

Supplementary information

Divalent metal coordination polymers assembled from dual linkers — semirigid carboxyphenylpropionate and dipyridyl type molecule

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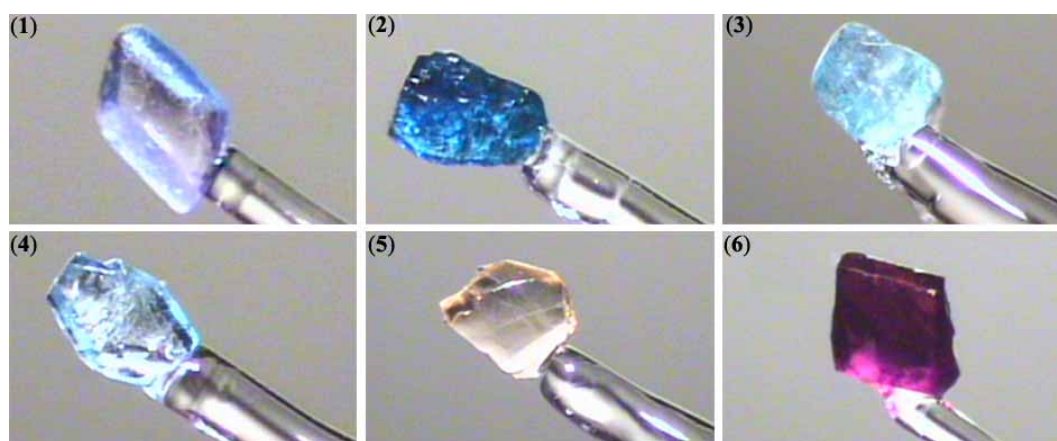


Fig. S1 The crystal photos of complexes 1-6.

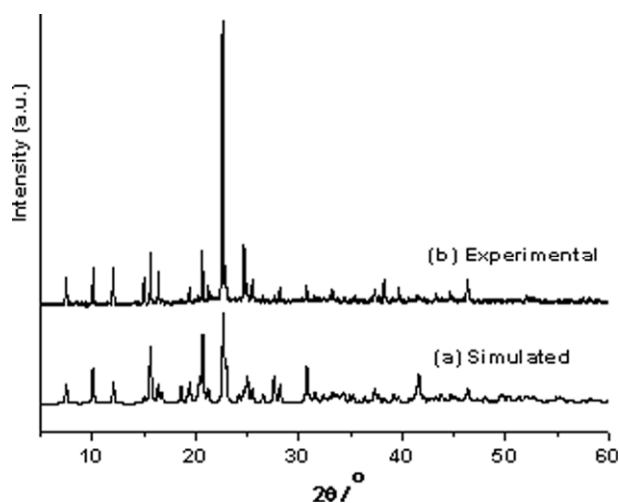


Fig. S2 The experimental and simulated PXRD patterns for complex 1.

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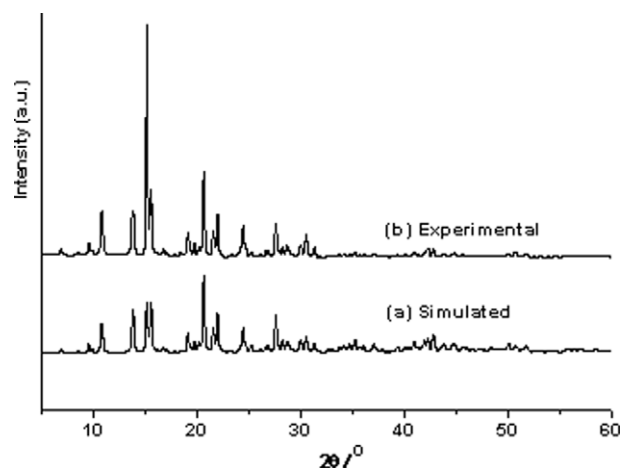


Fig. S3 The experimental and simulated PXRD patterns for complex 2.

