

Supporting Information

Juan Shi, Zhen-Xiang Xia, Sheng-Chun Chen*, Ming-Yang He, and Qun Chen

**Microwave synthesis of a blue luminescent silver(I) coordination
polymer with a rigid tris-triazole ligand**

DOI: 10.1515/znb-2020-0019. Received January 26, 2020; accepted March 15, 2020

***Corresponding author: Dr. Sheng-Chun Chen**, Jiangsu Key Laboratory of
Advanced Catalytic Materials and Technology, School of Petrochemical Engineering,
Changzhou University, Changzhou 213164, P. R. China; Fax: +8651986330251,
e-mail: cscctu@yahoo.com

Juan Shi, Zhen-Xiang Xia, Ming-Yang He, and Qun Chen: Jiangsu Key
Laboratory of Advanced Catalytic Materials and Technology, School of
Petrochemical Engineering, Changzhou University, Changzhou 213164, P. R. China

Table S1 The effect of reaction parameters on the yield of complex **1**.

Entry	Temperature (°C)	Irradiation time (min)	Microwave power (W)	Yield (%)
1	100	30	300	56
2	110	30	300	81
3	120	30	300	73
4	130	30	300	68
5	110	15	300	72
6	110	45	300	81
7	110	30	200	39
8	110	30	250	52
9	110	30	350	79

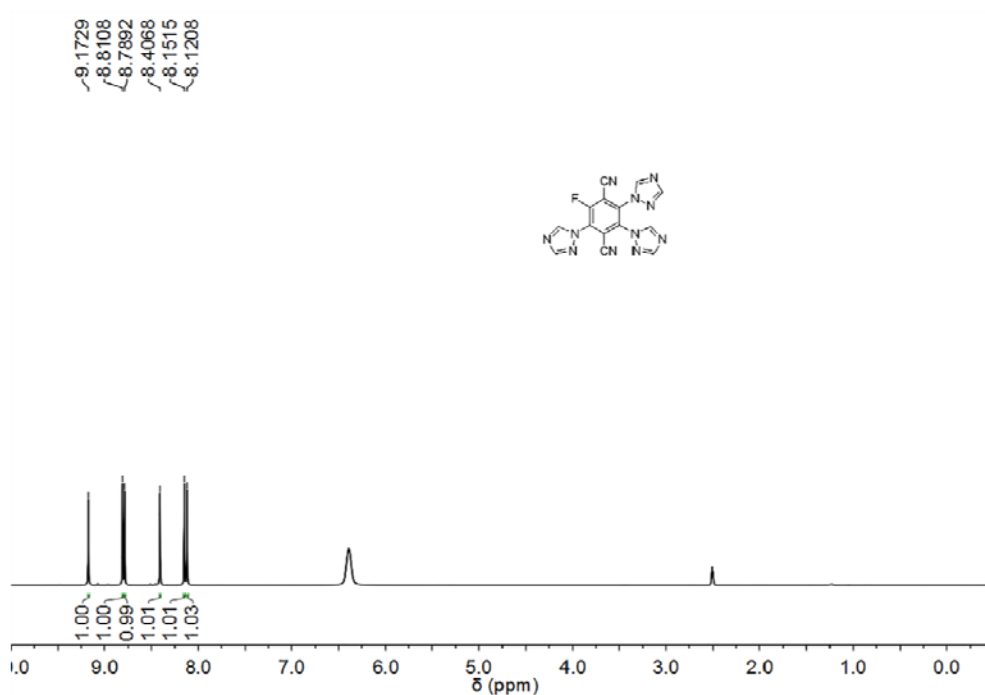


Fig. S1 ^1H NMR spectrum of 2-fluoro-3,5,6-tri(1H-1,2,4-triazol-1-yl)-terephthalonitrile (L^1).

