

SUPPORTING INFORMATION

**Syntheses, Structures, and Photoluminescence of Lanthanide Coordination
Polymers with Pyridine-2,3,5,6-tetracarboxylic Acid**

Ai-Hong Yang¹, Hong-Ling Gao¹, Jian-Zhong Cui^{1*}, Bin Zhao^{a*}

¹ Department of Chemistry, Tianjin University, Tianjin 300072, P. R. China

^a Department of Chemistry, Nankai University, Tianjin 300071, P. R. China

*Author to whom correspondance should be addressed. Email: cuijianzhong@tju.edu.cn

S1. The V-shaped (H₂O)₃ clusters inserted in complex **2**

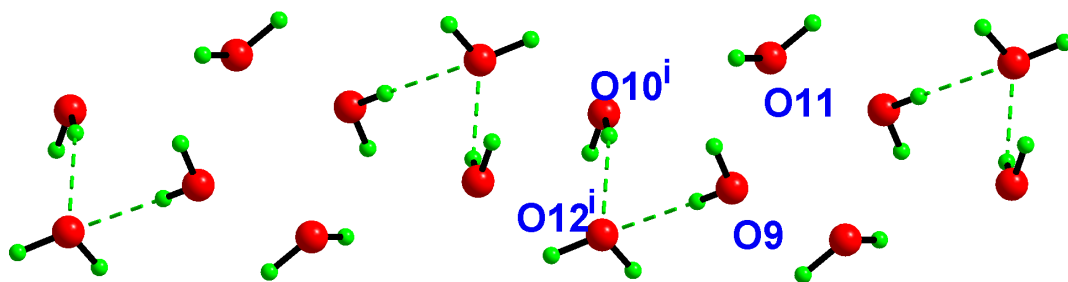
S2. The acyclic (H₂O)₄ cluster in **4**

S3. The 2D structures in *ab* plane (a, b) when K ions are shown or not

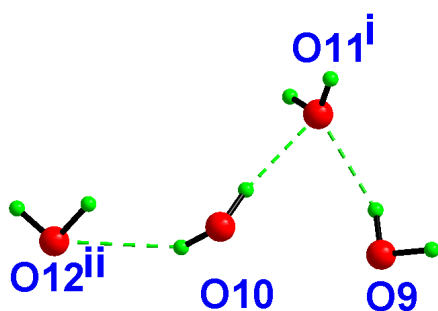
S4. The network diagram of water tapes with the Sm complex acting as connector in **6**, the pdtc⁴⁻ ligands are simplified for clarity

S5. TGA curves for **2**, **4** and **6**

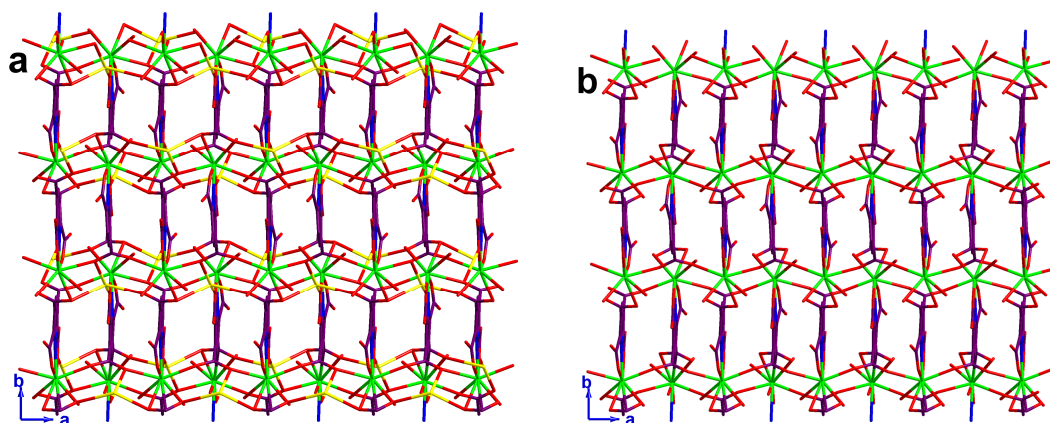
* Corresponding author. *E-mail*: cuijianzhong@tju.edu.cn (J.-Z. Cui).



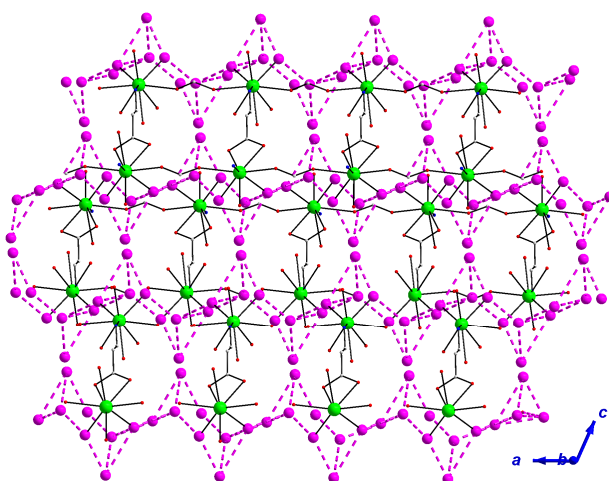
S1. The V-shaped (H₂O)₃ clusters inserted in complex **2**. The symmetry code: ⁱ 1-x, 1-y, -z.



S2. The acyclic (H₂O)₄ cluster in **4**. The symmetry code: ⁱ -x, 1-y, 1-z; ⁱⁱ x, -1+y, 1+z.

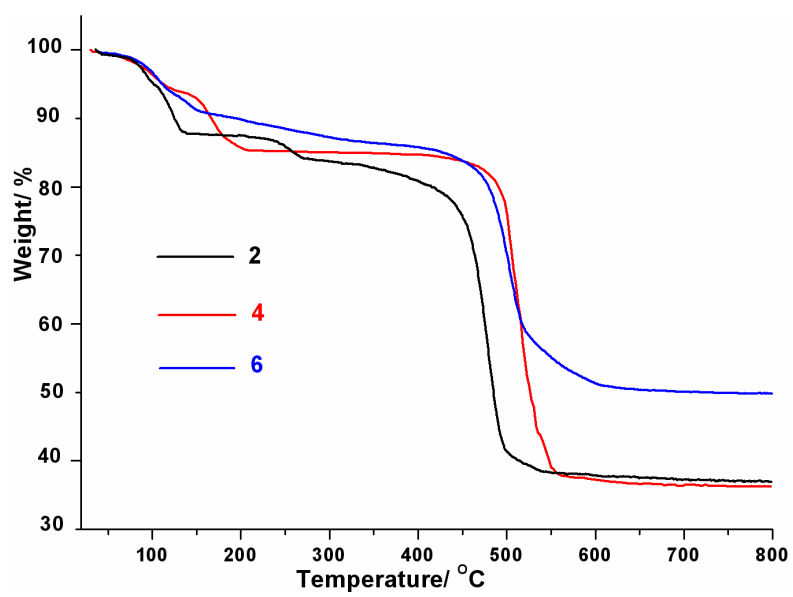


S3. The 2D structures in *ab* plane (a, b) when K ions are shown or not



S4. The network diagram of water tapes with the Sm complex acting as connector in **6**, the pdtc⁴⁻

ligands are simplified for clarity



S5. TGA curves for 2, 4 and 6