

Supporting Information

An unusual eight-connected self-penetrating “ilc” net constructed by dinuclear lanthanide building units

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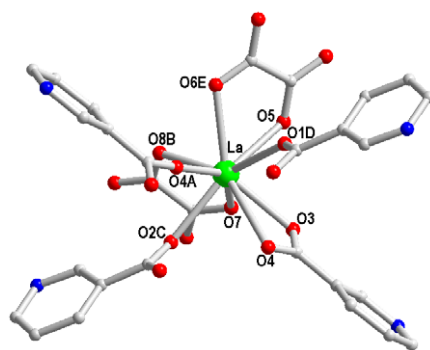


Figure S1. The coordination environments of La atom in **1**. Atoms having “A”, “B”, “C”, “D”, or “E” in their labels are symmetry-generated. Symmetry code A: $-x + 1, -y, -z + 2$; B: $-x + 2, -y, -z + 2$; C: $-x + 2, y - 1/2, -z + 5/2$; D: $x - 1, -y + 1/2, z - 1/2$; E: $-x + 1, -y, -z + 1$.

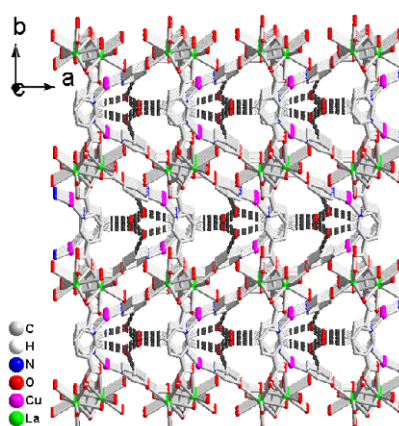


Figure S2. Hydrogen bonds of the solvent waters in the compound **1**. The 1-D water chains interact with the framework through hydrogen bonds: C8A-H8A \cdots OW1(A: $1 + x, y, z$): 2.725(8) Å, C2B-H2B \cdots OW2(B: $x, 0.5 - y, 0.5 - z$): 3.038(5) Å, C11-H11 \cdots OW2: 2.702 (7) Å, OW1 \cdots OW2: 2.795(8)-2.912(10) Å..

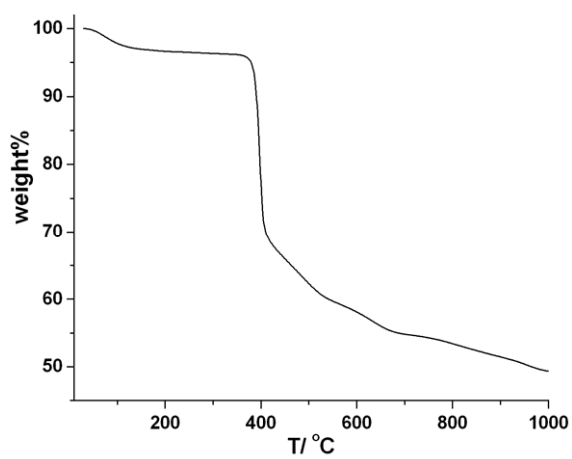


Figure S3. TG curve of **1**.

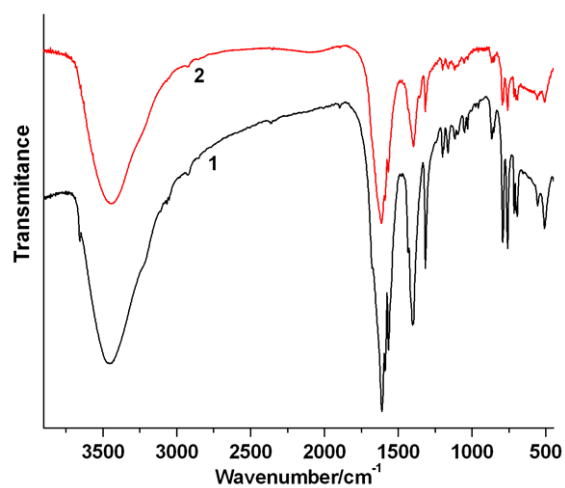


Figure S4. The IR spectra of **1-2**, respectively.