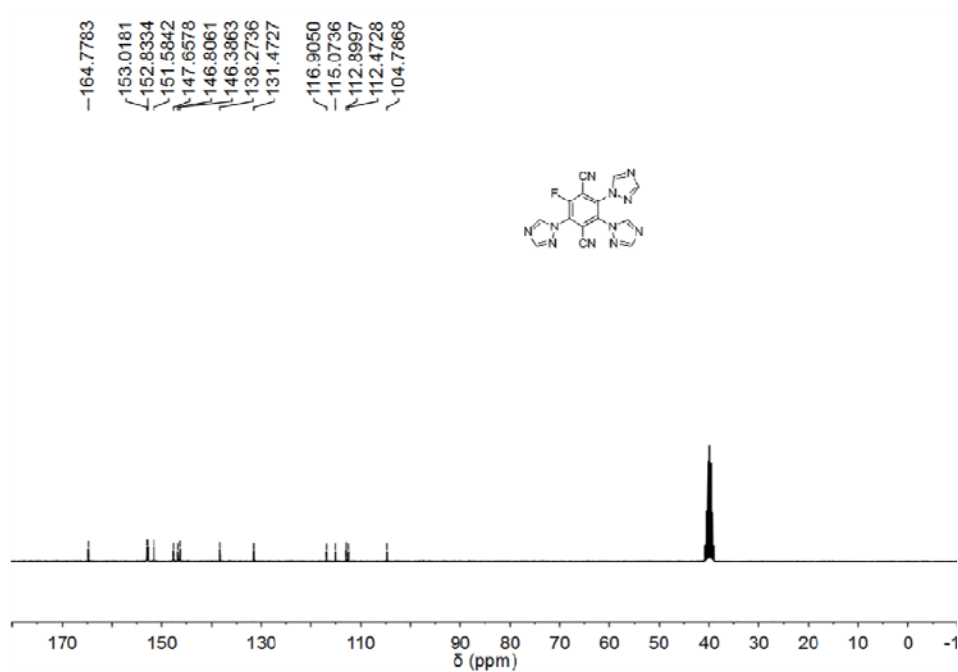


Fig. S2 ^{13}C NMR spectrum of 2-fluoro-3,5,6-tri(1H-1,2,4-triazol-1-yl)-terephthalonitrile (L^1).

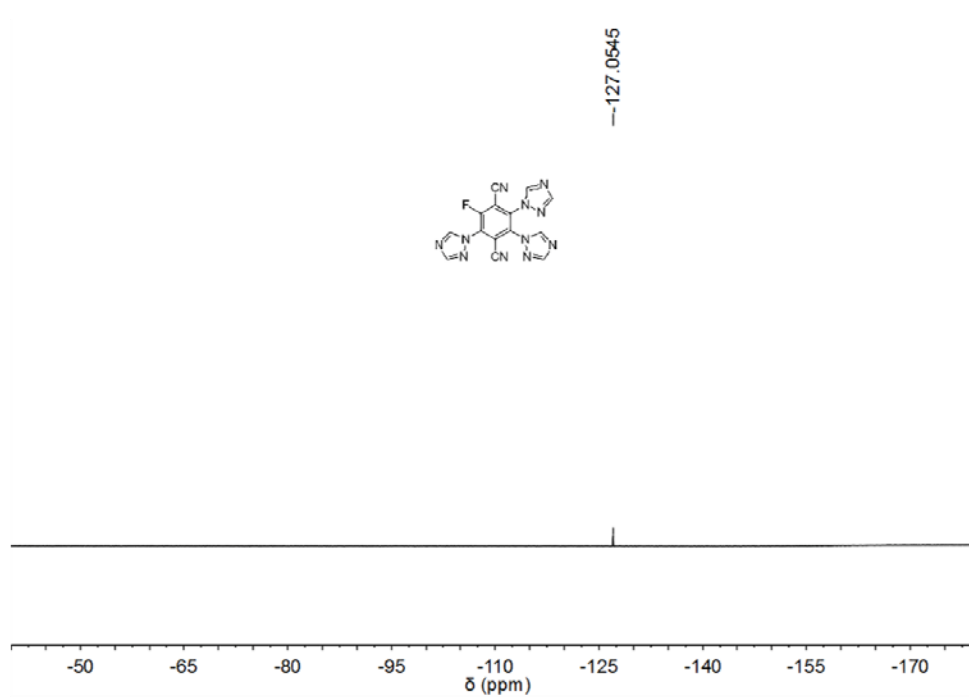


Fig. S3 ^{19}F NMR spectrum of 2-fluoro-3,5,6-tri(1H-1,2,4-triazol-1-yl)-terephthalonitrile (L^1).

