Supporting information

Self-assembly of three-dimensional 4d–4f coordination frameworks based on one-dimensional inorganic heterometallic chains and linear organic linkers

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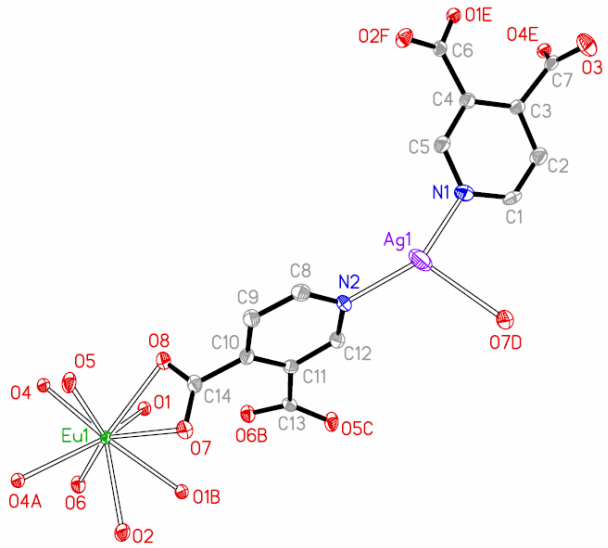

Fig. S1 ORTEP view of **2** with 50% thermal ellipsoids. Other atoms have omitted for clarity. Symmetry codes: A (–1 – x, 1 – y, –1 – z); B (–x, 1 – y, –1 – z); C (1 + x, y, z); D (1 – x, 1 – y, –z); E (1 – x, 2 – y, –z); F (1 + x, 1 + y, 1 + z).

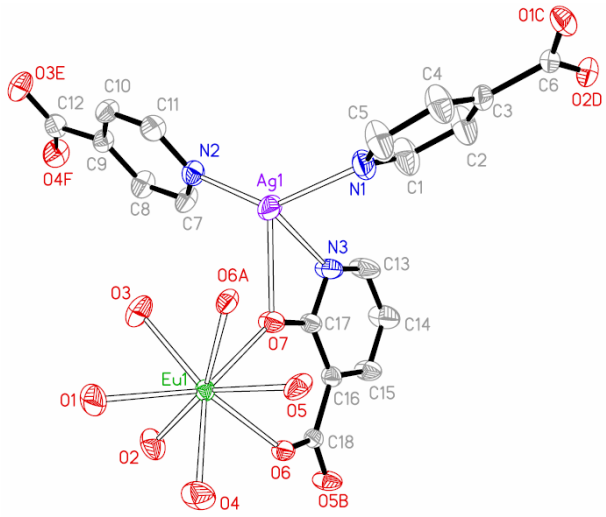

Fig. S2 ORTEP view of **4** with 50% thermal ellipsoids. Other atoms have omitted for clarity. Symmetry codes: A (1/2 – x, 1/2 + y, z); B (1/2 – x, –1/2 + y, z); C (1/2 – x, 1 – y, –1/2 + z); D (x, 1/2 – y, –1/2 + z); E (–x, 1 – y, 1 – z); F (–1/2 + x, 1/2 – y, 1 – z).

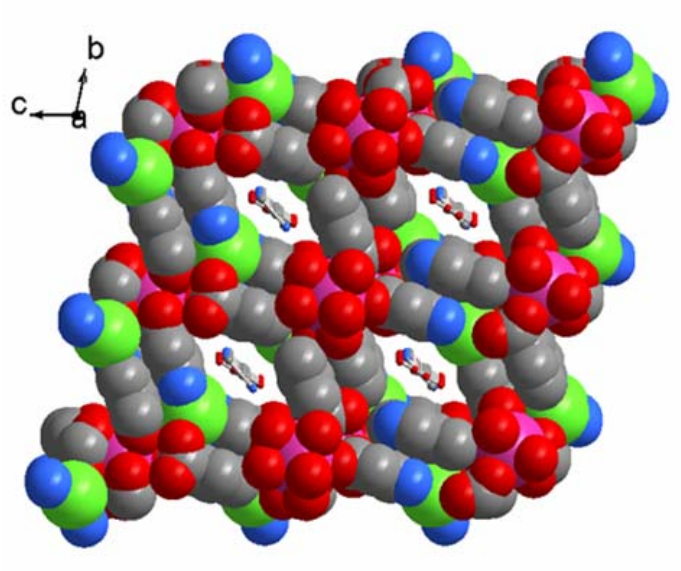

Fig S3 Space-filling diagram of the 3D coordination framework of **1** containing 1D channels with approximate dimensions of 8.554 × 13.188 Å along the *a* axis.

