

Supporting Information

Isostructural Single-Chain and Single-Molecule Magnets

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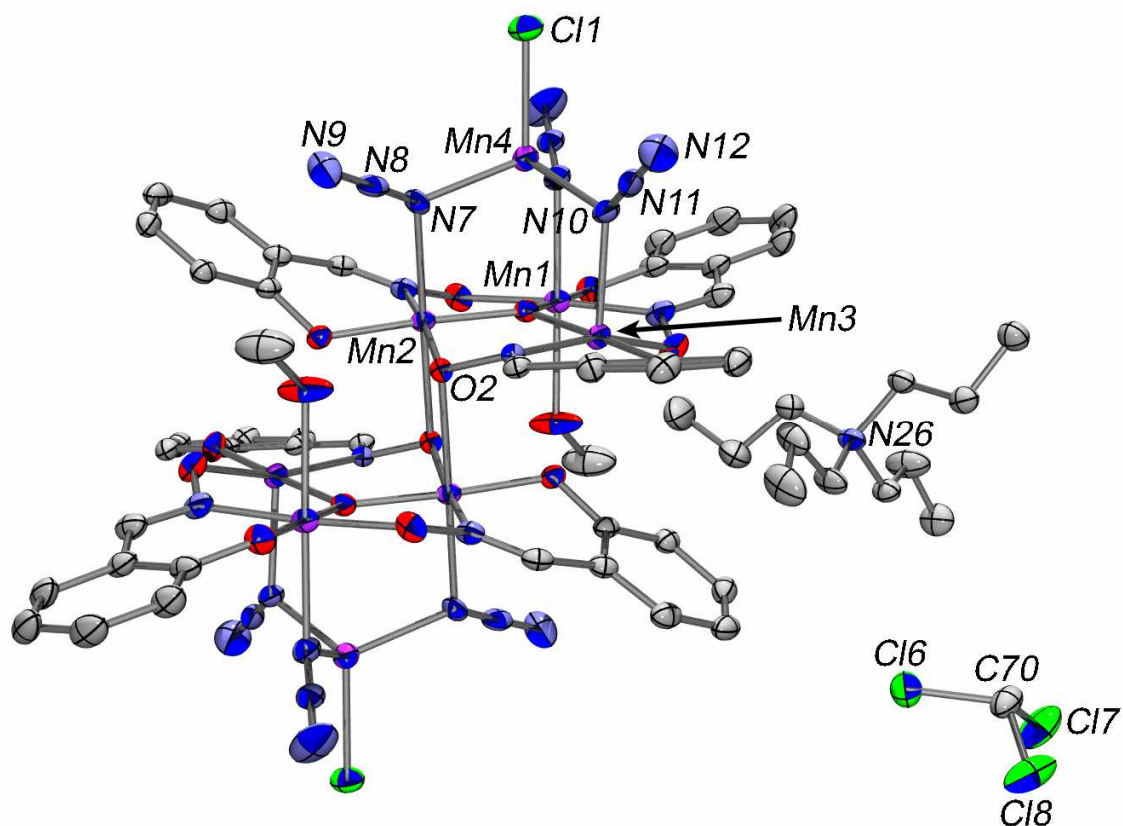


Figure S1. Labeled ORTEP for complex **3** at the 50% probability level.

