

Supporting Information

Synthesis and characterization of nona- and trideca-nuclear manganese phosphonate clusters

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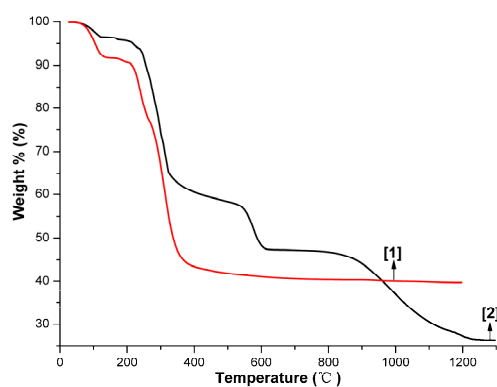


Fig. S1 The TG curves of complexes **1** and **2**.

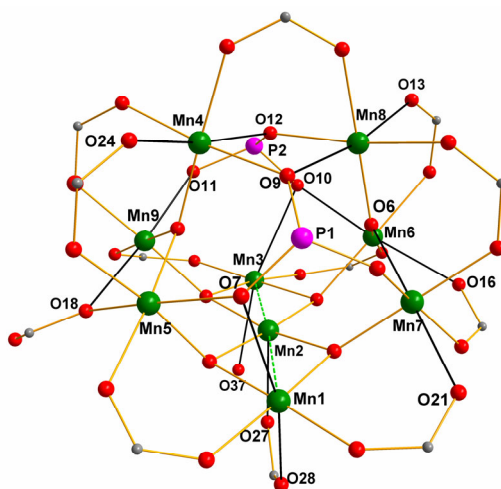


Fig. S2 The structure of compound **1**. The Jahn-Teller elongated axes of the nine Mn(III) ions are highlighted in black. Color code: green, Mn; purple, P; red, O; gray, C. Hydrogen atoms and carbon atoms except those attached to the oxygen atoms have been omitted for clarity.

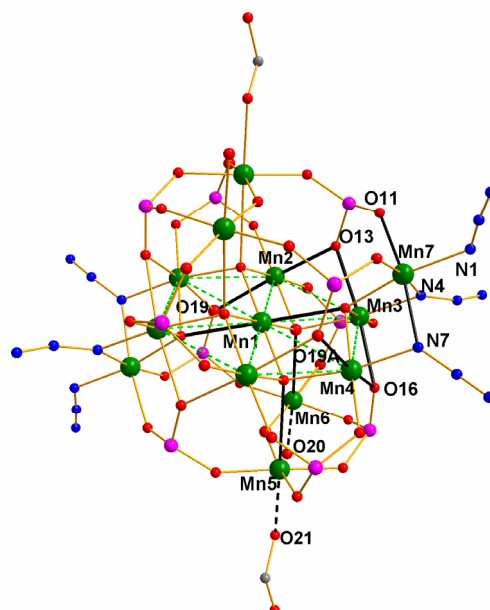


Fig. S3 The structure of compound **2**. The Jahn-Teller elongated axes of the thirteen Mn(III) ions are highlighted in black. Color code: green, Mn; purple, P; red, O; gray, C. Hydrogen atoms and carbon atoms except those attached to the oxygen atoms have been omitted for clarity.

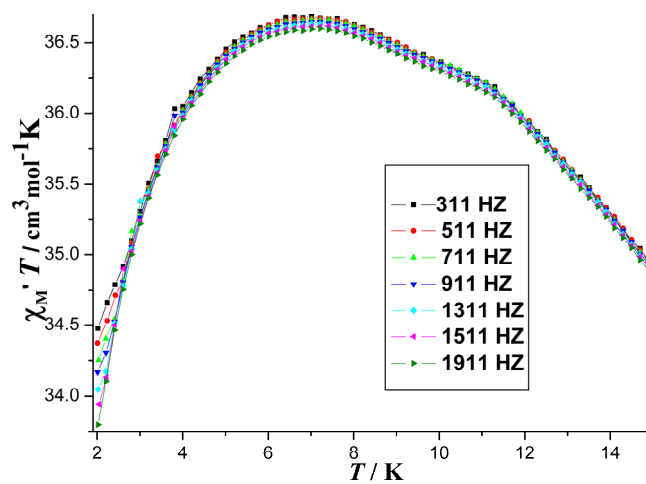


Fig. S4 In-phase ($\chi_M' T$) AC susceptibility versus T for complex **1** measured in a 3.0 G AC field oscillating at the indicated frequencies and in the temperature rang of 2-15 K.

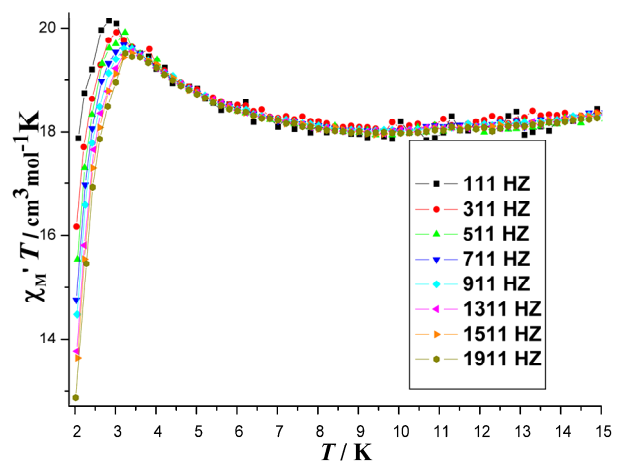


Fig. S5 In-phase ($\chi_M' T$) AC susceptibility versus T for complex **2** measured in a 3.0 G AC field oscillating at the indicated frequencies and in the temperature rang of 2-15 K.