

Supplementary information

Figure captions.

Fig. S1. Extended 2D structure of **4**.

Fig. S2. POVRAY© structural representation of the cation in **7**.

Fig. S3. POVRAY© structural representation of the cation in **8**.

Fig. S4. POVRAY© structural representation of the cation in **9**.

Fig. S5. POVRAY© structural representation of the cation in $\text{Ni}_2(\text{Cl}_2\text{poap})_3\text{F}] (\text{BF}_4)_3 \cdot 5\text{H}_2\text{O}$.

Fig. S6. M/H data for **2** at 2 K.

Fig. S7. Variable temperature magnetism for **4** (see text for fitted parameters).

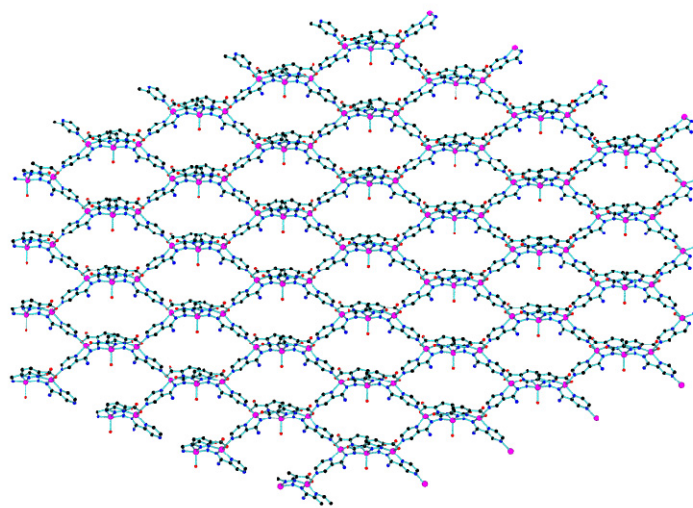


Fig S1

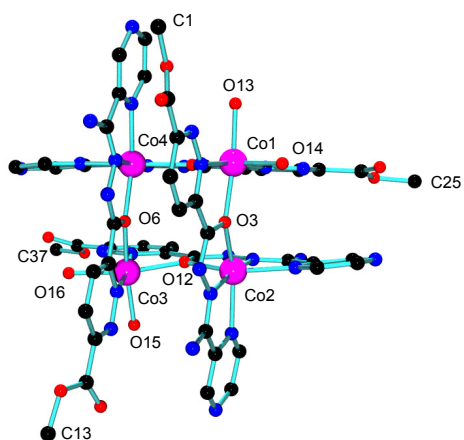


Fig S2

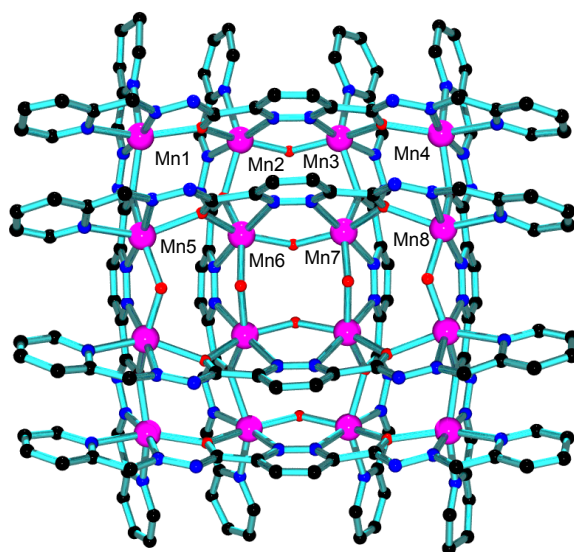


Fig S3

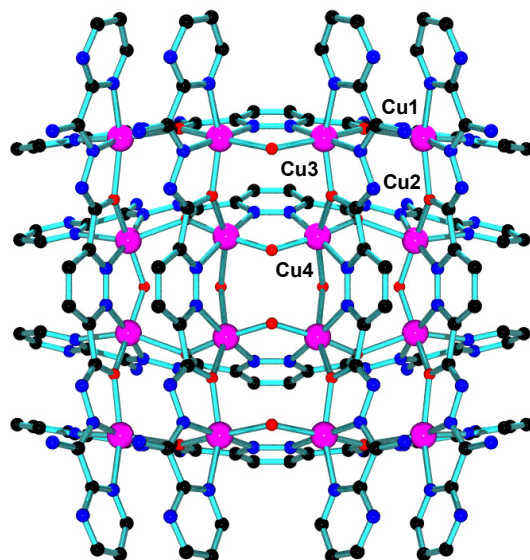


Fig S4

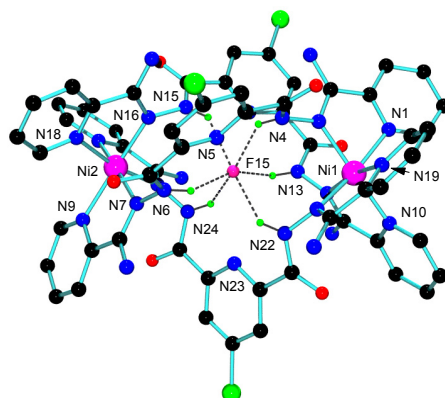


Fig S5

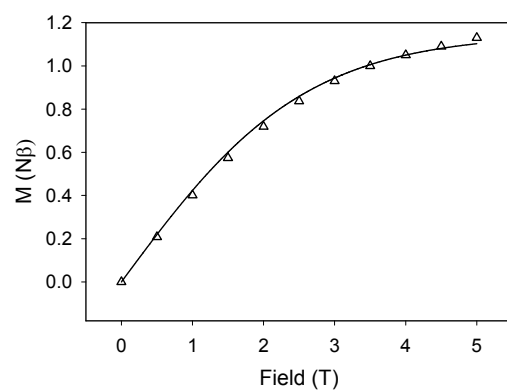


Fig S6

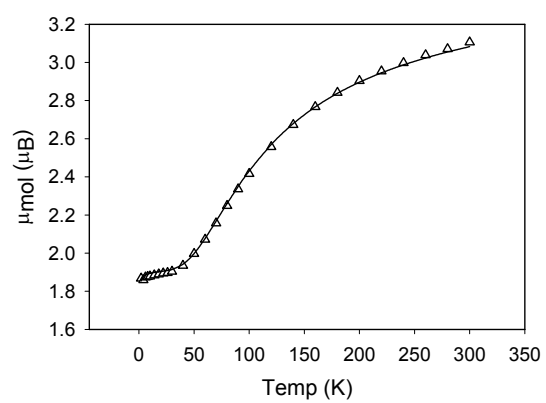


Fig S7