

Supplementary Materials: Synthesis, Crystal Structure, and Properties of a Zn(II) Coordination Polymer Based on Difunctional Ligand Containing Triazolyl and Carboxyl Groups

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Table 1 Selected bond lengths (Å) and bond angles (°) for **1**.

Bond	<i>d</i>	Bond	<i>d</i>
Zn(1)-O(3)	1.931(2)	Zn(1)-O(1)	1.938(2)
Zn(1)-N(4) ⁱ	2.024(2)	Zn(1)-N(1) ⁱⁱ	2.042(2)
Angle	ω	Angle	ω
O(3)-Zn(1)-O(1)	124.08(10)	O(3)-Zn(1)-N(4) ⁱ	99.64(10)
O(1)-Zn(1)-N(4) ⁱ	115.46(10)	O(3)-Zn(1)-N(1) ⁱⁱ	107.54(10)
O(1)-Zn(1)-N(1) ⁱⁱ	102.33(10)	N(4) ⁱ -Zn(1)-N(1) ⁱⁱ	106.77(10)

Symmetry codes: (i) $-x+1/2, y-1/2, -z+3/2$; (ii) $-x+5/2, y+1/2, -z+3/2$.

Table 2. Hydrogen Bond Lengths (Å) and Bond Angles (°) for **1**.

D-H...A	<i>d</i> (D-H)	<i>d</i> (H...A)	<i>d</i> (D...A)	\angle DHA
C(1)-H(1)...O(2) ^a	0.9300	2.5700	3.424(4)	152.00
C(4)-H(4)...O(2)	0.9300	2.4800	2.794(4)	100.00
C(7)-H(7)...O(4) ^b	0.9300	2.3700	3.123(4)	138.00
C(11)-H(11)...O(4)	0.9300	2.5000	2.809(4)	100.00
C(14)-H(14)...O(4) ^c	0.9300	2.5400	3.432(4)	160.00
C(19)-H(19)...O(2) ^d	0.9300	2.3700	3.034(4)	128.00
C(20)-H(20)...O(4) ^e	0.9300	2.2700	3.125(4)	152.00

Symmetry codes: (a) $1+x, y, z$; (b) $5/2-x, -1/2+y, 3/2-z$; (c) $-1+x, y, z$; (d) $1/2-x, 1/2+y, 3/2-z$; (e) $1-x, 1-y, 1-z$.

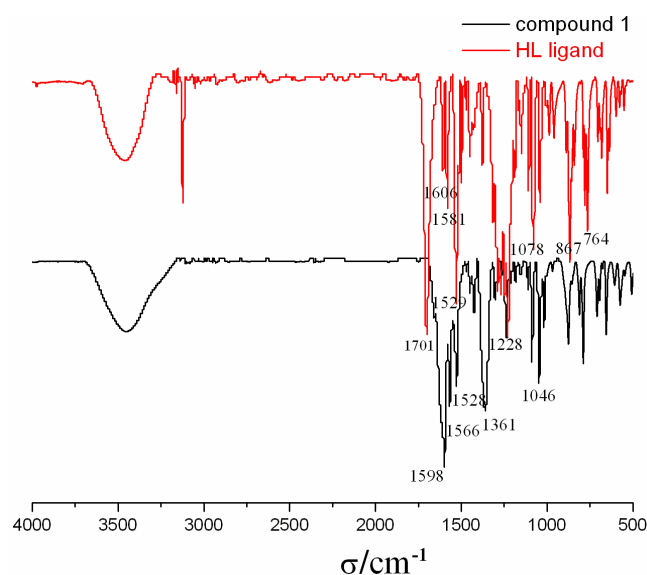


Figure S1. The IR spectra of HL ligand and CPs **1**.

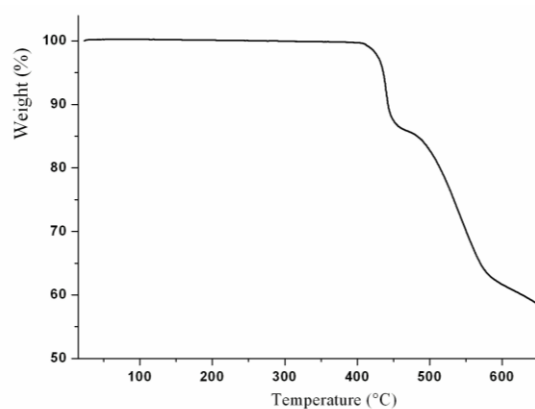


Figure S2. TGA plots of 1.

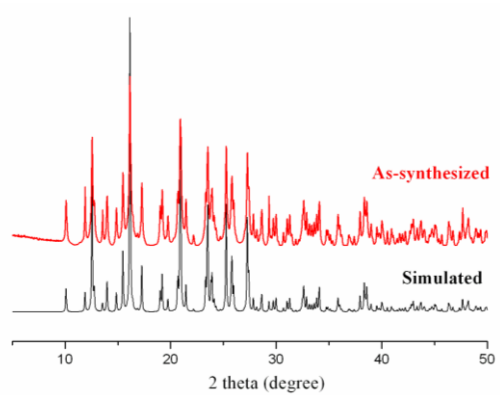


Figure S3. The X-ray powder diffraction pattern of 1.