

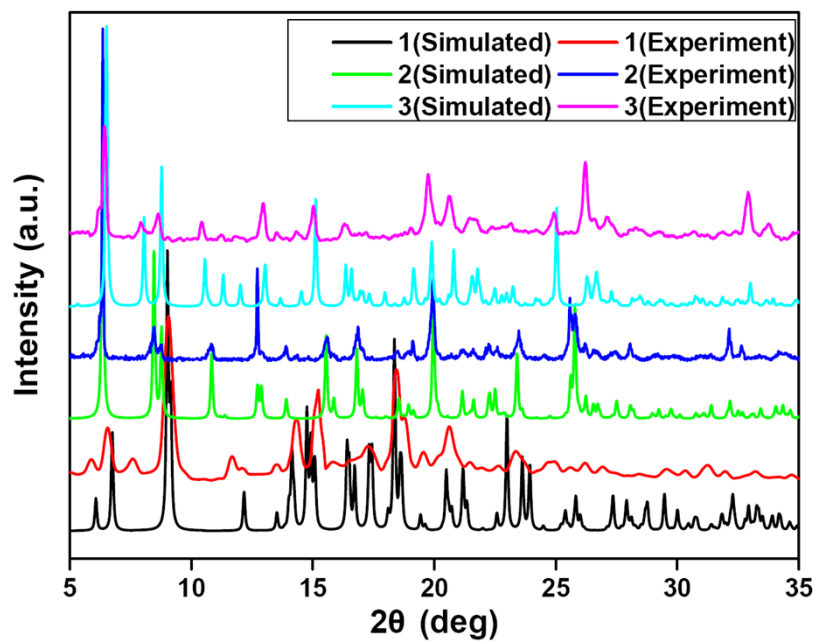
Electronic Supplementary Information

Structural diversity and photocatalytic properties of Cd(II) coordination polymers constructed by a flexible V-shaped bipyridyl benzene ligand and dicarboxylate derivatives

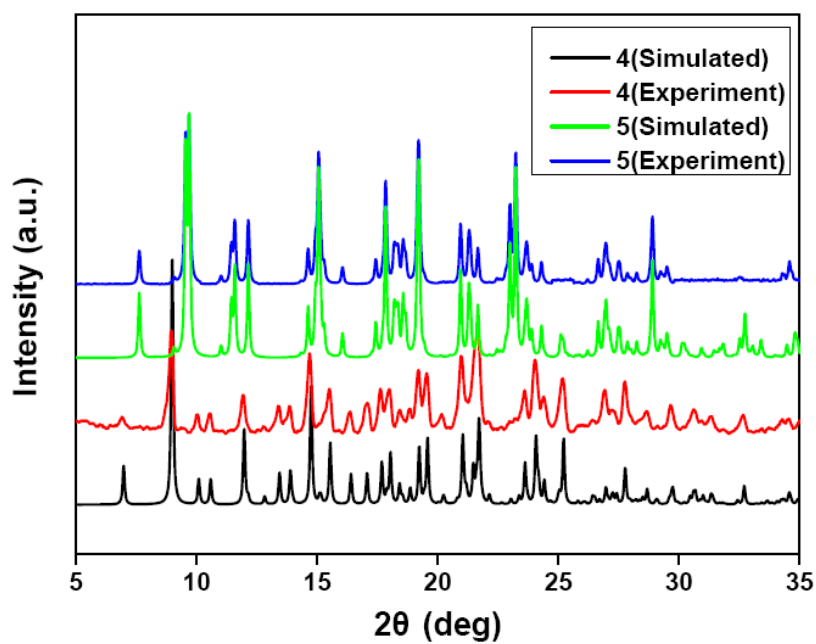
Lei-Lei Liu,^{*a} Cai-Xia Yu,^a Feng-Ji Ma,^a Ya-Ru Li,^a Jing-Jing Han,^a Lu Lin^a and Lu-Fang Ma^{*b}

^a *College of Chemistry and Chemical Engineering, Anyang Normal University, Anyang 455000, Henan, P. R. China*

^b *College of Chemistry and Chemical Engineering, Luoyang Normal University, Luoyang 471022, Henan, P. R. China*



(a)



(b)

Figure S1. (a-b) Experimental and simulated PXRd patterns for 1–5.

