

Electronic Supplementary Information for Dalton Transactions

Mononuclear and dinuclear manganese compounds stabilized by supramolecular interactions

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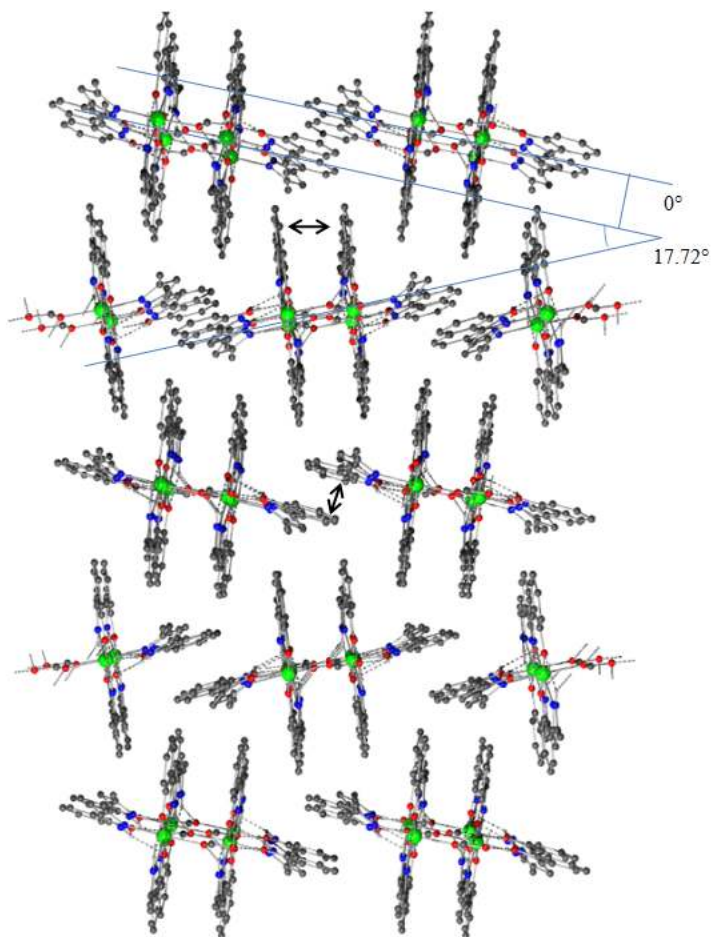


Figure S1. View of the 3-D network of $[\text{Mn}(\text{HphpzMe})_2(\text{H}_2\text{phpzMe})(\text{HCO}_2)]$ (**1**) indicating the π - π stacking with arrows and the angles formed between the manganese(III) chains. Colour code: green, manganese; blue, nitrogen; red, oxygen; grey, carbon.

Table S1. Details (distances [Å] and angles [°]) of the π - π interactions in [Mn(HphpzMe)₂(H₂phpzMe)(HCO₂)] (**1**) and [Mn(HphpzPh)₂N₃] (**5**).

Cg ^a ⋯Cg ^a	Cg ^a ⋯Cg	α^b
Compound 1		
Cg2⋯Cg6	3.569(3)	8.3(2)
Cg3⋯Cg8	3.881(3)	16.2(2)
Compound 5		
Cg1⋯Cg1	3.9198(13)	0
Cg1⋯Cg7	3.9761(13)	1.10
Cg6⋯Cg8	3.9964(14)	4.90

^a Cg are the five or six-membered rings: Compound 1: Cg2, N1B–C9B; Cg3, N1C–C9C; Cg6, C1A–C6A; Cg8, C1C–C6C. Compound 2: Cg1, N11–C111; Cg6, C24–C29; Cg7, C(112)–C(117); Cg8, C212–C217; ^b α are the dihedral angles between each pair of mean ring planes.