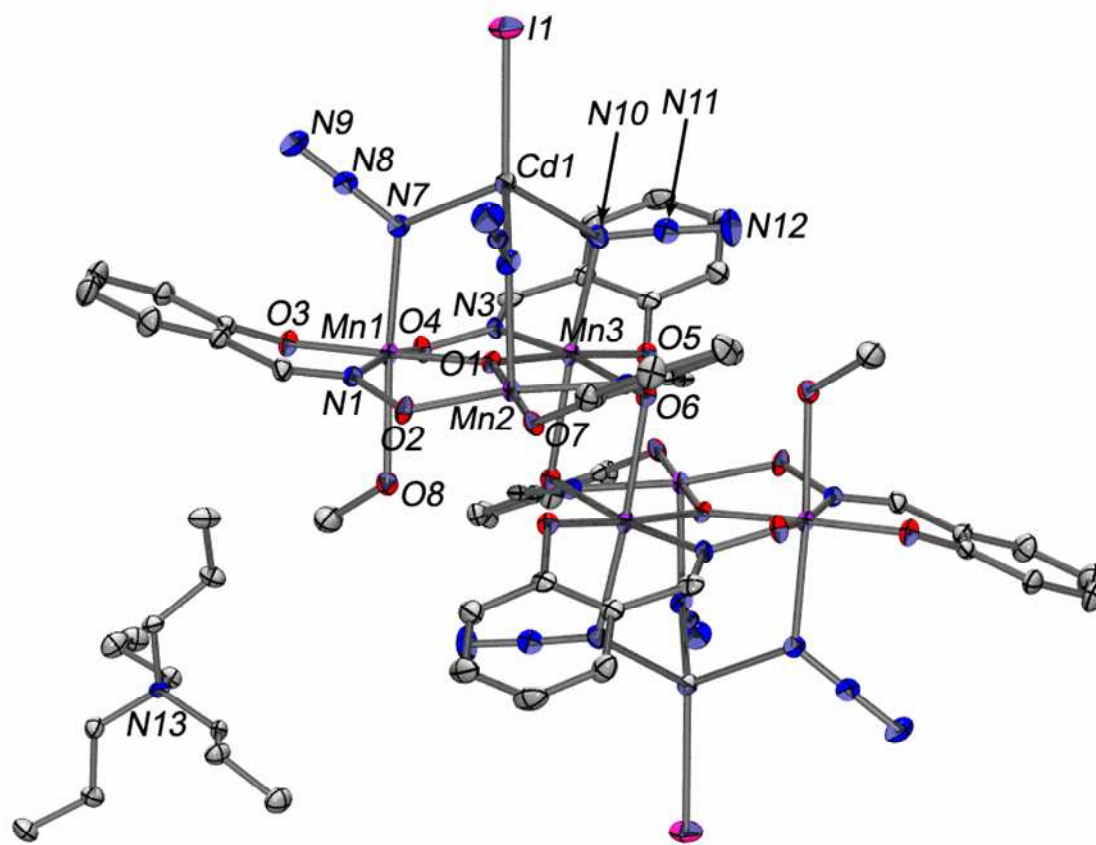


Figure S2. Labeled ORTEP for complex **4** at the 50% probability level. MeOH solvate molecules have been omitted for clarity.

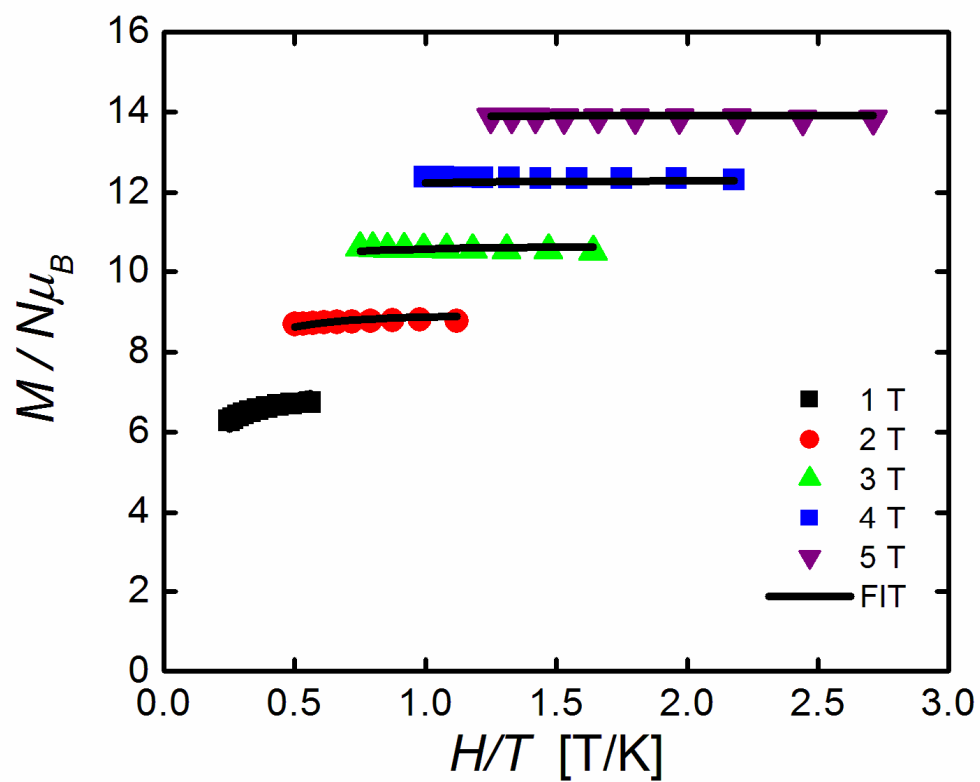


Figure S3. Least-squares fit of the reduced magnetization for complex **2**, taken from 1.8-4K at the fields shown.