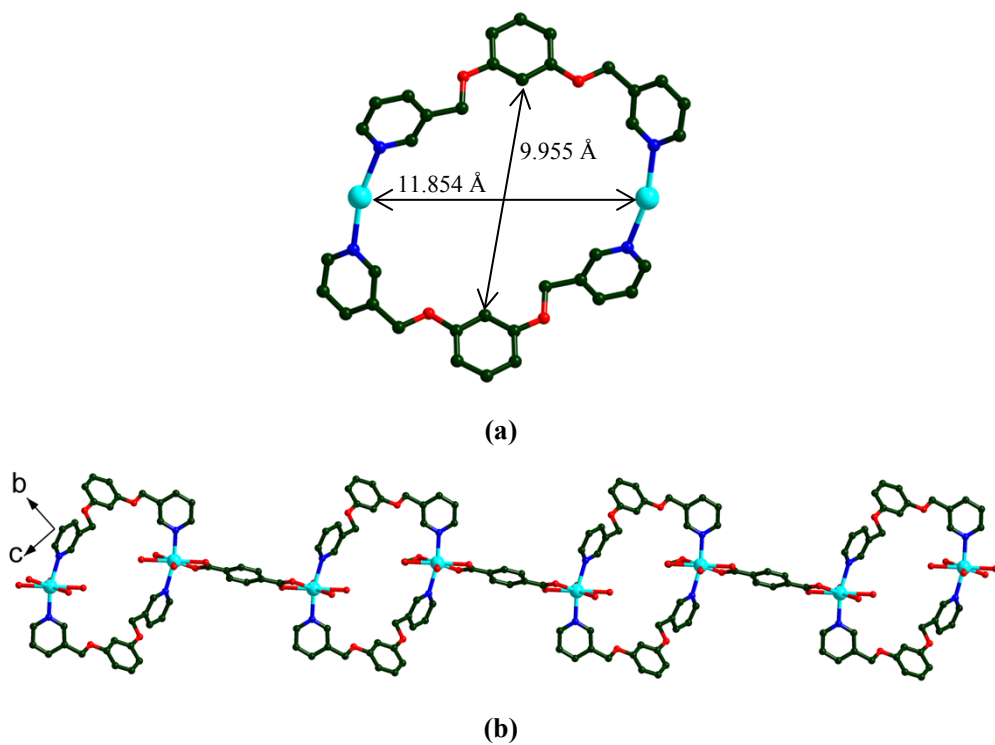


Figure S2. (a) View of the $[\text{Cd}_2(\text{bpmb})_2]$ 28-membered ring in **1**. (b) View of the 1D ringed ribbon-like chain in **1**.

