

Syntheses, Structures and Luminescent Properties of Zinc(II) Coordination Polymers Based on Bis(imidazole) and Dicarboxylate

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Table S1. Selected bond lengths (Å) and angles (°) for 1-5

1			
Zn(1)-O(1)	1.9169(13)	Zn(1)-N(4)#2	2.0188(15)
Zn(1)-O(3)#1	1.9261(12)	Zn(1)-N(1)	2.0254(15)
O(1)-Zn(1)-O(3)#1	119.57(7)	O(1)-Zn(1)-N(1)	110.73(6)
O(1)-Zn(1)-N(4)#2	109.56(6)	O(3)#1-Zn(1)-N(1)	103.21(6)
O(3)#1-Zn(1)-N(4)#2	112.44(6)	N(4)#2-Zn(1)-N(1)	99.20(6)
2			
Zn(1)-O(4)#1	1.9326(16)	Zn(1)-N(4)#2	1.999(2)
Zn(1)-O(1)	1.9434(16)	Zn(1)-N(1)	2.003(2)
O(4)#1-Zn(1)-O(1)	113.14(7)	O(4)#1-Zn(1)-N(1)	97.31(8)
O(4)#1-Zn(1)-N(4)#2	112.73(8)	O(1)-Zn(1)-N(1)	116.14(8)
O(1)-Zn(1)-N(4)#2	107.60(8)	N(4)#2-Zn(1)-N(1)	109.79(9)
3			
Zn(1)-O(2)	1.946(2)	Zn(1)-N(6)#2	2.008(3)
Zn(1)-O(4)#1	1.953(2)	Zn(1)-N(1)	2.014(3)
O(2)-Zn(1)-O(4)#1	115.70(11)	O(2)-Zn(1)-N(1)	114.52(12)
O(2)-Zn(1)-N(6)#2	95.77(11)	O(4)#1-Zn(1)-N(1)	106.34(11)
O(4)#1-Zn(1)-N(6)#2	115.52(12)	N(6)#2-Zn(1)-N(1)	108.89(12)
4			
Zn(1)-O(2)	1.964(2)	Zn(1)-N(1)	1.997(2)
Zn(1)-O(4)#1	1.979(2)	Zn(1)-N(4)#2	2.022(2)
O(2)-Zn(1)-O(4)#1	100.86(9)	O(2)-Zn(1)-N(4)#2	106.80(9)
O(2)-Zn(1)-N(1)	112.61(10)	O(4)#1-Zn(1)-N(4)#2	113.16(9)
O(4)#1-Zn(1)-N(1)	109.97(9)	N(1)-Zn(1)-N(4)#2	112.83(10)
5			
Zn(1)-O(4)#1	1.9837(13)	Zn(1)-O(1)	2.009(14)
Zn(1)-N(1)	1.9982(17)	Zn(1)-N(3)	2.0174(17)
O(4)#1-Zn(1)-N(1)	102.00(6)	O(4)#1-Zn(1)-N(3)	117.43(7)
O(4)#1-Zn(1)-O(1)	98.90(6)	N(1)-Zn(1)-N(3)	115.66(7)
N(1)-Zn(1)-O(1)	112.32(6)	O(1)-Zn(1)-N(3)	109.28(7)

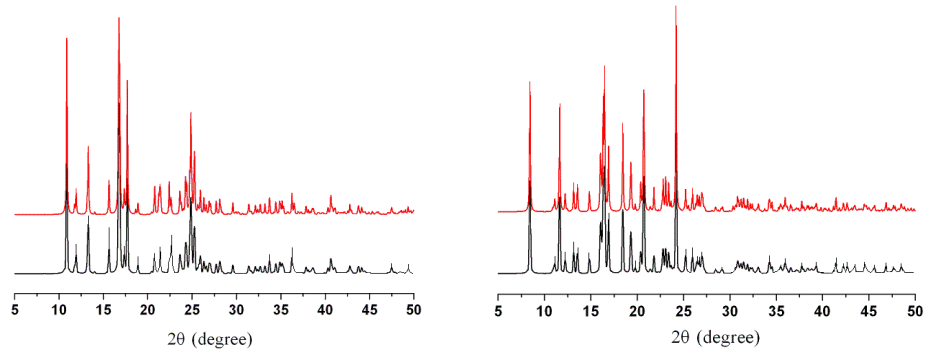
Symmetry transformations used to generate equivalent atoms:

For **1**, #1 x-1,y,z #2 -x+1/2,y+1/2,-z+1/2 ;

For **2**, #1 x,-y+5/2,z+1/2 #2 -x+1,y+1/2,-z+1/2 ;

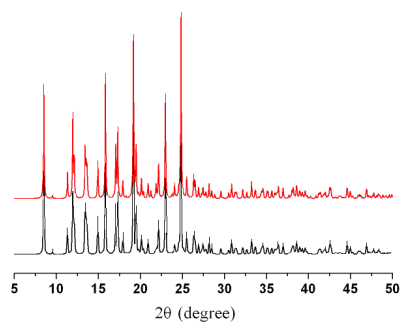
For **3**, #1 x+1,y,z #2 x,-y+1/2,z+1/2 ;

For **4**, #1 x,y+1,z #2 x,y-1,z ; For **5**, #1 x,y+1,z.



