

Supplementary material

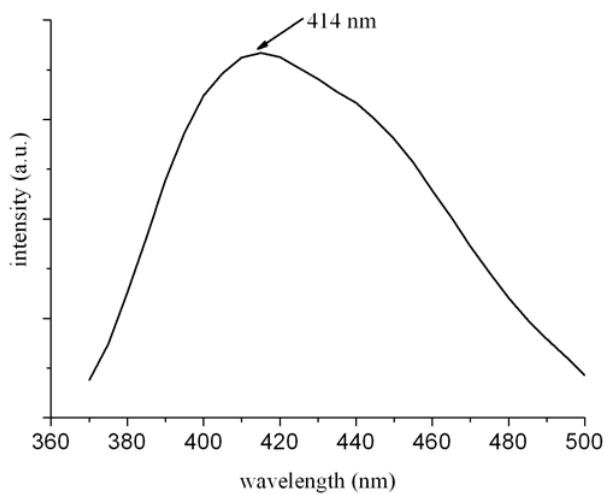


Fig. S1. Fluorescence emission spectrum of **1** in the solid state at room temperature.

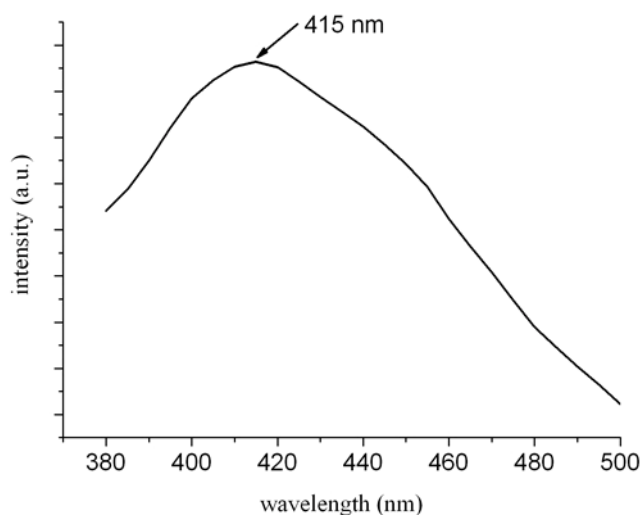


Fig. S2. Fluorescence emission spectrum of L ligand at room temperature.

Photoluminescent measurement of the L ligand was carried out at room temperature. As shown in Fig S2, L ligand exhibits photoluminescence emission at 415 nm ($\lambda_{\text{ex}} = 350$ nm), which confirmed the emission of compound **1** is assigned to an intraligand transition (π - π^*) of the L ligand.

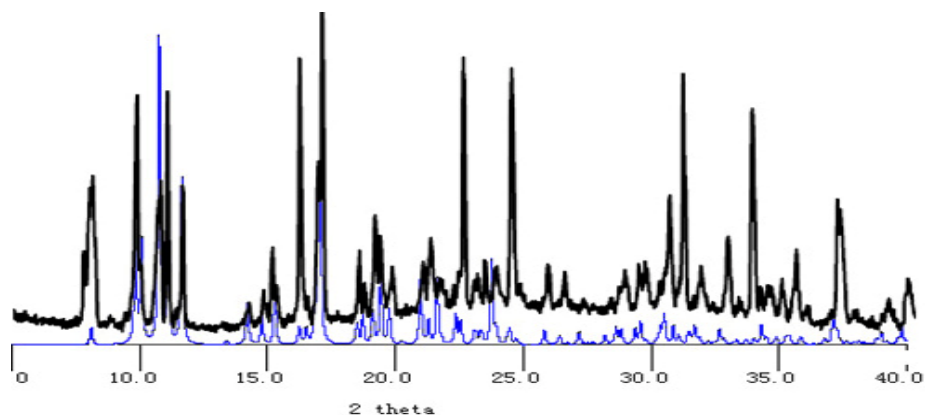


Fig. S3. The measured (black) and simulated (blue) XRPD patterns for **1**.

To check the bulk purity, XRPD of compound **1** was recorded in a D/Max 2500 X-ray powdered diffractometer. As shown in Fig. S3, recorded and simulated XRPD patterns in **1** are quite similar, confirming the bulk purity of the compound.

