

Electronic supplementary information (ESI)

Solvent-dependent zinc(II) coordination polymers with mixed ligands: selective sorption and fluorescence sensing

Ji-Ai Hua, Yue Zhao, Yan-Shang Kang, Yi Lu and Wei-Yin Sun*

Coordination Chemistry Institute, State Key Laboratory of Coordination Chemistry, School of Chemistry and Chemical Engineering, Nanjing National Laboratory of Microstructures, Collaborative Innovation Center of Advanced Microstructures, Nanjing University, Nanjing 210093, China. E-mail: sunwy@nju.edu.cn; Fax: +86 25 83314502

Table S1 Hydrogen bonding data of **2**.

Complex 2				
D–H · · A	d(D–H) (Å)	d(H · · A) (Å)	d(D · · A)(Å)	D–H · · A (°)
O1W–H1WB · · O13#1	0.85	1.93	2.637(6)	140
O2W–H2WB · · O14#1	0.85	1.85	2.557(6)	139
O1W–H1WA · · O12#2	0.85	1.91	2.702(5)	155
C9–H9 · · O9#2	0.93	2.40	3.312(7)	166
O3W–H3WA · · O3#3	0.85	2.03	2.783(5)	148
C18–H18 · · O1W#4	0.93	2.58	3.483(7)	165
C27–H27 · · O11#5	0.93	2.53	3.448(7)	169
C30–H30 · · O10#5	0.93	2.44	3.303(7)	155
C28–H28 · · O8#6	0.93	2.54	3.166(7)	125
C37–H37 · · O16#7	0.93	2.55	3.334(13)	143

Symmetry codes: #1 2-x, -y, 2-z; #2 1+x, y, z; #3 -2+x, -1+y, z; #4 -1+x, y, z; #5 1-x, -y, 2-z; #6 1-x, -y, 1-z; #7 2-x, 1-y, 2-z.

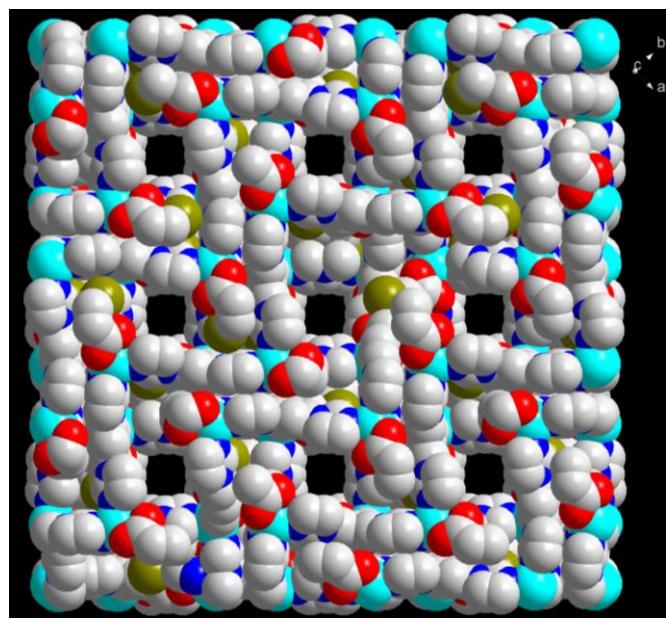


Fig. S1 Space-filling view of the crystal structure of **1** along the *c* axis.