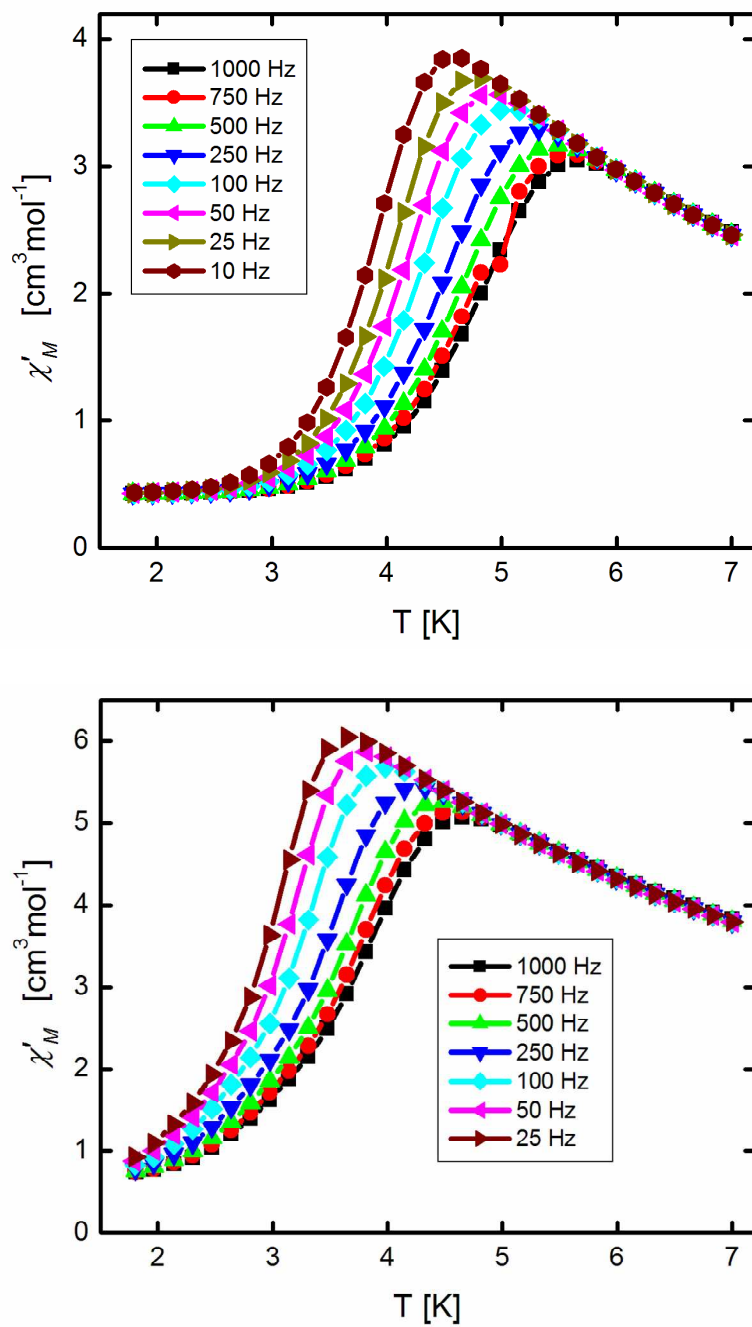


Figure S4. (top) In-phase magnetic susceptibility (χ'_M) for complex **1**, from 1.8-7 K and at 10-1000 Hz. (bottom) In-phase magnetic susceptibility (χ'_M) for complex **2**, from 1.8-7 K and at 25-1000 Hz.

