

Electronic Supplementary Information

A $\mu_{1,1}$ - or $\mu_{1,3}$ -carboxylate bridge makes the difference in the magnetic properties of dinuclear Mn^{II} compounds†

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Fig. S1 π -stacking and C–H $\cdots\pi$ interactions between dinuclear units of compound **2**.

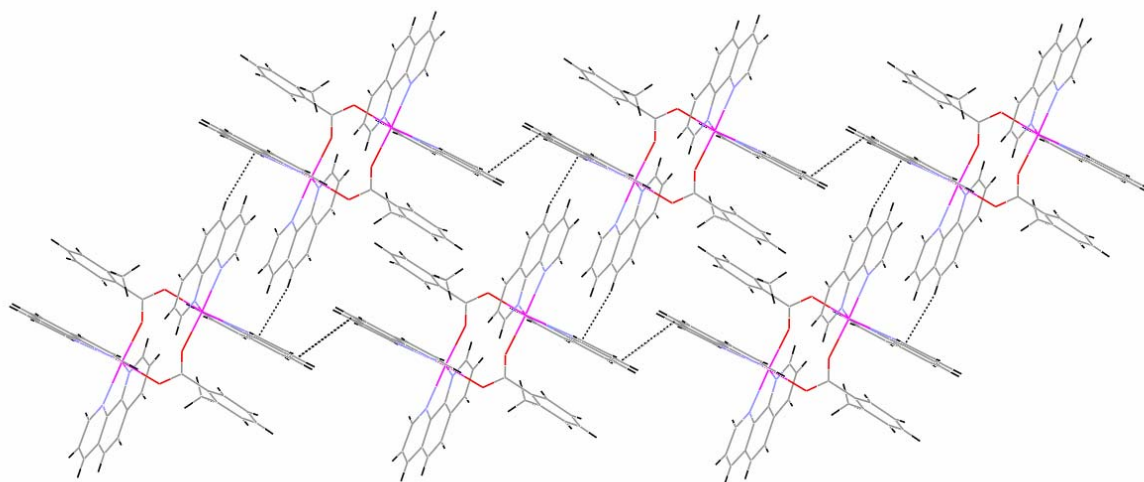


Fig. S2 π -stacking and C–H \cdots C–H interactions between dinuclear units of compound **4**.

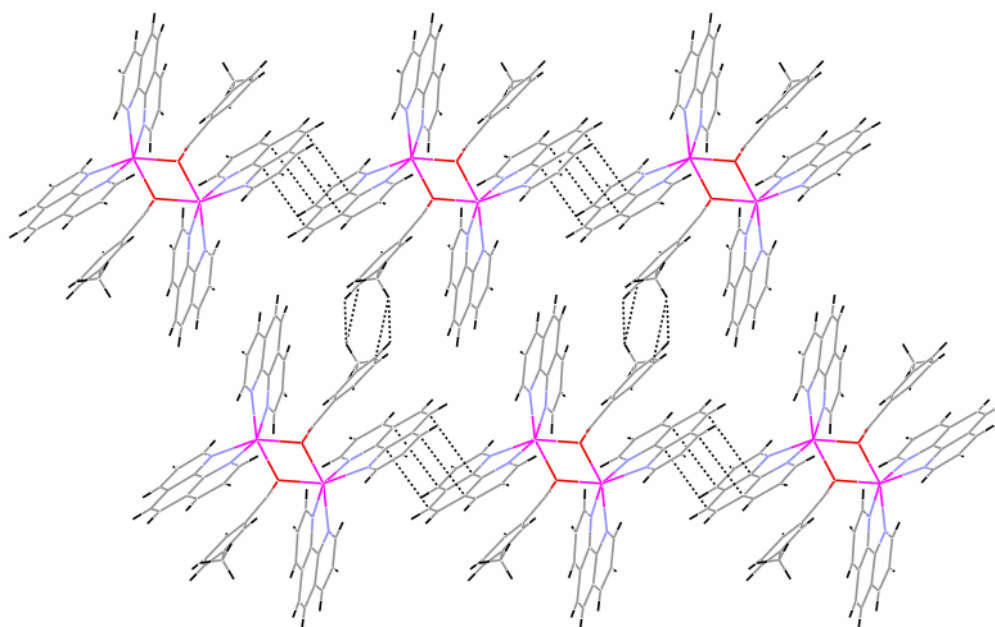


Fig. S3 Interaction between perchlorate anions and dinuclear units in compound **6**.

