Zn(II) and Cd(II) coordination polymers with a new angular bis-pyridyl-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 $^1$H NMR of ligand L in DMSO-d$_6$
Fig. S2 Ion-Trap-MS of ligand L dissolved in methanol

Exact mass (M): 438.49
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 $\text{N}_2$ sorption isotherm of the desolvated 2.