

Table S1 Selected Bond Lengths (Å) and Bond Angles (deg) for Complexes **1** and **2**

Complex 1			
Cd(1)-N(2)	2.255(4)	Cd(1)-N(2A)	2.255(4)
Cd(1)-O(2B)	2.299(4)	Cd(1)-O(2C)	2.299(4)
Cd(1)-O(6D)	2.441(4)	Cd(1)-O(6E)	2.441(4)
Cd(2)-O(5F)	2.214(4)	Cd(2)-N(3)	2.220(4)
Cd(2)-O(1)	2.229(4)	Cd(2)-O(3G)	2.319(4)
Cd(2)-O(4G)	2.387(4)	Cd(2)-O(3)	2.520(3)
N(2)-Cd(1)-N(2A)	152.2(2)	N(2)-Cd(1)-O(2B)	103.45(15)
N(2A)-Cd(1)-O(2B)	98.73(15)	N(2)-Cd(1)-O(2C)	98.73(15)
N(2A)-Cd(1)-O(2C)	103.45(15)	O(2B)-Cd(1)-O(2C)	73.83(19)
N(2)-Cd(1)-O(6D)	80.22(14)	N(2A)-Cd(1)-O(6D)	85.69(15)
O(2B)-Cd(1)-O(6D)	157.56(13)	O(2C)-Cd(1)-O(6D)	83.73(13)
N(2)-Cd(1)-O(6E)	85.69(15)	N(2A)-Cd(1)-O(6E)	80.22(14)
O(2B)-Cd(1)-O(6E)	83.73(13)	O(2C)-Cd(1)-O(6E)	157.56(13)
O(6D)-Cd(1)-O(6E)	118.70(17)	O(5F)-Cd(2)-N(3)	110.40(15)
O(5F)-Cd(2)-O(1)	96.80(14)	N(3)-Cd(2)-O(1)	95.95(15)
O(5F)-Cd(2)-O(3G)	91.23(13)	N(3)-Cd(2)-O(3G)	146.38(16)
O(1)-Cd(2)-O(3G)	107.05(13)	O(5F)-Cd(2)-O(4G)	84.22(14)
N(3)-Cd(2)-O(4G)	99.93(15)	O(1)-Cd(2)-O(4G)	162.65(13)
O(3G)-Cd(2)-O(4G)	55.61(12)	O(5F)-Cd(2)-O(3)	161.39(13)
N(3)-Cd(2)-O(3)	87.10(14)	O(1)-Cd(2)-O(3)	74.37(12)
O(3G)-Cd(2)-O(3)	76.25(12)	O(4G)-Cd(2)-O(3)	99.39(13)
Complex 2			
Zn(1)-N(4A)	2.006(4)	Zn(2)-N(1)	2.015(3)
Zn(1)-N(8)	1.997(4)	Zn(2)-N(5)	2.016(3)
Zn(1)-O(7B)	1.993(3)	Zn(2)-O(4)	1.917(3)
Zn(1)-O(9C)	1.979(3)	Zn(2)-O(5)	1.960(3)
O(9C)-Zn(1)-O(7B)	100.48(12)	O(9C)-Zn(1)-N(8)	110.71(14)
O(7B)-Zn(1)-N(8)	112.15(14)	O(9C)-Zn(1)-N(4A)	107.04(14)
O(7B)-Zn(1)-N(4A)	107.50(13)	N(8)-Zn(1)-N(4A)	117.50(14)
O(4)-Zn(2)-O(5)	102.88(13)	O(4)-Zn(2)-N(1)	112.75(13)
O(5)-Zn(2)-N(1)	102.66(13)	O(4)-Zn(2)-N(5)	112.74(13)
O(5)-Zn(2)-N(5)	121.99(13)	N(1)-Zn(2)-N(5)	103.60(14)

