

Electronic Supplementary Information

2-D and 3-D organic-inorganic hybrid lanthanide molybdates linking by pyridine-2,5-dicarboxylate

Shaowei Zhang, Ke Wang, Dongdi Zhang, Pengtao Ma, Jingyang Niu,* and Jingping Wang*

Institute of Molecular and Crystal Engineering, College of Chemistry and Chemical Engineering, Henan University, Kaifeng, Henan 475004, P. R. China. E-mail: jpwang@henu.edu.cn, jyniu@henu.edu.cn, Fax: (+86) 3783886876

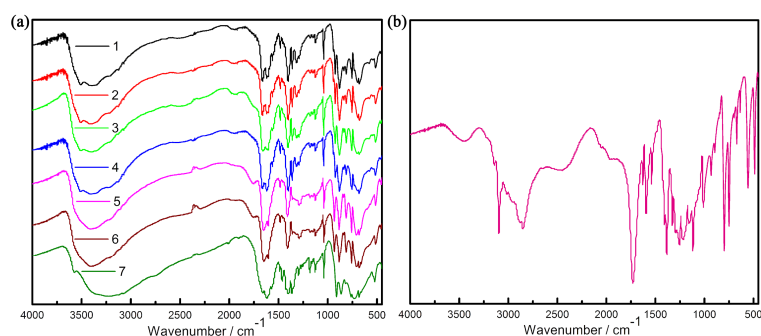


Fig. S1 IR spectra of 1–7 (a) and the free H₂pydc ligand (b).

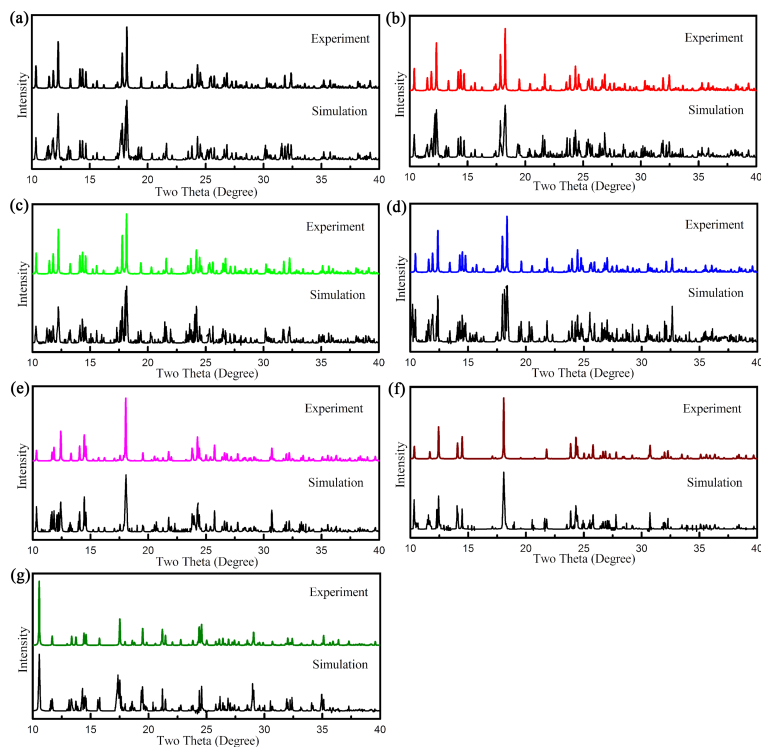


Fig.S2 Comparison of the simulated and experimental XRPD patterns: 1 a), 2 b), 3 c), 4 d), 5 e), 6 f) and 7 g).

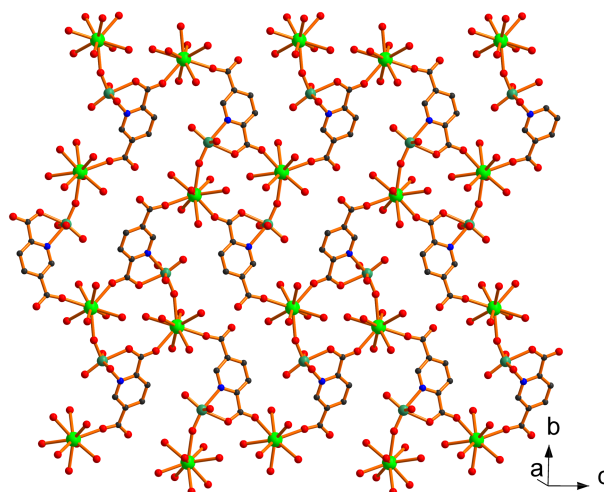


Fig. S3 The 2D layer structure of **1** in the *bc* plane.

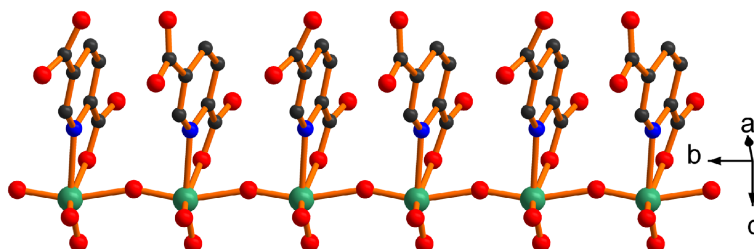


Fig. S4 The 1D chain structure of **7** along the *a* axis.

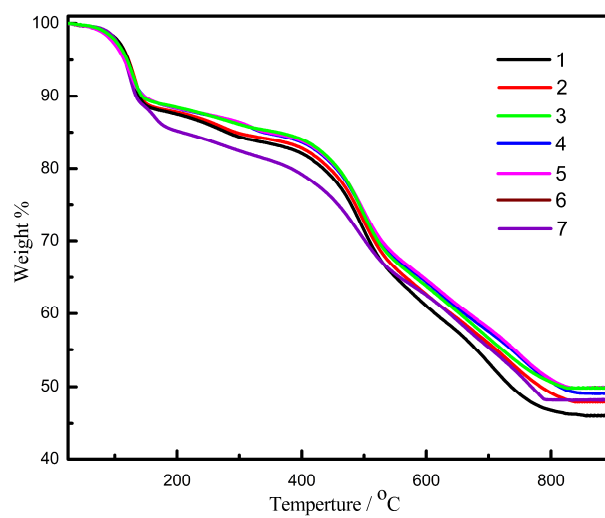


Fig. S5 The TG curves of **1–7** on crystalline samples in a N_2 atmosphere in the range of 25–900 °C.