

Supplement information

**Hydrothermal Synthesis, Structure, and Luminescent Properties of some
Zn(II)/Cd(II) coordination polymers constructed by
3,5-bis(x-pyridyl)-1,2,4-triazole(x = 3, 4)**

Qing-Feng Xu, Jian-Feng Ge, Qiu-Xuan Zhou, Jian-Mei Lu^{*}, Shun-Jun Ji, Li-Hua Wang, Yong
Zhang, Xue-Ming Jin

*Key Laboratory of Organic Synthesis of Jiangsu Province, School of Chemistry, Chemical
Engineering and Materials Science, Soochow University (DuShuHu Campus), 199 Renai
Road, Suzhou, 215123, China*

*Key Laboratory of Optics of Jiangsu Province, Soochow University (Central Campus), 1 Shizi
Road, 215006, China*

S-1 TG curve of compound **1-6**

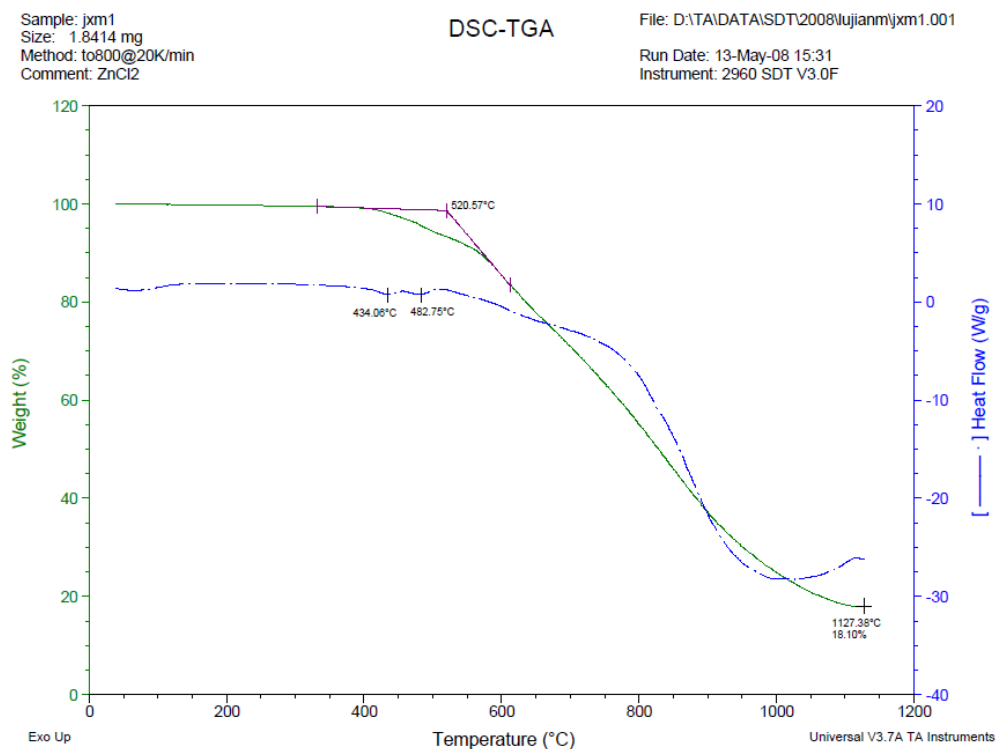


Fig. S-1-1 TG curve of Compound **1**

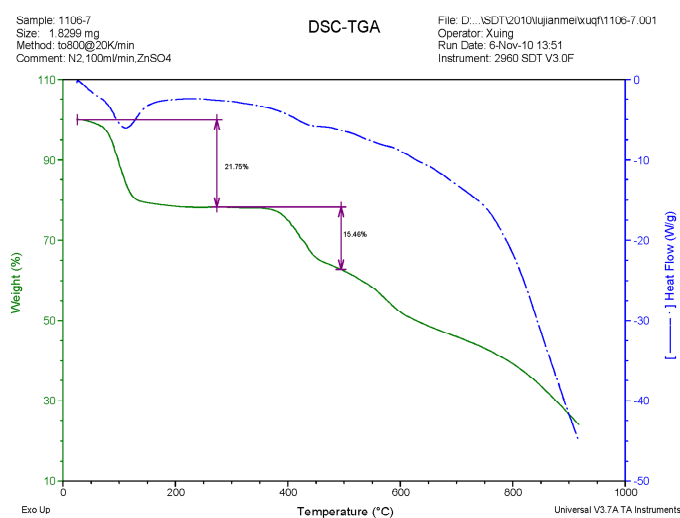


Fig. S-1-2 TG curve of Compound 2

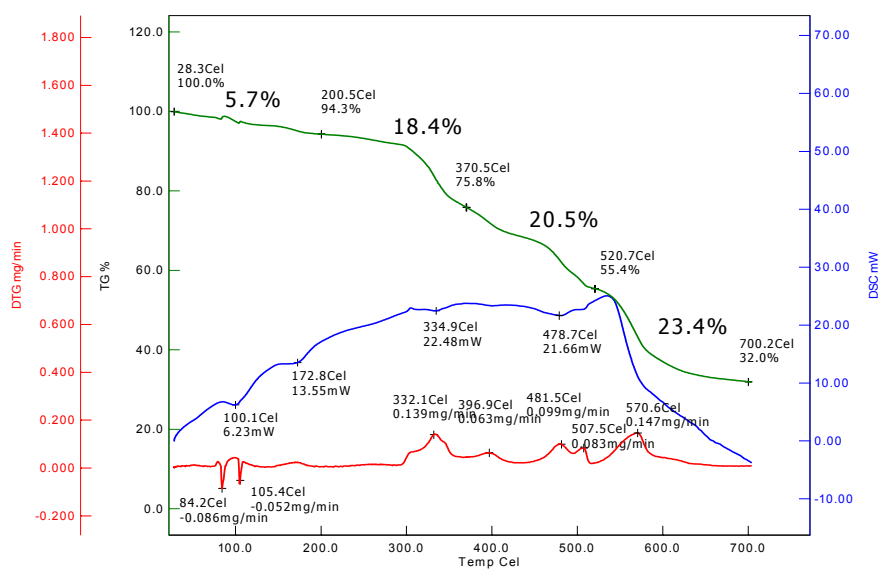


Fig. S-1-3 TG curve of Compound 3

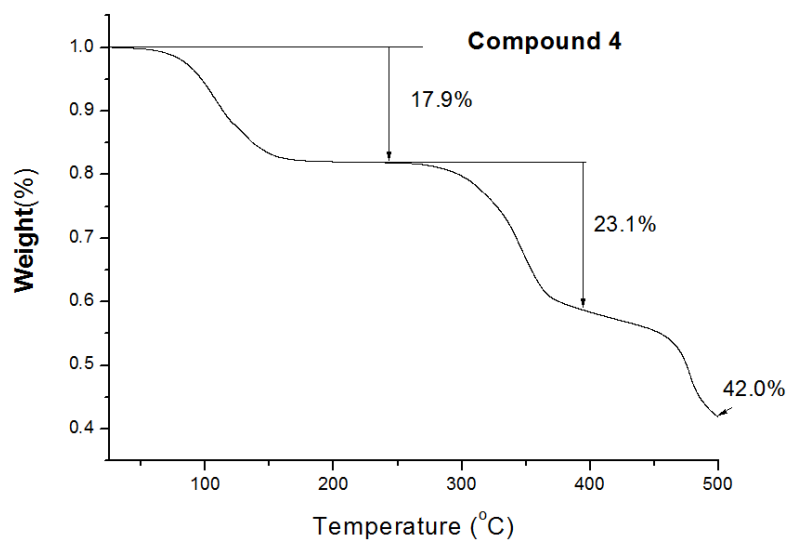


Fig. S-1-4 TG curve of Compound 4

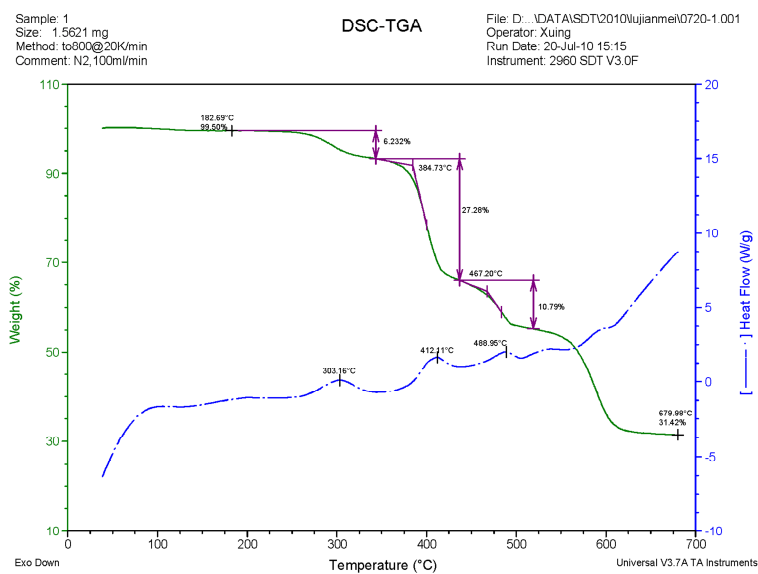


Fig. S-1-5 TG curve of Compound 5

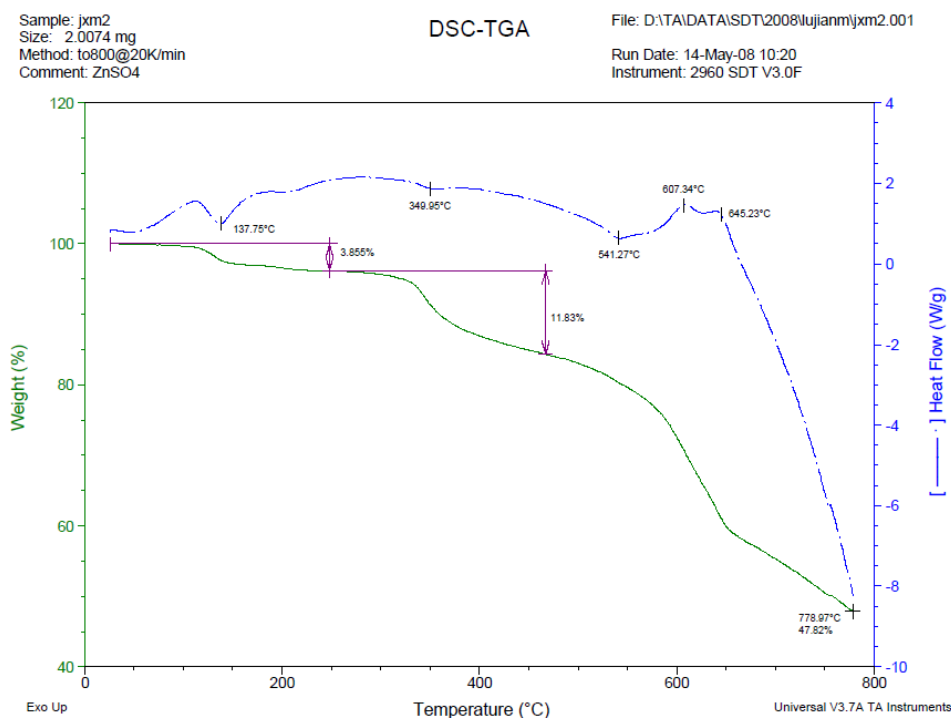


Fig. S-1-6 TG curve of Compound **6**

S-2 N₂ sorption property