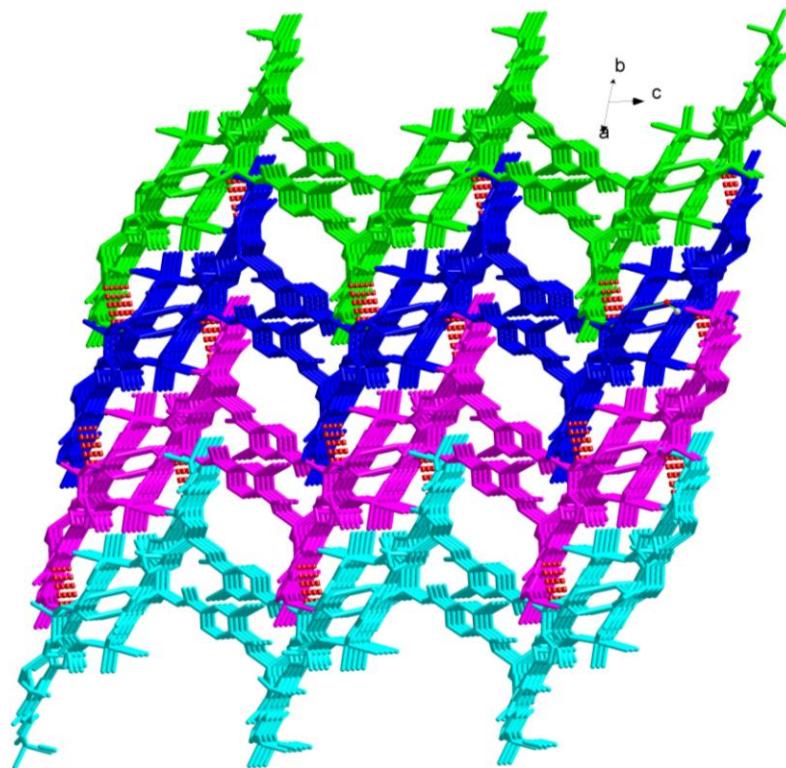
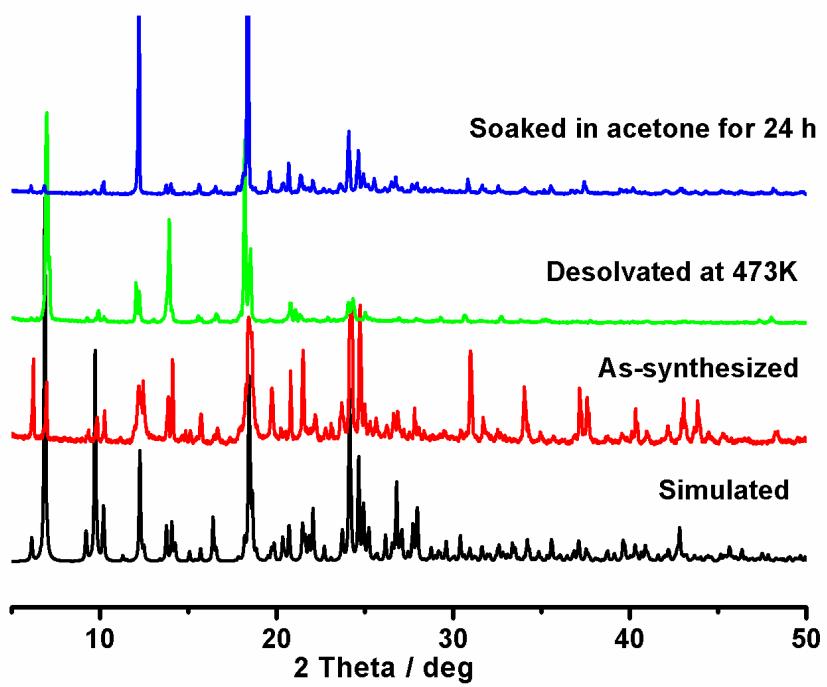
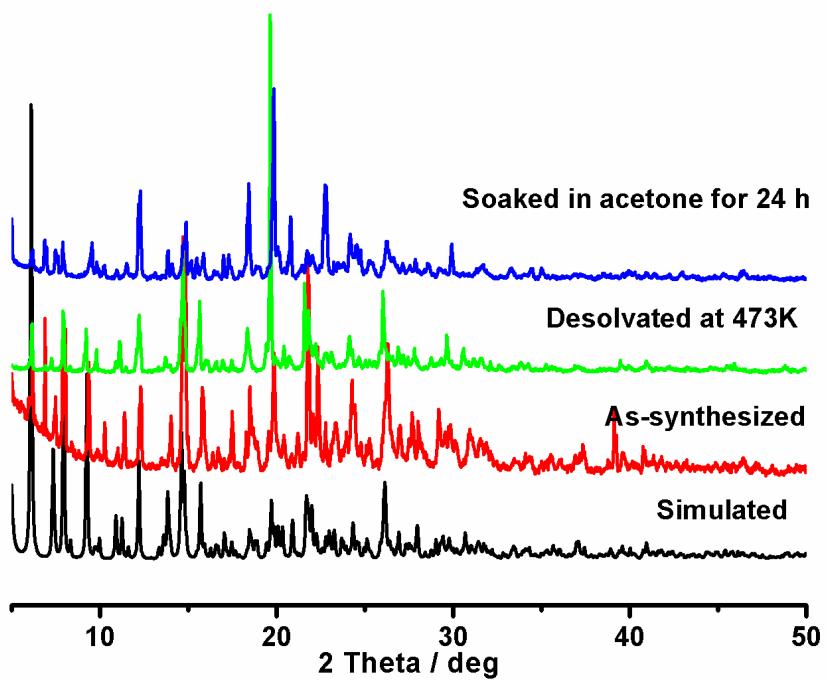


Fig. S2 3D supramolecular structure of **2** with 2D layers linked by hydrogen bonds: different color indicates the different layers. The hydrogen bonds are indicated by dashed lines.



