

**Syntheses, Structures, and Photoluminescence of Zinc(II)
Coordination Polymers Based on 5-methoxyisophthalate and
Flexible N-donor ancillary Ligands**

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

Zn(1)-O(3)#1	1.9629(14)	Zn(1)-O(1)	1.9903(15)□
Zn(1)-N(1)	1.9949(17)	Zn(1)-O(4)#2	2.0419(14)
O(3)#1-Zn(1)-N(1)	125.80(7)	O(1)-Zn(1)-N(1)	119.29(7)
O(3)#1-Zn(1)-O(4)#2	104.65(6)	O(1)-Zn(1)-O(4)#2	96.93(6)
N(1)-Zn(1)-O(4)#2	97.70(7)	O(3)#1-Zn(1)-O(2)	90.16(6)
O(1)-Zn(1)-O(2)	58.01(5)	N(1)-Zn(1)-O(2)	90.30(6)

Symmetry transformations used to generate equivalent atoms: #1 $-x + 1, -y + 1, -z + 1$; #2 $x, y, z + 1$.

Table S2. Selected bond lengths (Å) and angles (°) for 2

Zn(1)-O(1)	1.995(3)□	Zn(1)-O(4)#1	1.996(2)
Zn(1)-N(1)	2.020(3)	Zn(1)-N(3)	2.030(3)
O(1)-Zn(1)-O(4)#1	96.88(11)	O(1)-Zn(1)-N(1)	116.33(12)
O(4)#1-Zn(1)-N(1)	108.07(12)	O(1)-Zn(1)-N(3)	97.91(12)
O(4)#1-Zn(1)-N(3)	113.70(12)	N(1)-Zn(1)-N(3)	121.20(12)

Symmetry transformations used to generate equivalent atoms: #1 $x - 1, y, z$.

Table S3. Selected bond lengths (Å) and angles (°) for 3

Zn(1)-O(7)	1.989(7)	Zn(1)-N(4)	2.001(9)
Zn(1)-N(8)#1	1.998(8)	Zn(1)-O(9)#2	2.007(7)
Zn(2)-O(2)	1.970(6)	Zn(2)-N(1)	1.979(8)
Zn(2)-O(4)#3	1.988(7)	Zn(2)-N(5)	1.993(8)
O(7)-Zn(1)-N(4)	103.9(3)	O(7)-Zn(1)-N(8)#1	112.1(3)
N(4)-Zn(1)-N(8)#1	115.3(3)	O(7)-Zn(1)-O(9)#2	100.1(3)
N(4)-Zn(1)-O(9)#2	109.5(3)	N(8)#1-Zn(1)-O(9)#2	114.4(3)
O(2)-Zn(2)-N(1)	112.3(3)	O(2)-Zn(2)-O(4)#3	103.1(3)□
N(1)-Zn(2)-O(4)#3	110.8(3)□	O(2)-Zn(2)-N(5)	102.4(3)
N(1)-Zn(2)-N(5)	118.1(3)	O(4)#3-Zn(2)-N(5)	108.8(3)

Symmetry transformations used to generate equivalent atoms: #1 $x, y, z + 1$; #2 $x + 1, y, z$; #3 $x - 1, y, z$.

Table S4. Selected bond lengths (Å) and angles (°) for 4

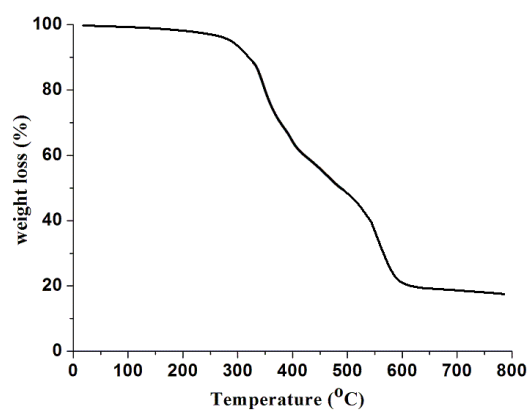
Zn(1)-O(2)	1.929(5)	Zn(1)-O(4)#1	1.939(5)
Zn(1)-N(1)	2.010(5)□	Zn(1)-N(3)#2	2.017(5)
O(2)-Zn(1)-O(4)#1	118.33(17)	O(2)-Zn(1)-N(1)	118.4(2)
O(4)#1-Zn(1)-N(1)	98.3(2)	O(2)-Zn(1)-N(3)#2	100.7(2)
O(4)#1-Zn(1)-N(3)#2	117.3(2)	N(1)-Zn(1)-N(3)#2	103.73(14)

Symmetry transformations used to generate equivalent atoms: #1 $-x + 1, -y + 1, z + 1/2$; #2 $-x - 1/2, y + 1/2, z + 1/2$.