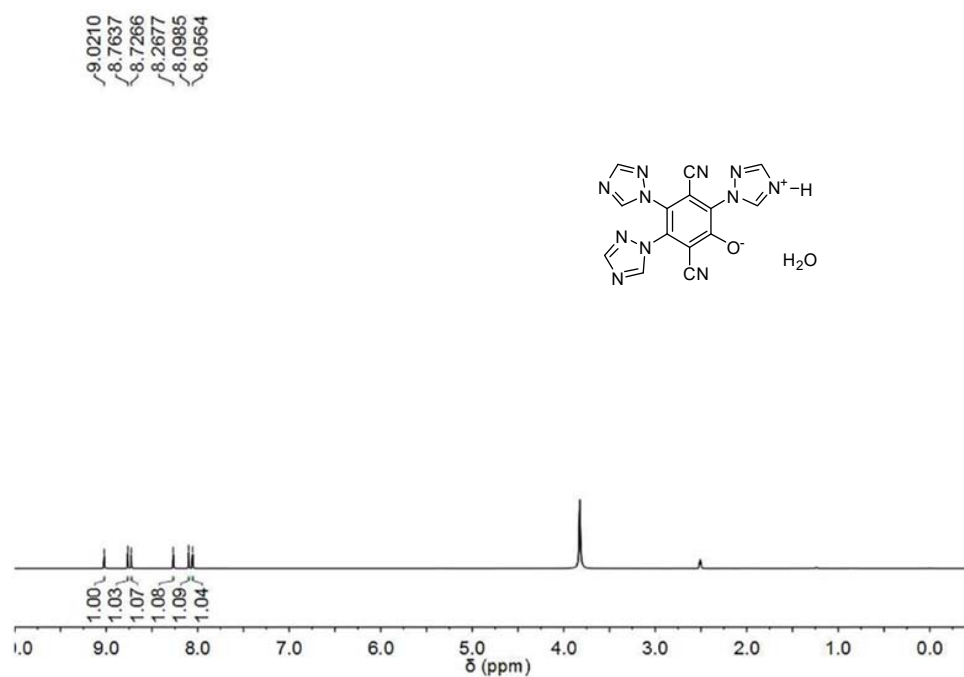


Fig. S4 ^1H NMR spectrum of $\text{HL}^2 \cdot \text{H}_2\text{O}$.

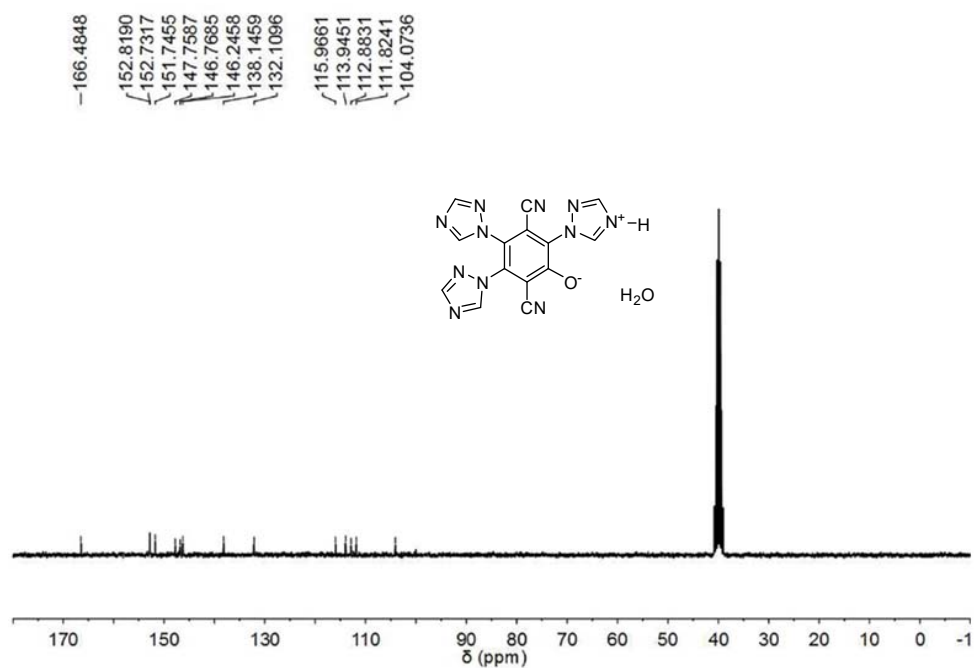


Fig. S5 ^{13}C NMR spectrum of $\text{HL}^2\cdot\text{H}_2\text{O}$.