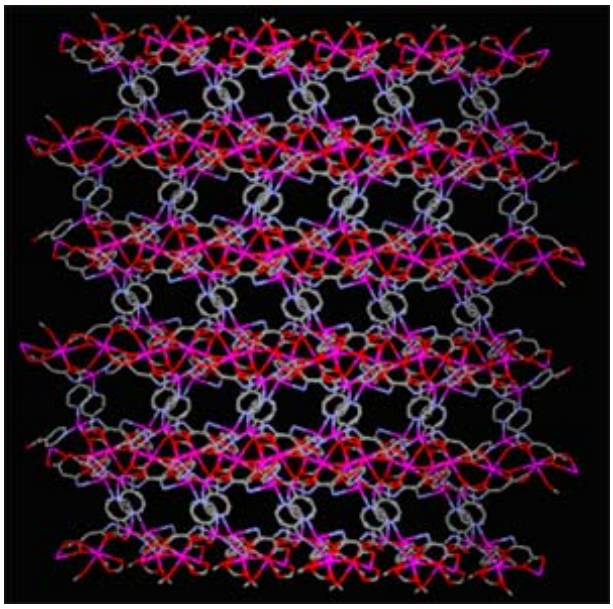

Fig. S4 View of the 3D coordination framework of **3** with 1D channels.

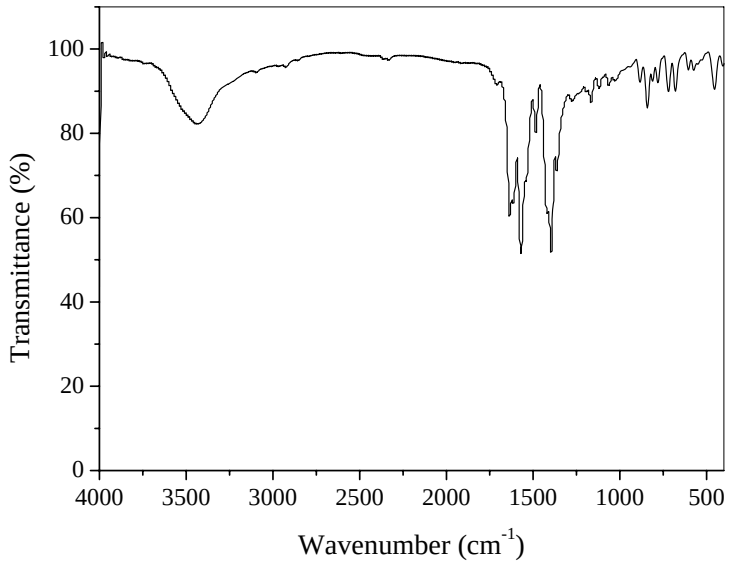

Fig. S5 IR spectrum of **1**.

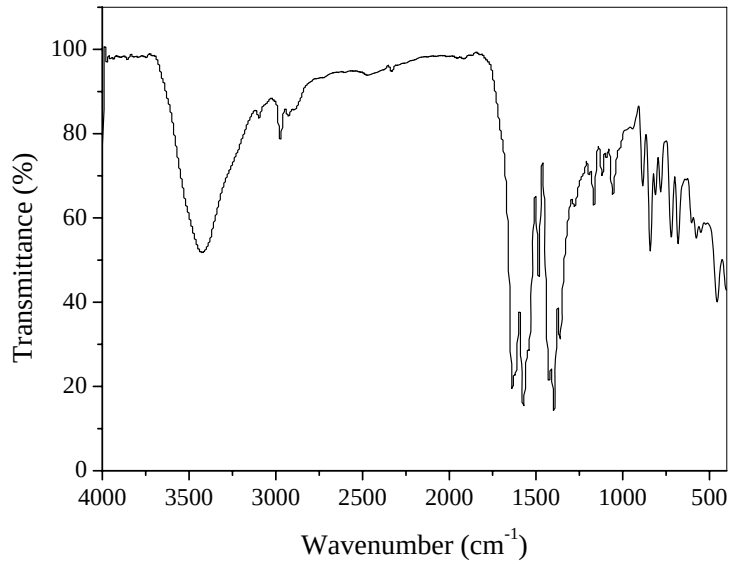

Fig. S6 IR spectrum of **2**.