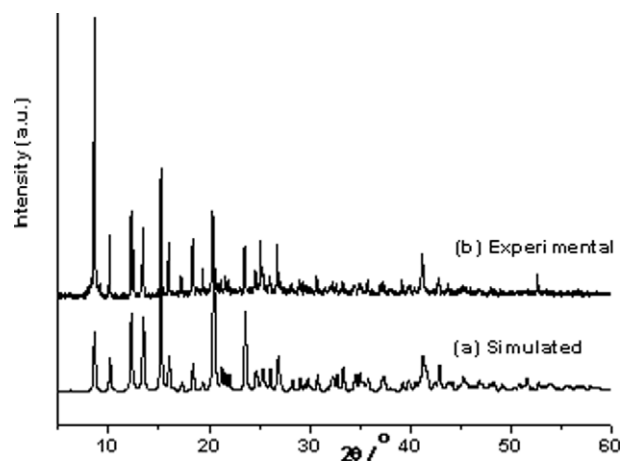


Fig. S4 The experimental and simulated PXRD patterns for complex 3.

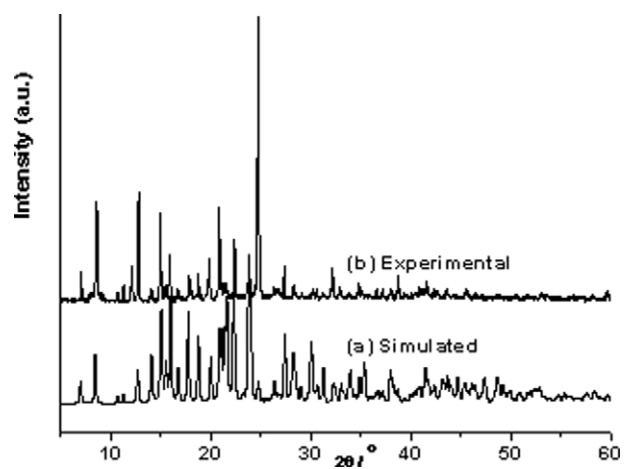


Fig. S5 The experimental and simulated PXRD patterns for complex 4.

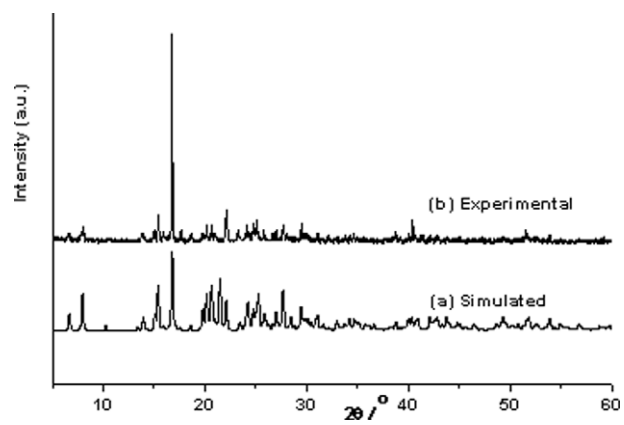


Fig. S6 The experimental and simulated PXR D patterns for complex 5.

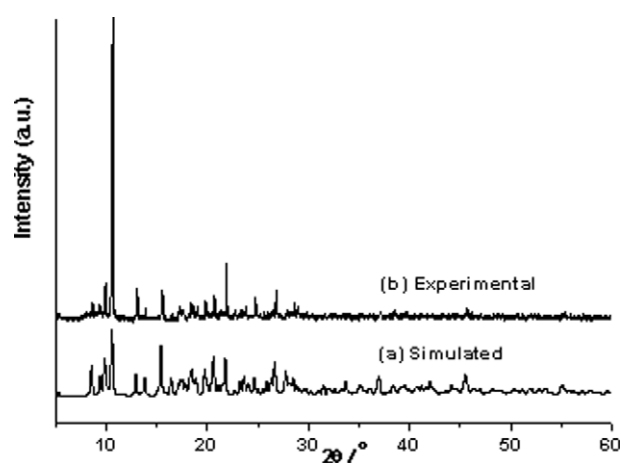


Fig. S7 The experimental and simulated PXR D patterns for complex 6.