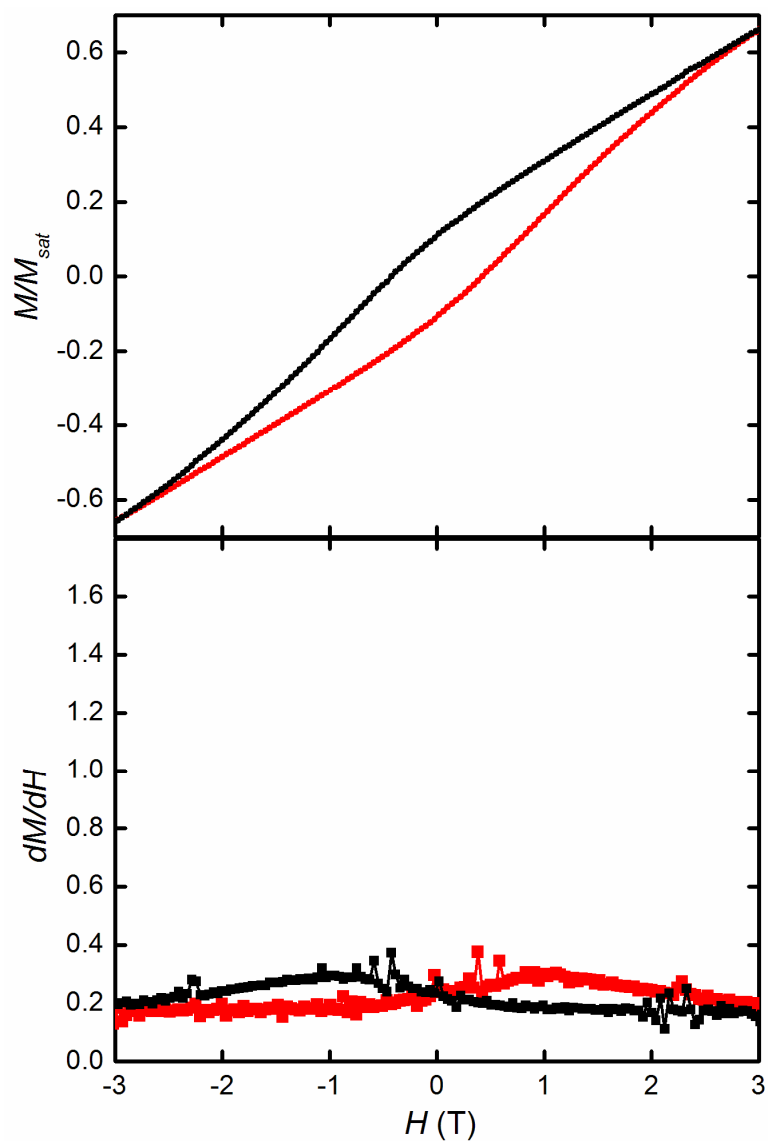


Figure S5. (top) Magnetization hysteresis loops collected at 1.8 K on a partially aligned polycrystalline sample of **1**, with the magnetic field applied along the net easy axis of the sample. (bottom) Derivative plot (dM/dH) of the above magnetization hysteresis loop.

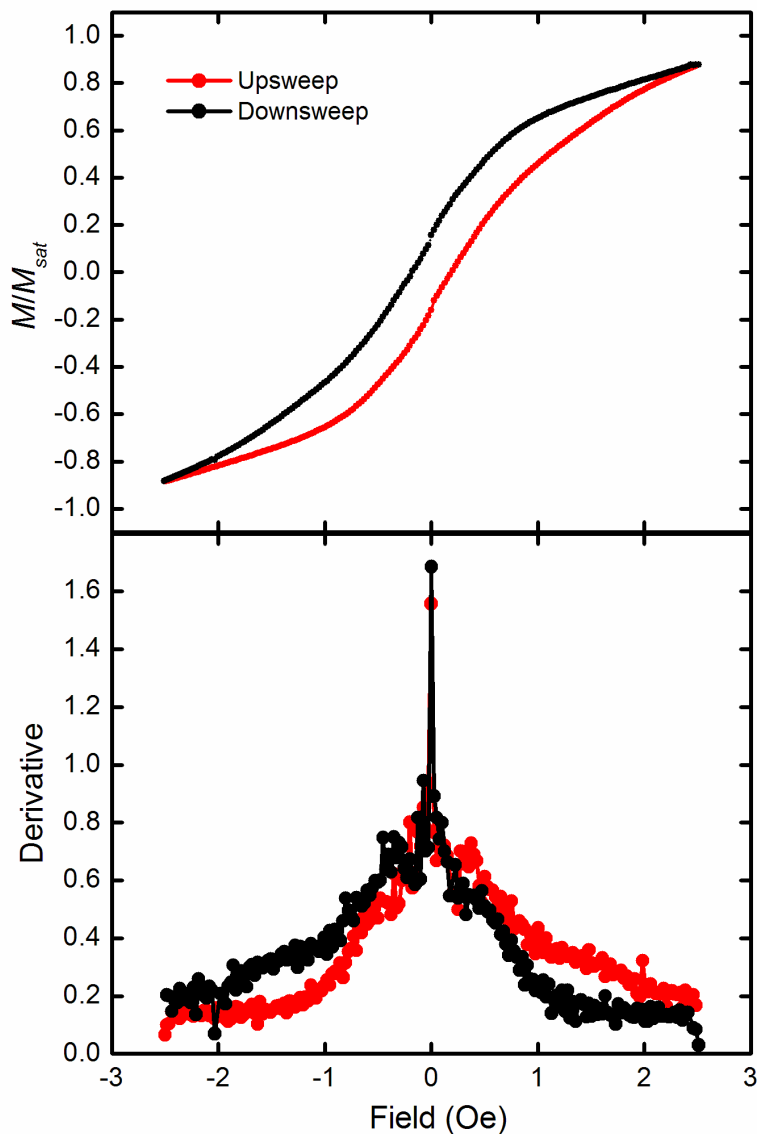


Figure S6. (top) Magnetization hysteresis loops collected at 1.8 K on a partially aligned polycrystalline sample of **2**, with the magnetic field applied along the net easy axis of the sample. (bottom) Derivative plot (dM/dH) of the above magnetization hysteresis loop. The vertical step at zero applied field is reproducible and not an instrumental artifact, as confirmed via known reference samples.