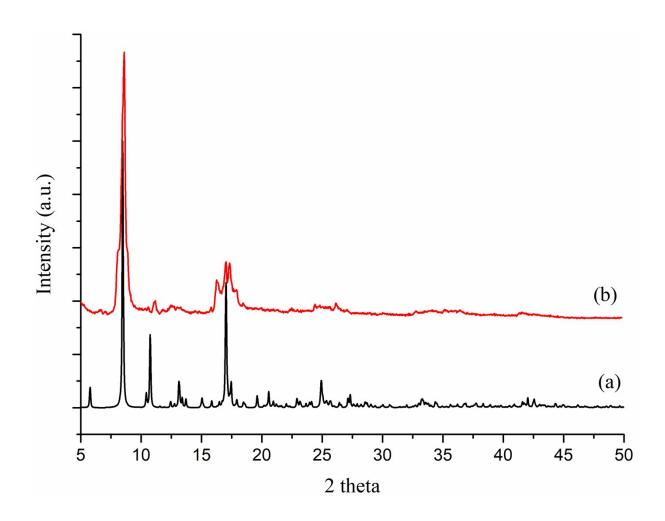


Fig. S7 The PXRD patterns of (a) simulated single-crystal x-ray data and (b) bulk materials as synthesized for complex **2**.

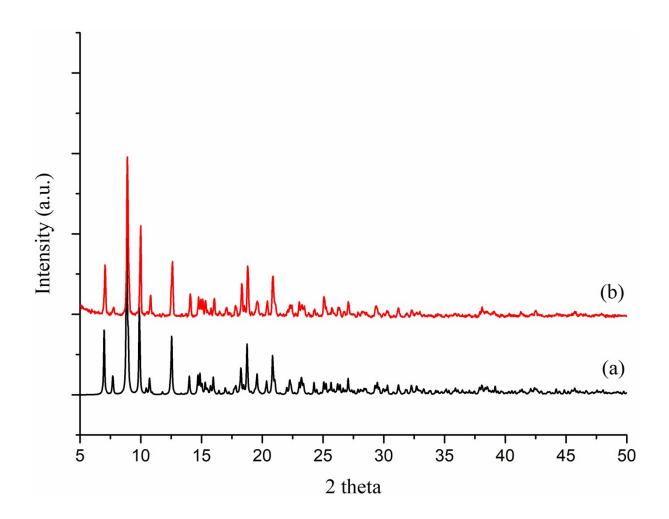


Fig. S8 The thermal gravimetric analysis (TGA) curve for complex 1.

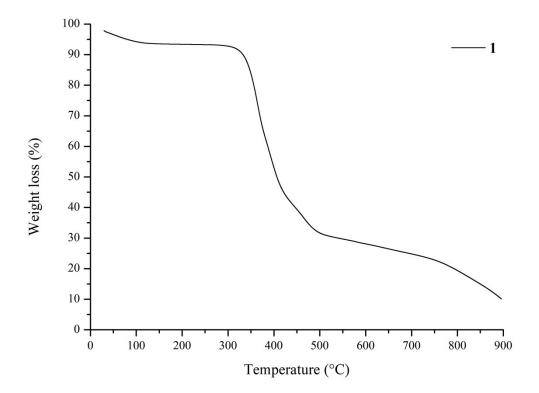


Fig. S9 The thermal gravimetric analysis (TGA) curve for complex 2.

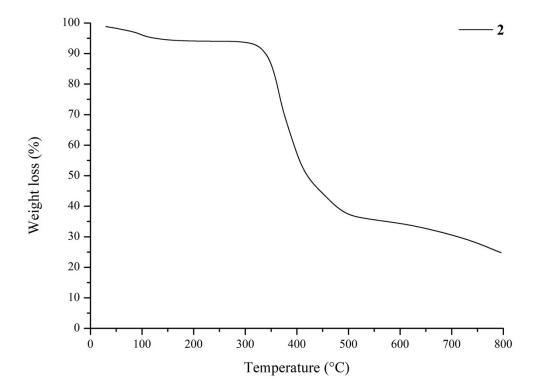


Fig. S10 PXRD patterns of **1** upon removal and adsorption of the water molecules.

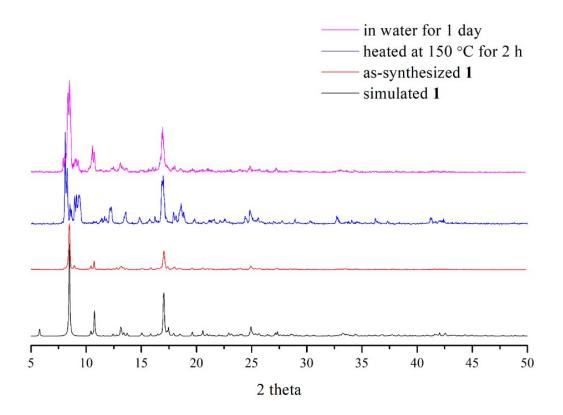


Fig. S11 PXRD patterns of **2** upon removal and adsorption of the water molecules.

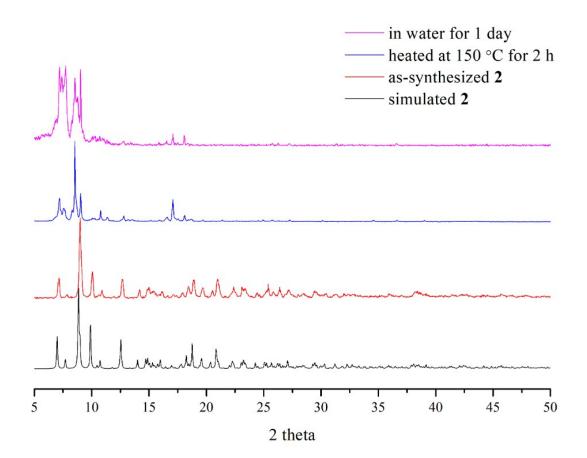


Fig. S12 N_2 sorption isotherm of the desolvated 1.

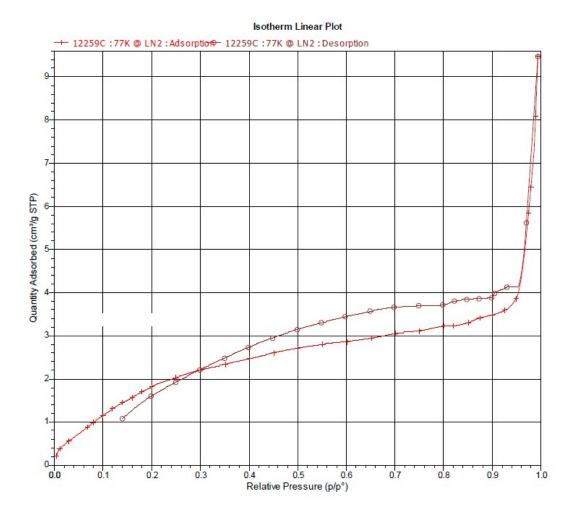


Fig. S13 N_2 sorption isotherm of the desolvated 2.