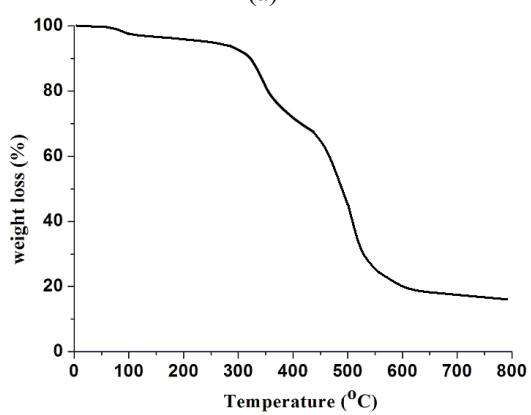
Table S5. Selected bond lengths (Å) and angles (°) for 5

Zn(1)-O(1)	1.9116(15)	Zn(1)-O(4)#1	1.9483(15)
Zn(1)-N(1)	1.9782(18)	Zn(1)-O(3)#2	1.9911(16)
O(1)-Zn(1)-O(4)#1	111.60(7)	O(1)-Zn(1)-N(1)	120.77(8)
O(4)#1-Zn(1)-N(1)	104.29(7)	O(1)-Zn(1)-O(3)#2	94.92(7)
O(4)#1-Zn(1)-O(3)#2	114.62(7)	N(1)-Zn(1)-O(3)#2	111.02(7)

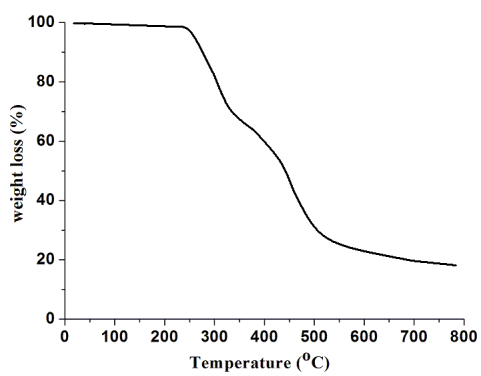
Symmetry transformations used to generate equivalent atoms: #1 $x, -y + 1, z - 1/2$; #2 $-x, -y + 1, -z + 1$.



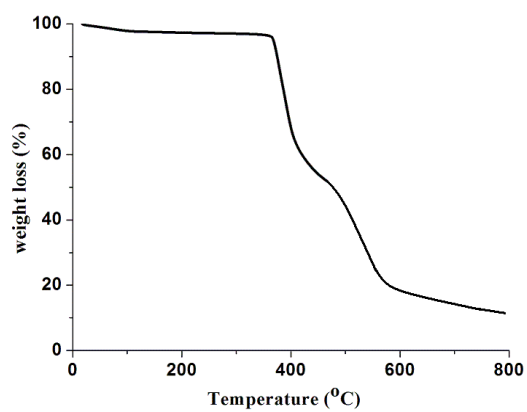
(a)



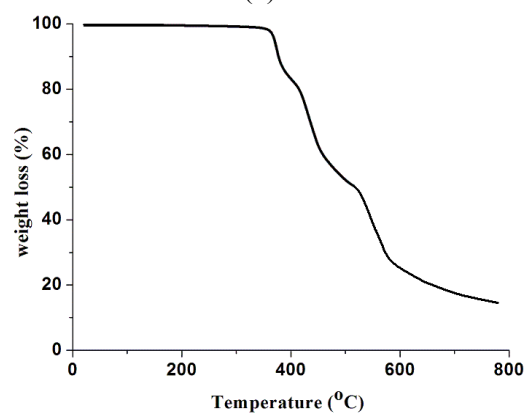
(b)



(c)



(d)



(e)

Figure S1. Thermogravimetric analysis (TGA) plots of (a) 1, (b) 2, (c) 3, (d) 4, and (e) 5.