ELECTRONIC SUPPORTING INFORMATION

A Flexible Cd^{2+} Metal Organic Framework with a Unique (3,3,6)-Connected Topology, Unprecedented Secondary Building Units and Single Crystal to Single Crystal Solvent Exchange Properties

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**Fig. S1** The experimental and calculated from single crystal X-ray diffraction data PXRD patterns for UCY-3.

**Fig. S2** The dihedral angles between the planes of the phenyl rings of the two crystallographically independent CIP$^3-$ ligands [(a) ligand A and (b) ligand B], in UCY-3.
**Fig. S3** The (a) excitation and (b) emission (obtained with exc. wavelength of 347 nm) spectra of the H$_2$CIP ligand.

**Fig. S4** The dihedral angles between the planes of the phenyl rings of the two crystallographically independent CIP$^3-$ ligands [(a) ligand A and (b) ligand B], in UCY-3/benzene.