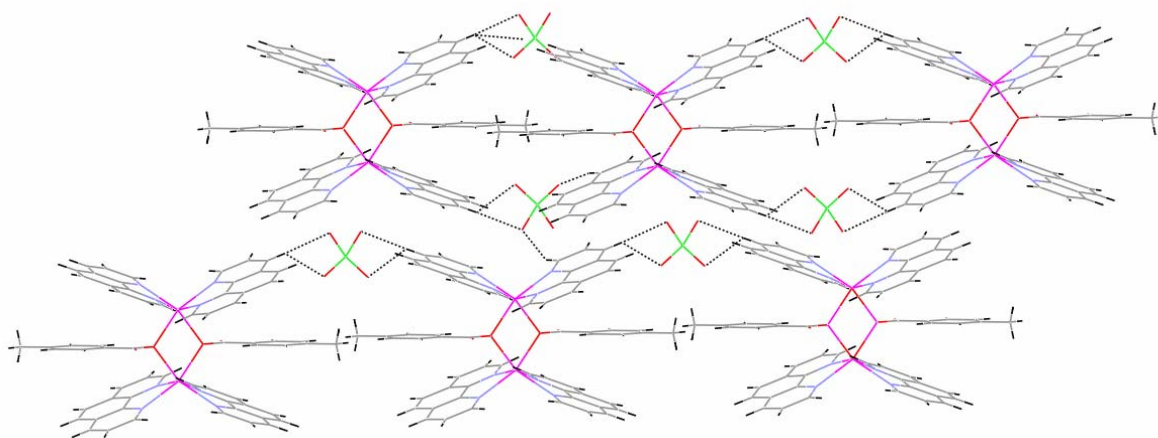


Fig. S4 Mn–O_b–Mn angle vs. Mn···Mn distance plot for compounds with planar (●) or non-planar (○) [Mn₂(μ-O)₂] core.

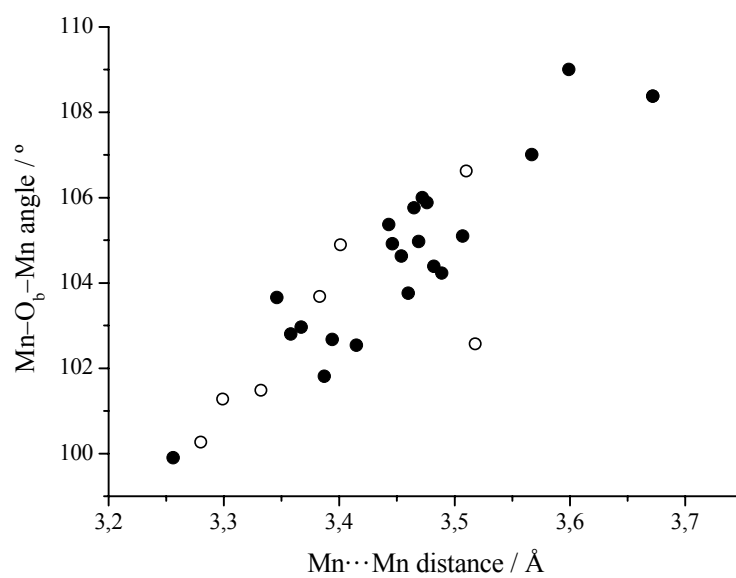


Fig. S5 Mn–O_b distance vs. Mn···Mn distance plot for compounds with planar (●) or non-planar (○) [Mn₂(μ-O)₂] core.