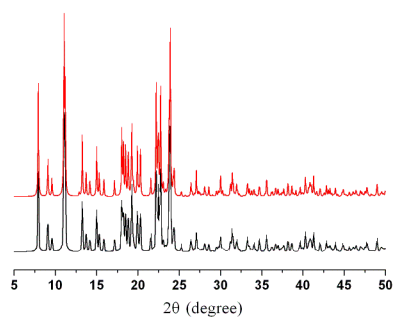
(a)

(b)



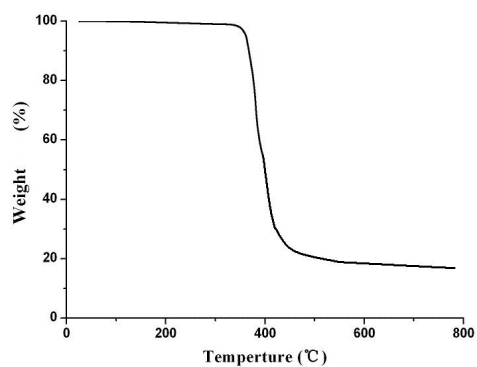
(c)

(d)

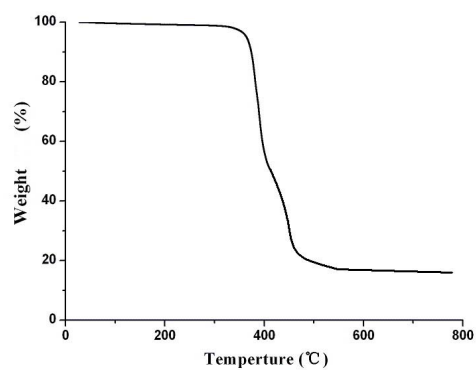


(e)

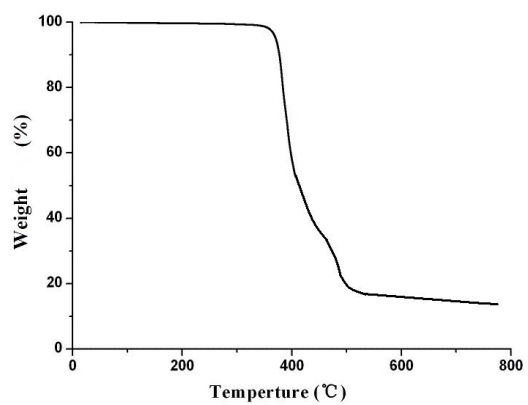
Figure S1. Simulated (black) and experimental (red) XRPD patterns of 1-5.



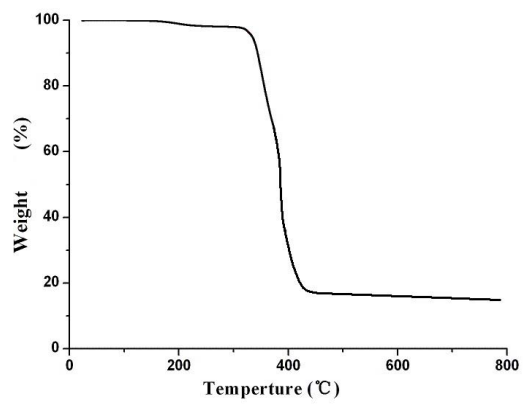
(1)



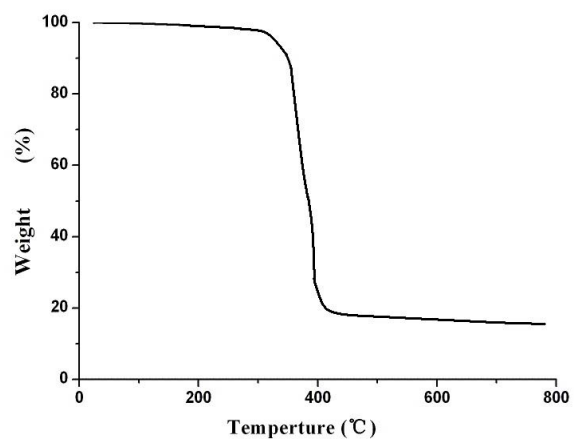
(2)



(3)



(4)



(5)

Figure S2. The TGA of 1-5 in solid state.