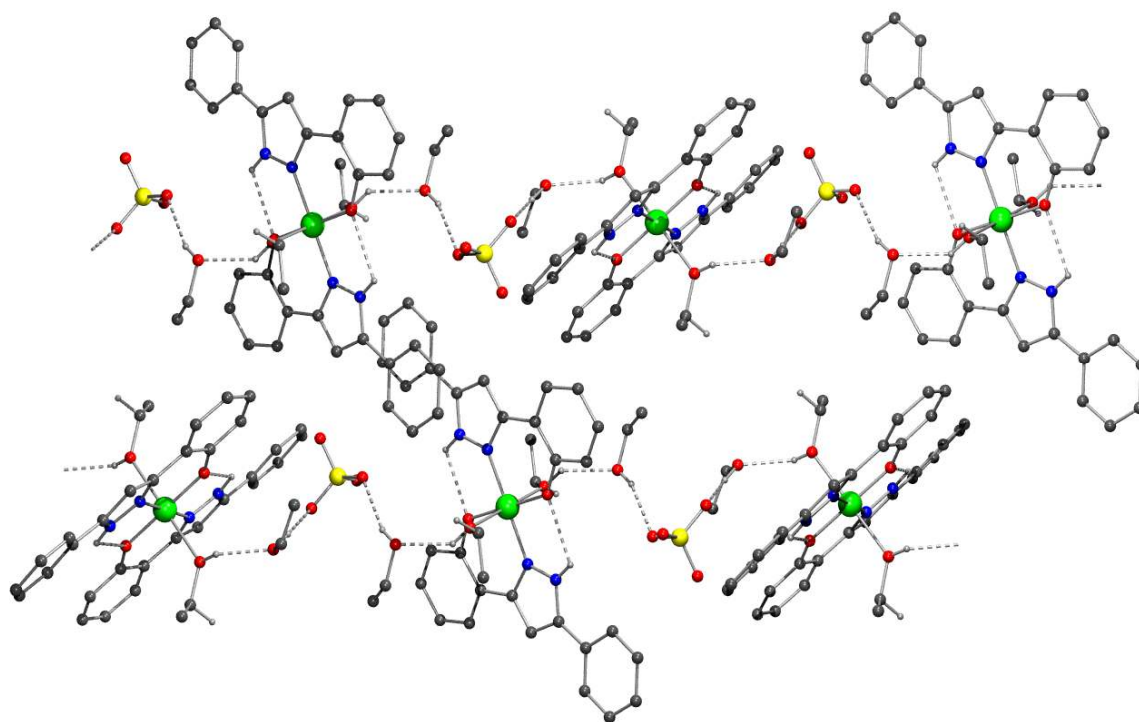


Figure S2. View of the 3-D network of [Mn(HphpzPh)₂(EtOH)₂](ClO₄)·2EtOH (**4**). Colour code: green, manganese; yellow, chloride; blue, nitrogen; red, oxygen; grey, carbon.

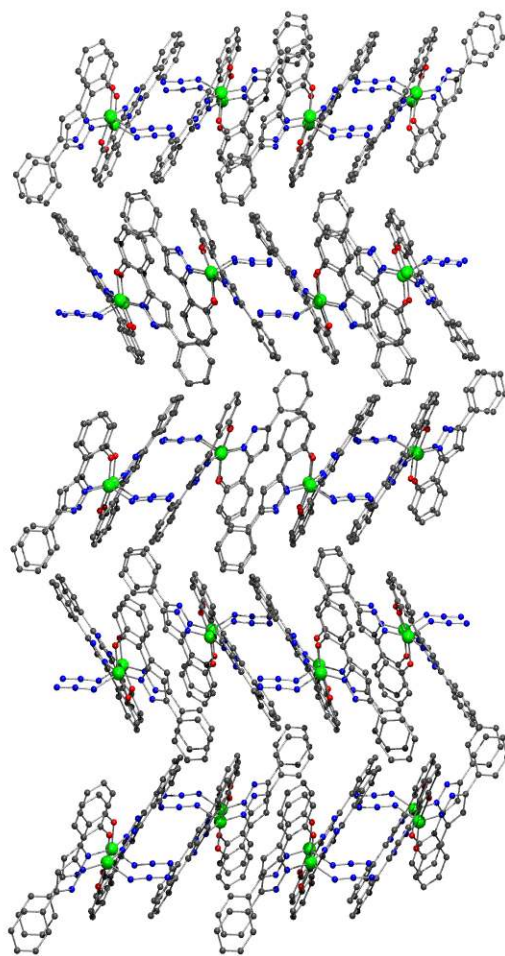


Figure S3. View of the 3-D network of [Mn(HphpzPh)₂N₃] (**5**). Colour code: green, manganese; blue, nitrogen; red, oxygen; grey, carbon.

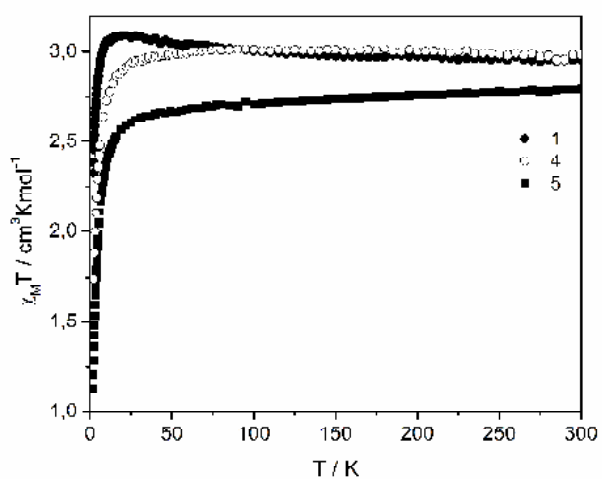


Figure S4. Plot of $\chi_M T$ vs T for **1** (●), **4** (○) and **5** (■) in the range 2 to 300 K in 0.1 T applied field.

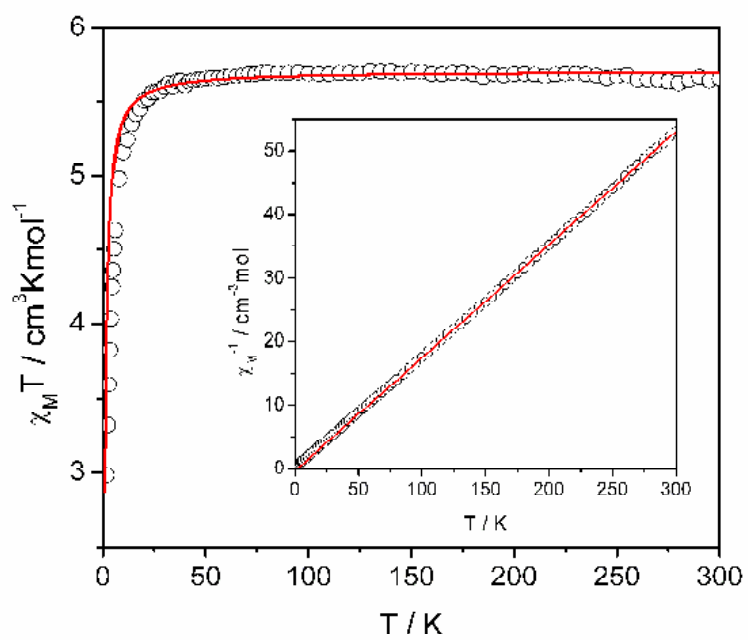


Figure S5. Plot of $\chi_M T$ vs T and χ_M^{-1} vs T (inset) for **3** in the range 1.8 to 300 K in 0.1 T applied field.