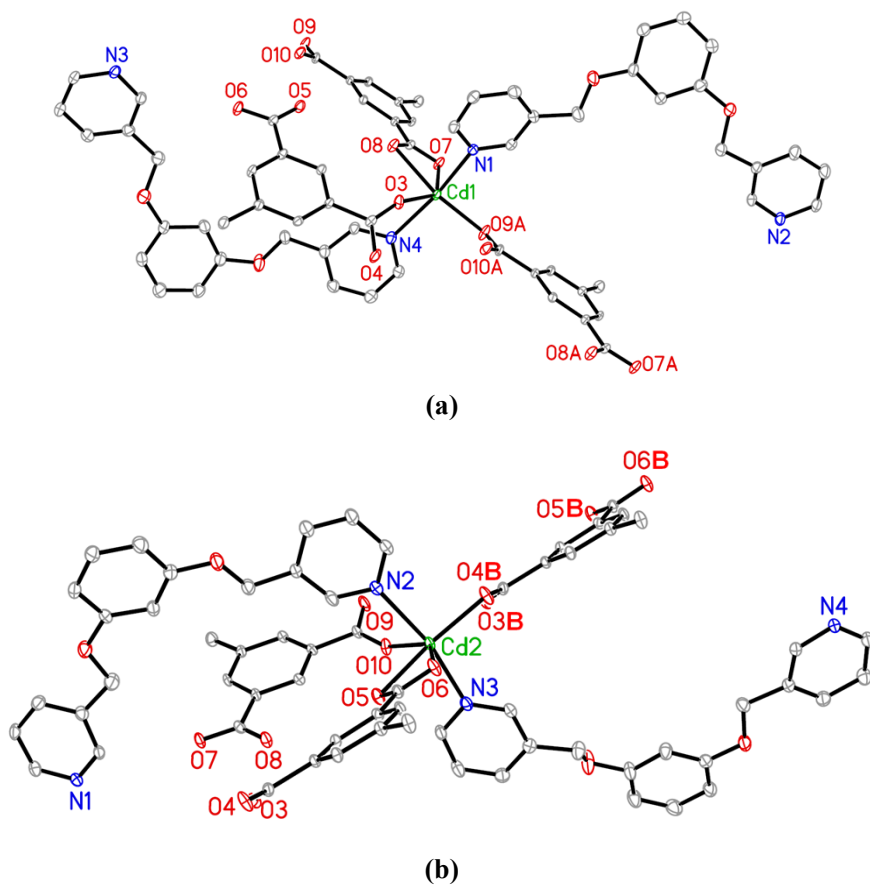


Figure S3. (a-b) View of the coordination environments of Cd center in **3** with labeling schemes. Symmetry codes: (A) $-1 + x, y, z$; (B) $1 + x, y, z$.

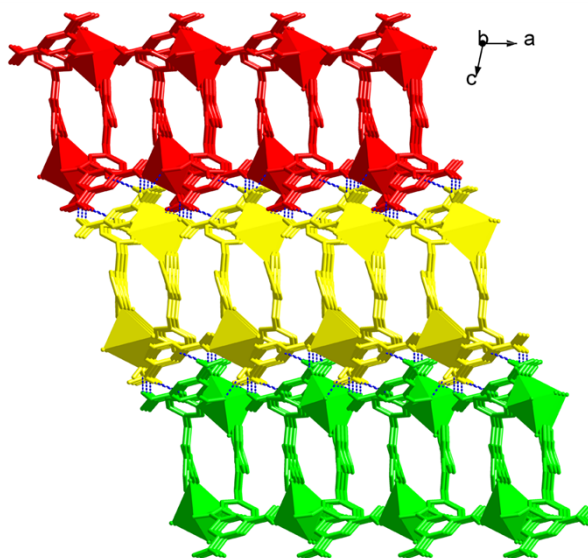


Figure S4. View of the 3D supramolecular network of **4**.

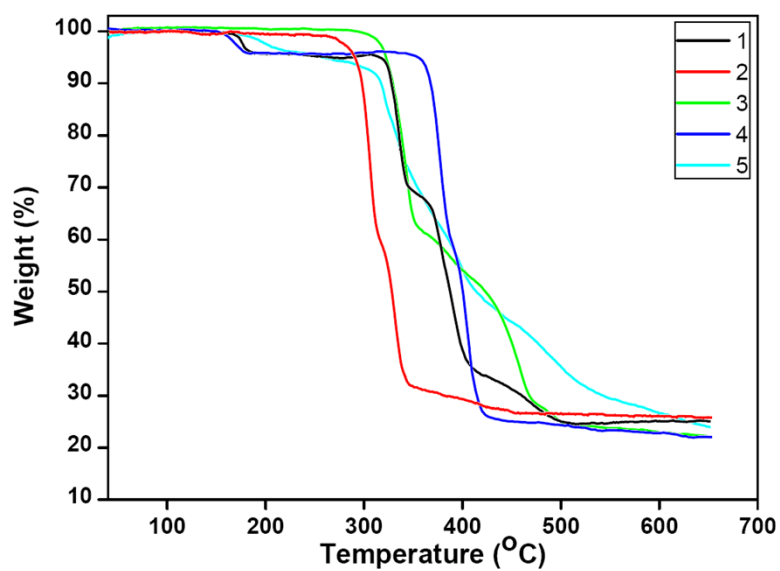


Figure S5. The TGA curves for **1-5**.