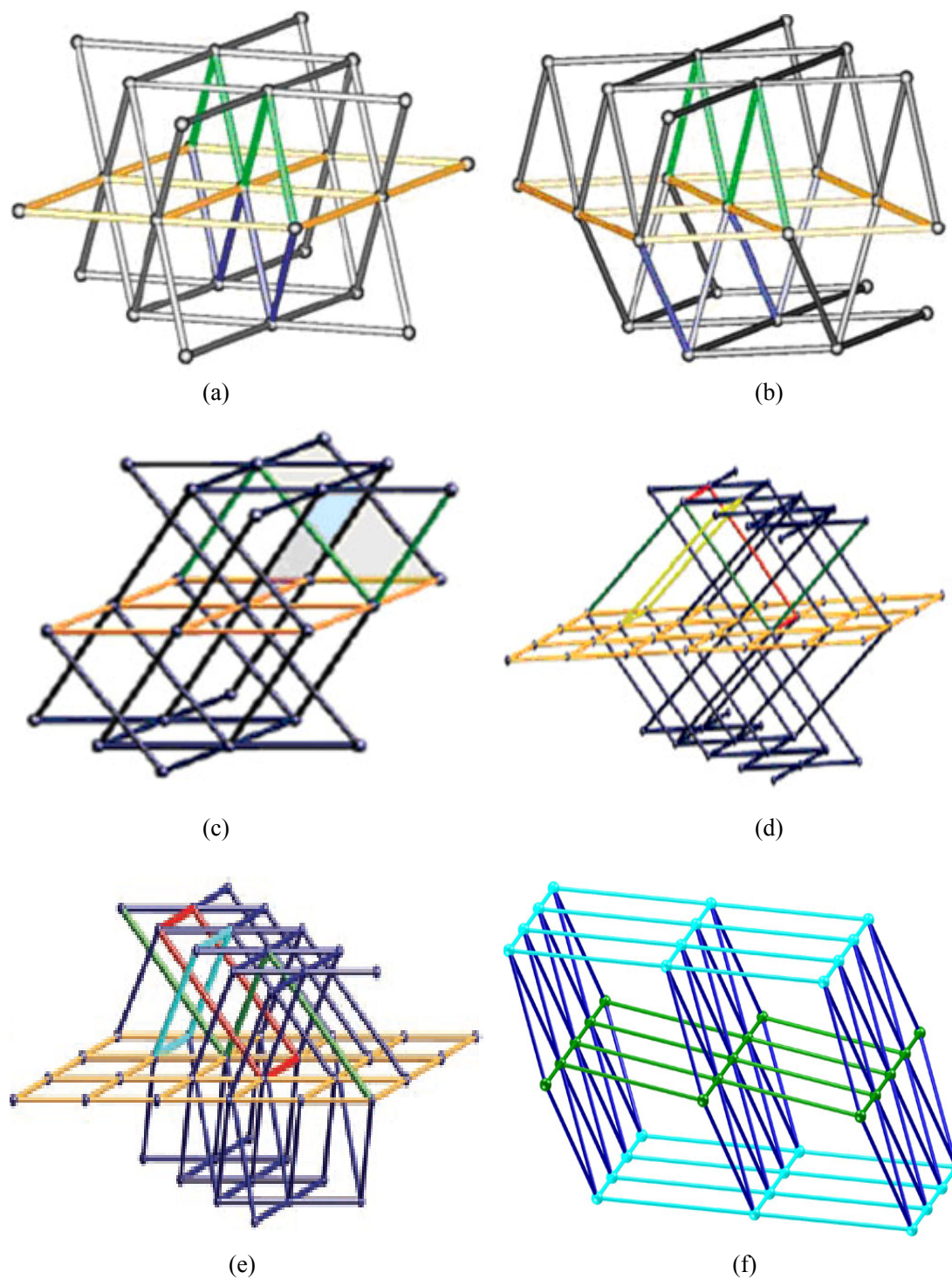


Fig. S4. Schematic description of the 8-connected topological nets of **bcu** (a) compound **I** (b) compound **II** (c) compound **III** (d) compound **IV** (e) compound **V**.

Table S1 Selected Bond Lengths (Å) and Angles (°) for Compound **1**^a.

1			
Zn(1)-O(6)#1	1.9632(16)	Zn(2)-O(7)#2	2.0212(15)
Zn(2)-O(7)#1	2.0212(15)	Zn(2)-O(5)#3	2.0813(16)
Zn(2)-O(3)#3	2.2147(15)		
O(4)-Zn(1)-O(6)#1	112.91(8)	O(4)-Zn(1)-N(1)	102.59(8)
O(6)#1-Zn(1)-N(1)	101.25(8)	O(4)-Zn(1)-O(3)	112.14(7)
O(6)#1-Zn(1)-O(3)	101.52(7)	N(1)-Zn(1)-O(3)	126.05(8)
O(7)#2-Zn(2)-O(7)#1	180.00(10)	O(7)#2-Zn(2)-O(5)	84.22(7)
O(7)#1-Zn(2)-O(5)	95.78(7)	O(7)#1-Zn(2)-O(3)#3	88.59(6)
O(5)-Zn(2)-O(5)#3	180.0	O(7)#2-Zn(2)-O(3)#3	91.41(6)
O(5)-Zn(2)-O(3)#3	89.05(6)	O(5)#3-Zn(2)-O(3)#3	90.95(6)
O(3)#3-Zn(2)-O(3)	180.00(5)		
a: Symmetry transformations used to generate equivalent atoms: #1 x,-y+1,z-1/2; #2 -x+1/2,y-1/2,-z+1/2; #3 -x+1/2,-y+1/2,-z.			