Prior to gas sorption experiments, the guest solvent molecules were removed by thermal activation at temperatures of 120 °C for 6 h under a high vacuum. The porosity of compound **3** was estimated by nitrogen gas sorption isotherms at 77 K, as shown in Figure S-2-1. The high N₂ gas sorption amount of 54 cm³(STP)/g at $P/P_0 = 1.0$ and no hysteresis between sorption and desorption traces was observed. The result shows that the gas sorption may be generated from Langmuir surface area (479.5 m²/g).

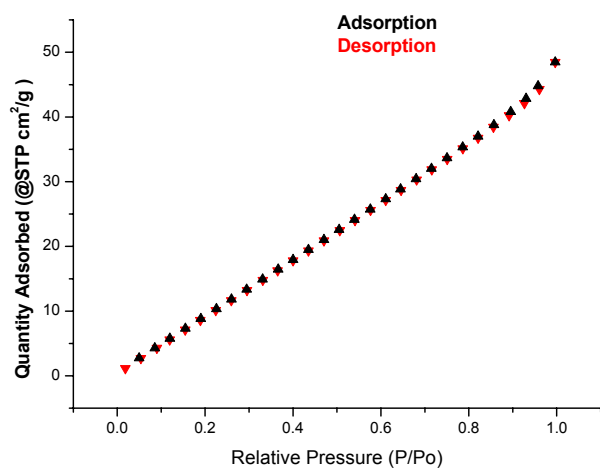


Figure S-2-1 Nitrogen gas sorption/desorption isotherm at 77 K for **3**.