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Supplementary Information



Figure S1. Diamond view of the asymmetric unit of complex 7.



Figure S2. Diamond view of the tetranuclear complex 5. H atoms are omitted for clarity.



Figure S3. Field dependence of the magnetization for **3** at 2 K with an approximate model using a set of eight Cu ions.

Figure S4. Temperature dependence of the $\chi_M T$ product for complex **1** at 0.1 T applied magnetic field. The solid line corresponds to the best data fit (see text).

Figure S5. Temperature dependence of the $\chi_M T$ product for complex **2** at 0.1 T applied magnetic field. The solid line corresponds to the best data fit (see text).

Figure S6. Temperature dependence of the $\chi_M T$ product for complex 4 at 0.1 T applied magnetic field. The solid line corresponds to the best data fit (see text).

Figure S7. Temperature dependence of the $\chi_M T$ product for complex **9** at 0.1 T applied magnetic field. The solid line corresponds to the best data fit (see text).

Figure S8. Temperature dependence of the $\chi_M T$ product for complex **5** at 0.1 T applied magnetic field. The solid line corresponds to the best data fit (see text).

Figure S9. Single-crystal magnetization (*M*) vs. applied field measurements ($\mu_0 H$) for complexes **8** (up) and **6** (down) at several temperatures and 0.14 T/s (top), and at 0.04 K for several field sweep rates (bottom). *M* is normalized to its saturation value at 1.4 T.