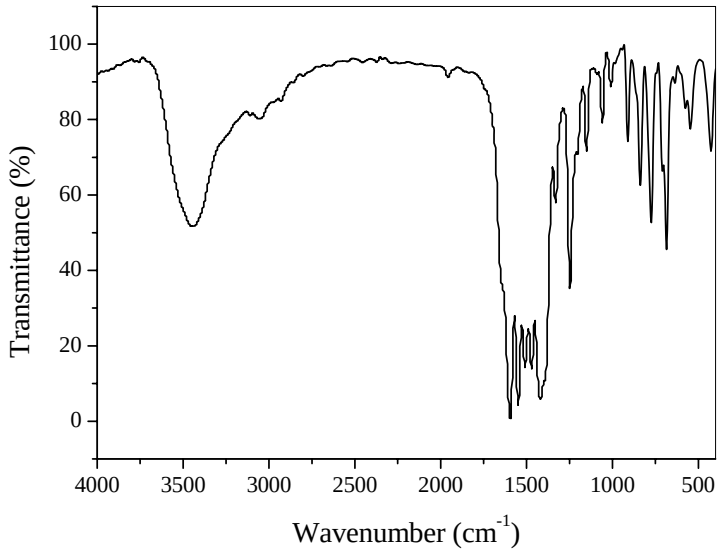

Fig. S7 IR spectrum of **3**.

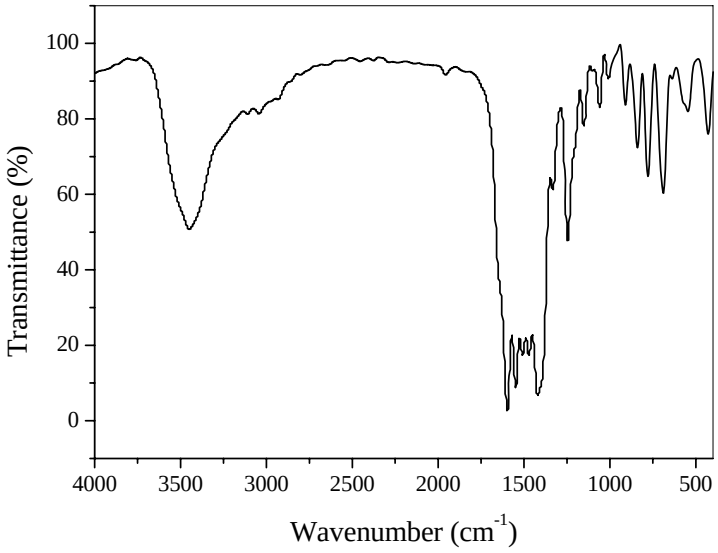

Fig. S8 IR spectrum of **4**.

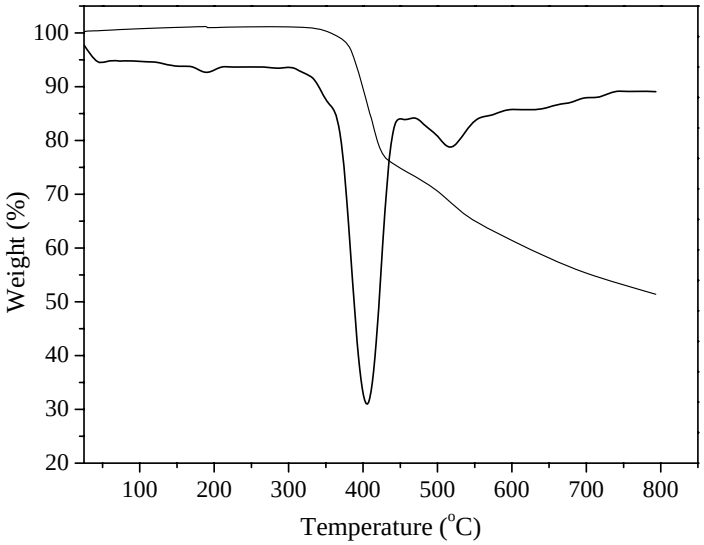

Fig. S9 TG curve of **1**.

