

Supporting information

Hydrothermal Synthesis and Characterization of A Series of Luminescent Ag(I) Coordination Polymers with Two New Multi-dentate Bis-(1,2,3-triazole) Ligands: Structural diversity, Polymorphism and Photo-luminescent sensing

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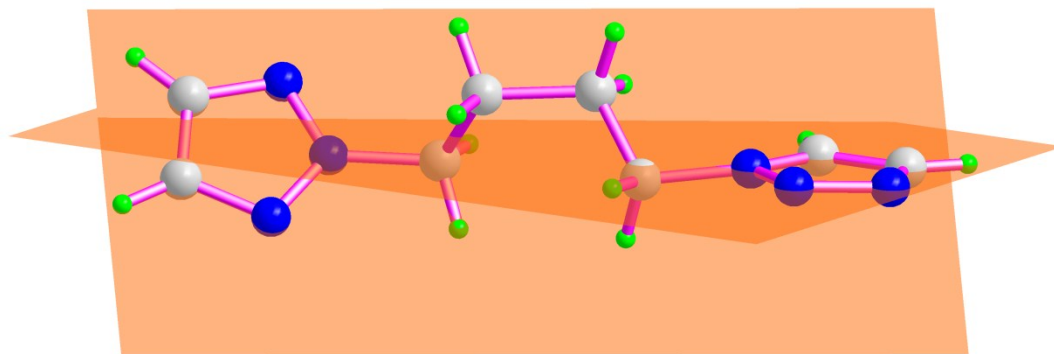
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Table S1 Selected hydrogen bonds lengths [Å] and angles [°] for **1-5**.

Donor-H...Acceptor	D-H	H...A	D...A	D-H...A
1				
C(4)-H(4B)...F(6)	0.97	2.48	3.358(4)	151
C(9)-H(9)...F(2)	0.93	2.44	3.335(4)	160
C(11)-H(11B)...F(1)	0.97	2.49	3.396(5)	156
C(14)-H(14B)...F(3)	0.97	2.45	3.391(5)	162
2				
C(1)-H(1)...F(2)	0.93	2.23	3.0797	152
C(3)-H(3B)...F(3)	0.97	2.43	3.3147	152
C(10)-H(10)...F(4)	0.93	2.45	3.3116	153
3				
C(1)-H(1)...F(3)	0.93	2.29	3.2107	171
C(2)-H(2)...F(4)	0.93	2.42	3.2892	155
C(3)-H(3B)...N(8)	0.97	2.50	3.4442	163
C(11)-H(11B)...F(4)	0.97	2.45	3.3617	157
4				
C(1)-H(1)...F(5)	0.93	2.41	3.3293	170
C(5)-H(5)...F(3)	0.93	2.37	3.2137	151
C(10)-H(10A)...F(2)	0.97	2.34	3.3082	174
C(10)-H(10B)...F(6)	0.97	2.45	3.3260	150
5				
C(3)-H(3A)...O(2)	0.97	2.52	3.4132	152

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Scheme S1 The flexible dihedral angles between two aromatic triazole moieties in L_1 indicating different spatial steric effect.

Table S2 The flexible dihedral angles between two aromatic triazole moieties in L_1 for **1-4**.

	Dihedral angles between two aromatic triazole moieties ($^\circ$)
1	19.6(9) and 41.5(4)
2	62.0(4)
3	43.30(5)
4	74.8(2)

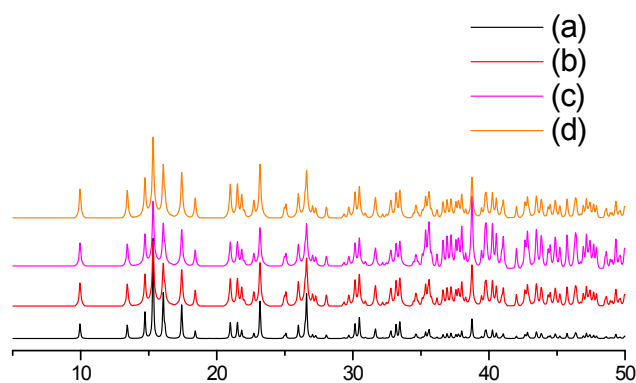


Fig. S1 PXRD patterns for (a) calculated on the basis of the structure determined by single-crystal X-ray diffraction of **5**. (b) X-ray diffractograms of as-synthesized **5**; (c) the samples of **5** immersed into the aqueous solutions for 24 h; (d) the samples of **5** immersed into dichromate (10^{-4} M) aqueous solutions for 24 h.