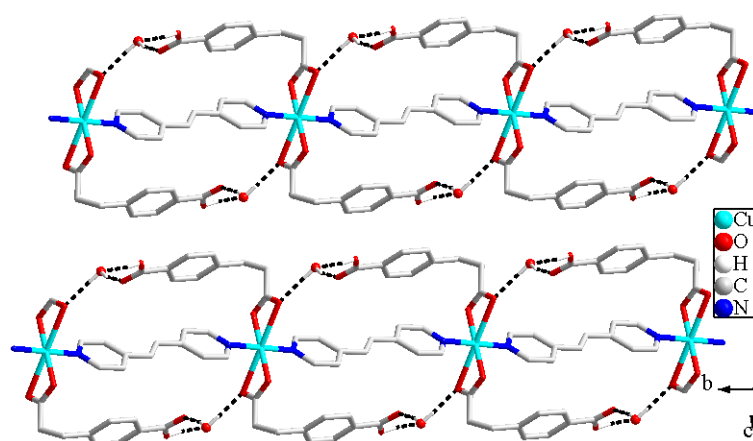


Fig. S8 View of 3D packing for complex 1.

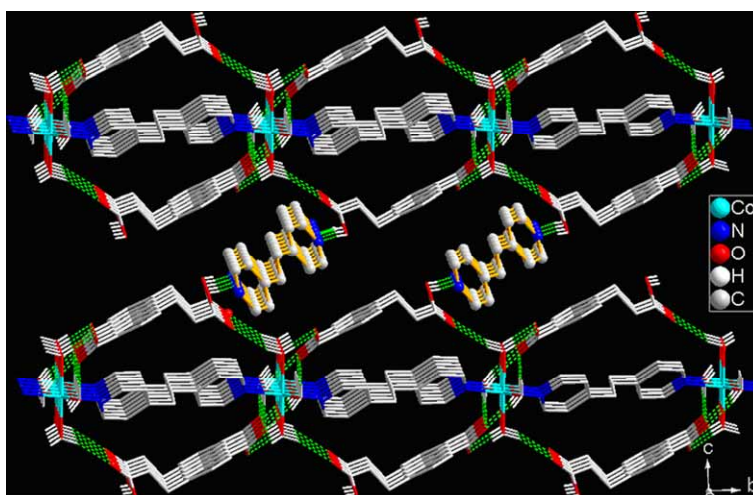


Fig. S9 View of 3D packing for complex **5**.

Table S1 The details of hydrogen bonds in **2**^a

D-H...A	d(D-H)	d(H...A)	d(D...A)	∠(DHA)
O(9)-H(1W)...O(4)	0.85	2.03	2.830(5)	156.2
O(9)-H(2W)...O(11)#7	0.85	2.15	2.910(7)	148.2
O(10)-H(3W)...O(6)#5	0.85	2.18	2.976(5)	155.8
O(10)-H(4W)...O(12)#4	0.85	2.12	2.971(7)	179.5
O(11)-H(5W)...O(1)	0.85	2.10	2.855(4)	147.2
O(11)-H(6W)...O(10)#1	0.85	2.15	2.970(7)	160.8
O(12)-H(7W)...O(7)#5	0.85	2.19	2.955(5)	149.4
O(12)-H(8W)...O(5)#8	0.85	2.06	2.902(5)	172.6
O(13)-H(9W)...O(6)#8	0.85	2.15	2.904(4)	147.6
O(13)-H(10W)...O(7)#9	0.85	1.94	2.770(4)	166.2

^a Symmetry transformations used to generate equivalent atoms: #1 $x+1/2, y-1/2, z$; #2 $x-1/2, y-1/2, z$; #3 $x, y, z-1$; #4 $x+1/2, y+1/2, z$; #5 $x, y, z+1$; #6 $x-1/2, y+1/2, z$; #7 $x, -y, z-1/2$; #8 $x-1/2, -y+1/2, z+1/2$; #9 $x, -y, z+1/2$.