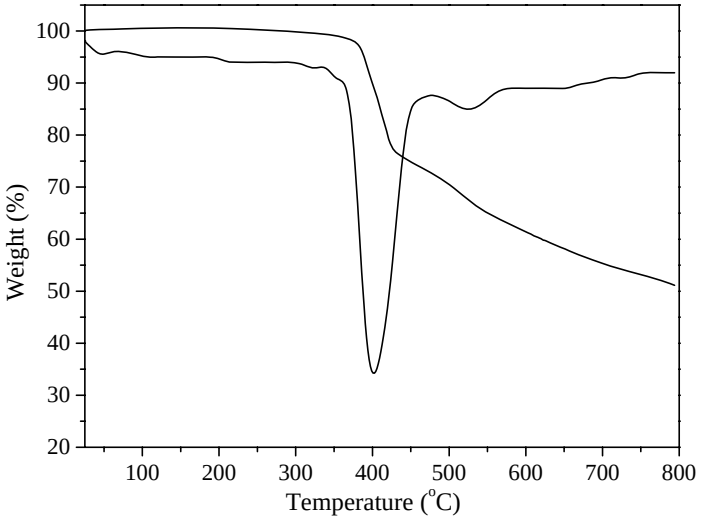

Fig. S10 TG curve of **2**.

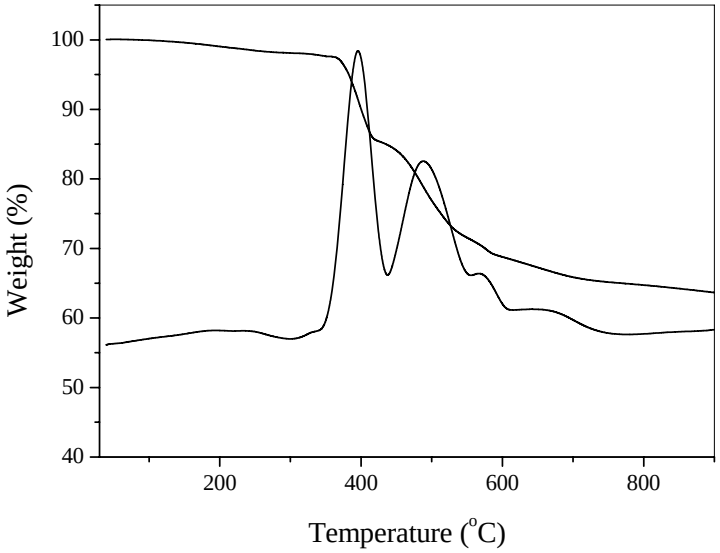

Fig. S11 TG curve of **3**.

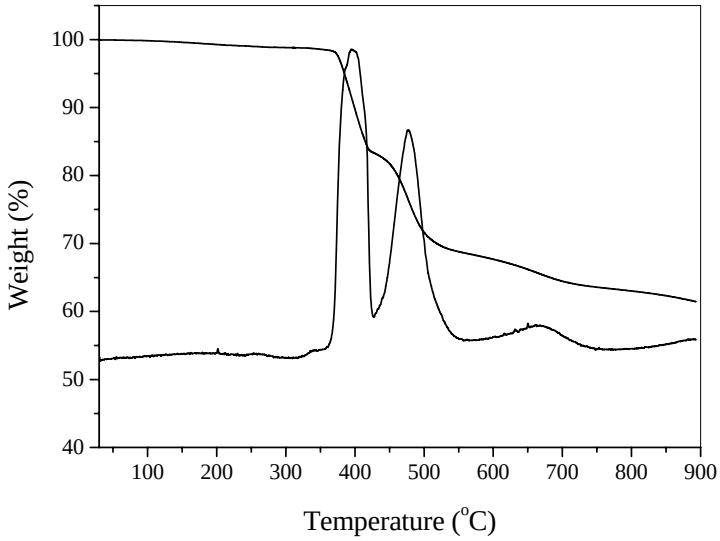

Fig. S12 TG curve of **4**.