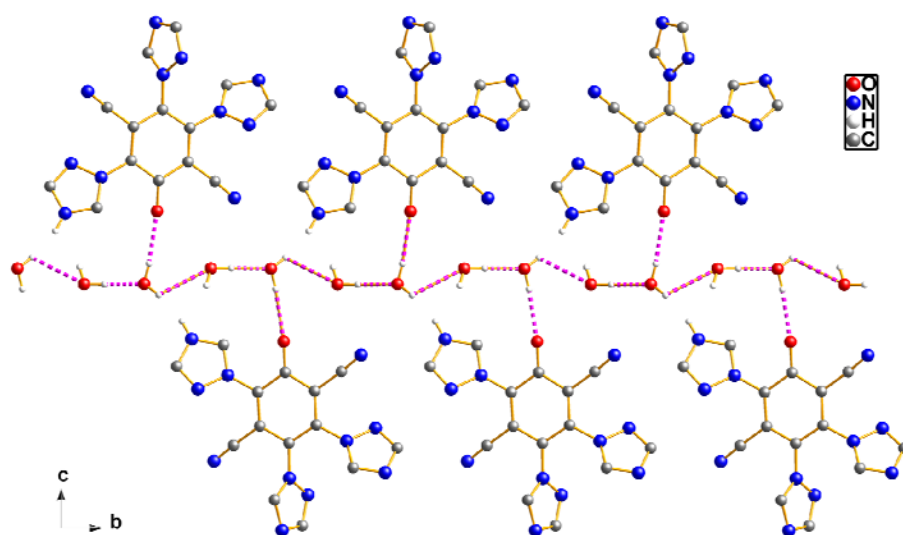


Fig. S6 View of the $\text{O}_{\text{water}}\cdots\text{O1}$ interactions between the heavily disordered lattice water molecules and phenolate oxygen atom in crystals of $\text{HL}^2\cdot\text{H}_2\text{O}$ and chain formation of the water molecules.

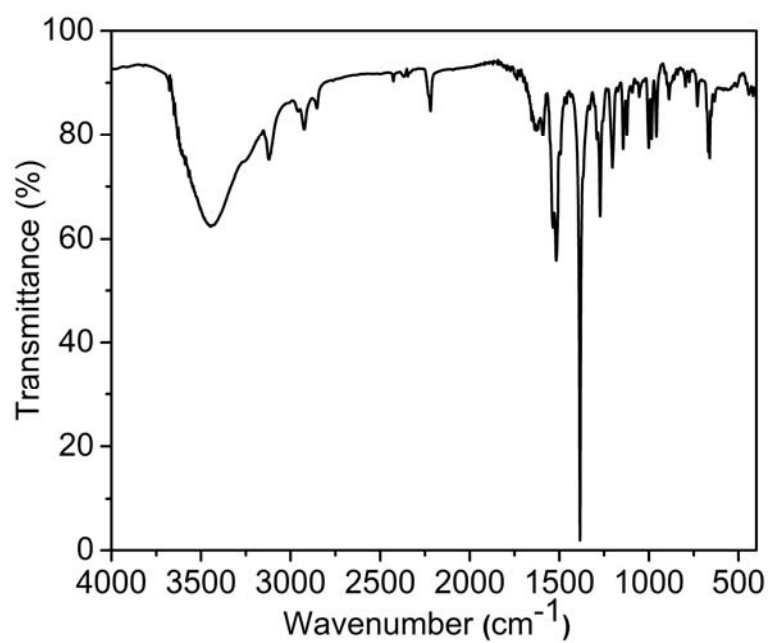


Figure S7: FT-IR spectrum of complex 1.

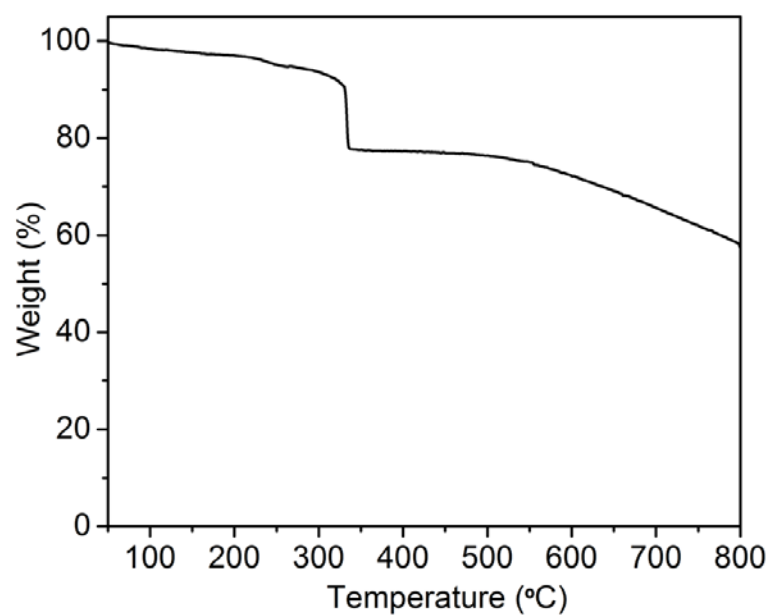


Figure S8: Thermogravimetric profile for complex 1.