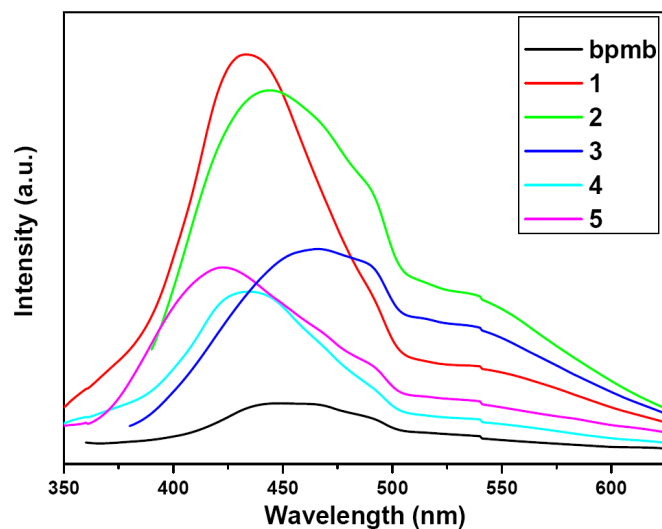


Figure S6. Emission spectra of bpmb and 1–5 in the solid state at ambient temperature.

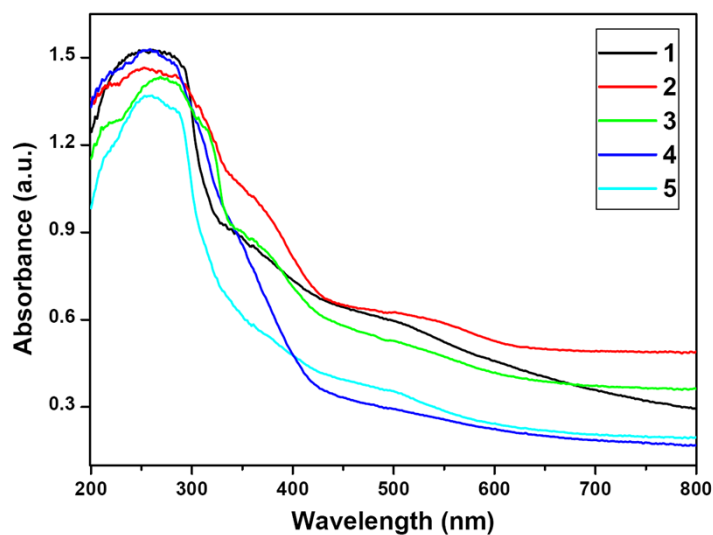


Figure S7. UV-vis adsorption spectra of 1–5 in the solid state at ambient temperature.

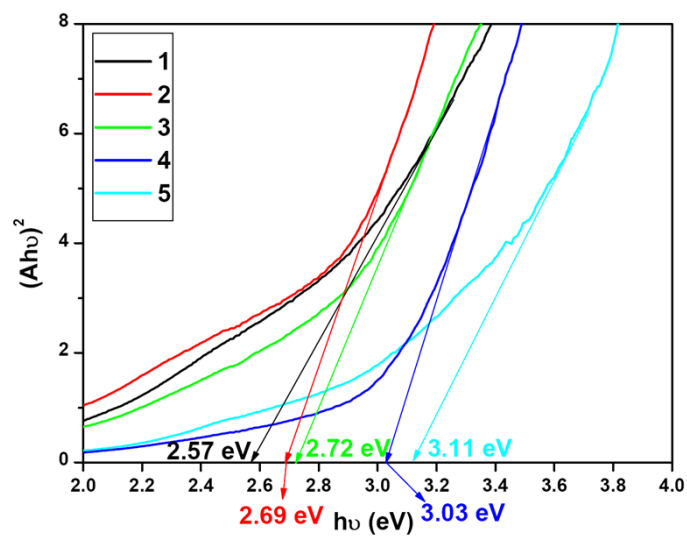


Figure S8. $(Ah\nu)^2$ - $h\nu$ curves of 1–5.