(a)



(b)

Fig. S3 PXRD patterns of **1** (a) and **2** (b).

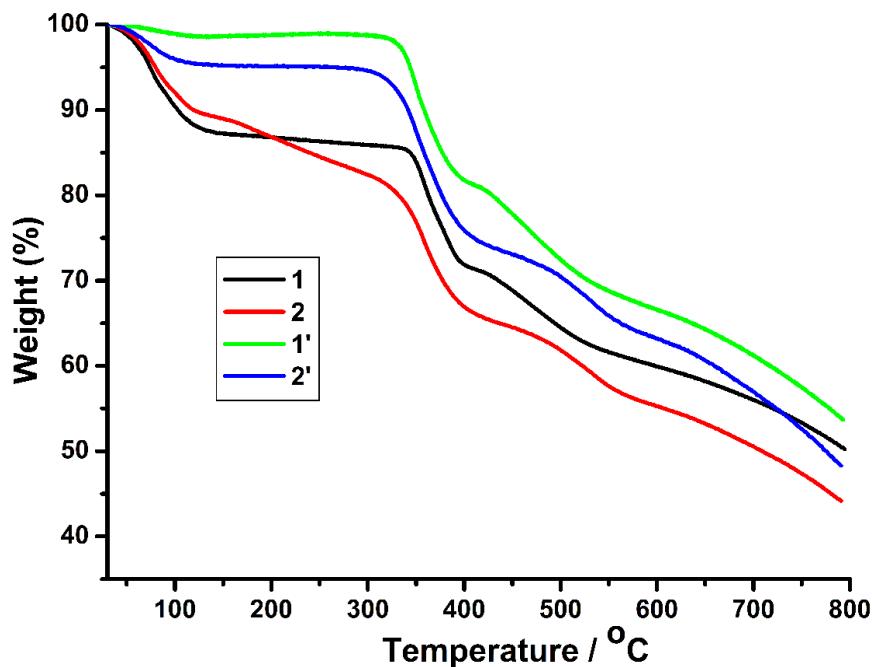


Fig. S4 TGA curves of **1** and **2** and desolvated samples **1'** and **2'**.

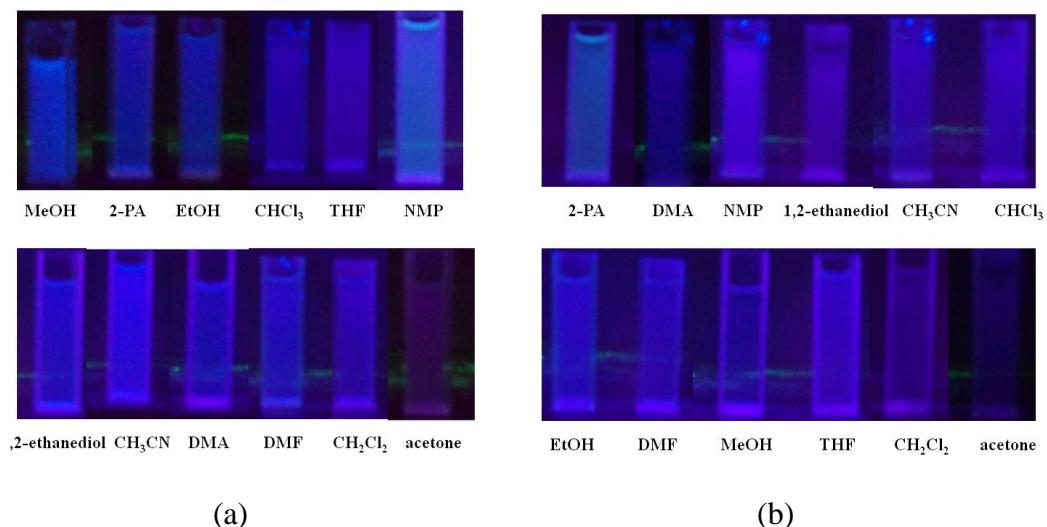


Fig. S5 Photographs of the samples of **1** (a) and **2** (b) showing the fluorescence under ultraviolet light.