Symmetry codes: **(1)** A: -x, y, -z+1/2; B: x-1/2, y+1/2, z; C: -x+1/2, y+1/2, -z+1/2; D: -x+1/2, y-1/2, -z+1/2; E: x-1/2, y-1/2, z; F: x, y-1, z; G: -x+3/2, -y+3/2, -z+1; H: x+1/2, y-1/2, z; I: x, y+1, z; J: x+1/2, y+1/2, z; **(2)** A: -x+2, -y+1, -z+1; B: -x+1, -y+1, -z; C: -x, -y+1, -z

XRD data:

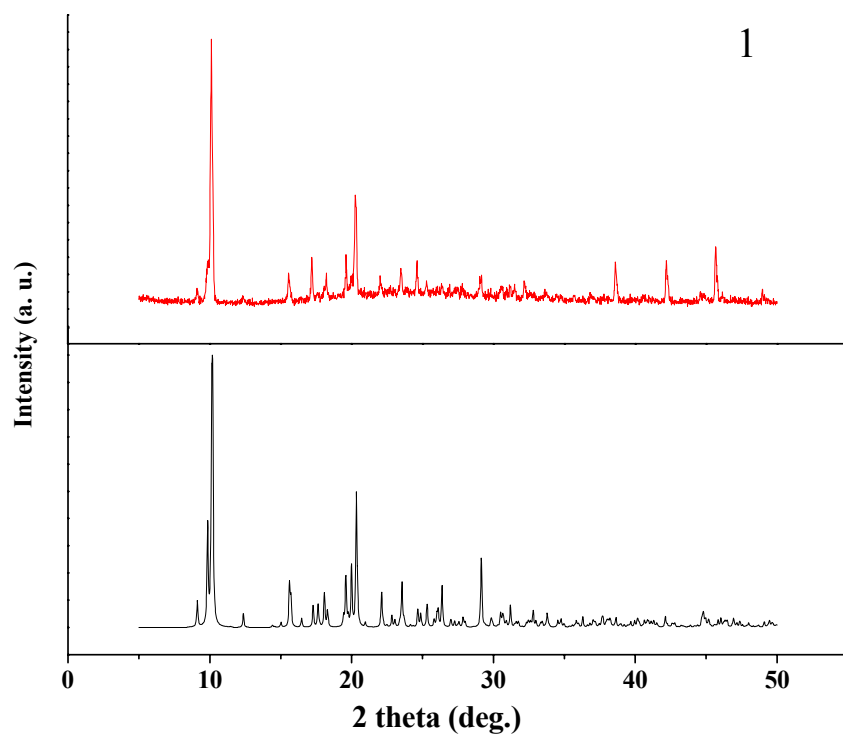


Figure S1. Simulated (black) and experimental (red) XRD spectra for **1**

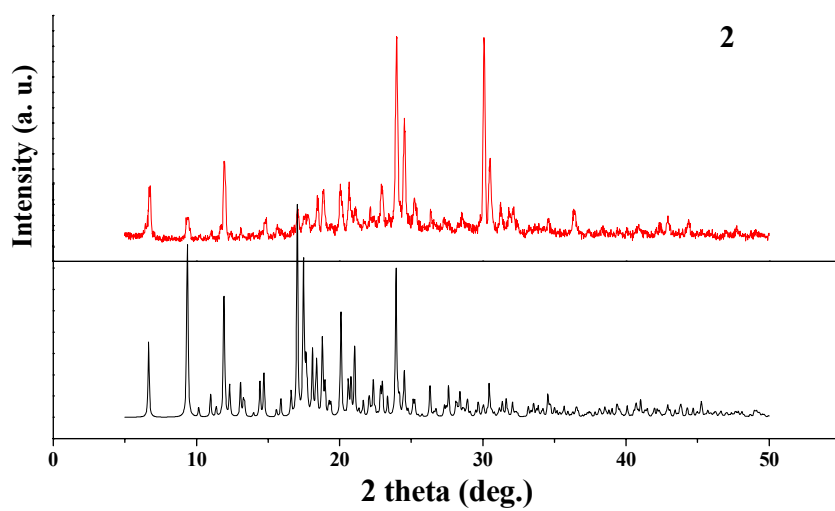


Figure S2. Simulated (black) and experimental (red) XRD spectra for **2**