

# Polymorphism in the nitrate salt of $[\text{Mn}(\text{acetylacetonate})_2(\text{H}_2\text{O})_2]^+$ ion

A. R. Biju and M. V. Rajasekharan \*

School of chemistry, University of Hyderabad, Hyderabad - 500046, India. E-mail: mvrsc@uohyd.ernet.in. Tel.: +91 40 23134857; fax: +91 40 23012460.

## SUPPLEMENTARY FIGURES

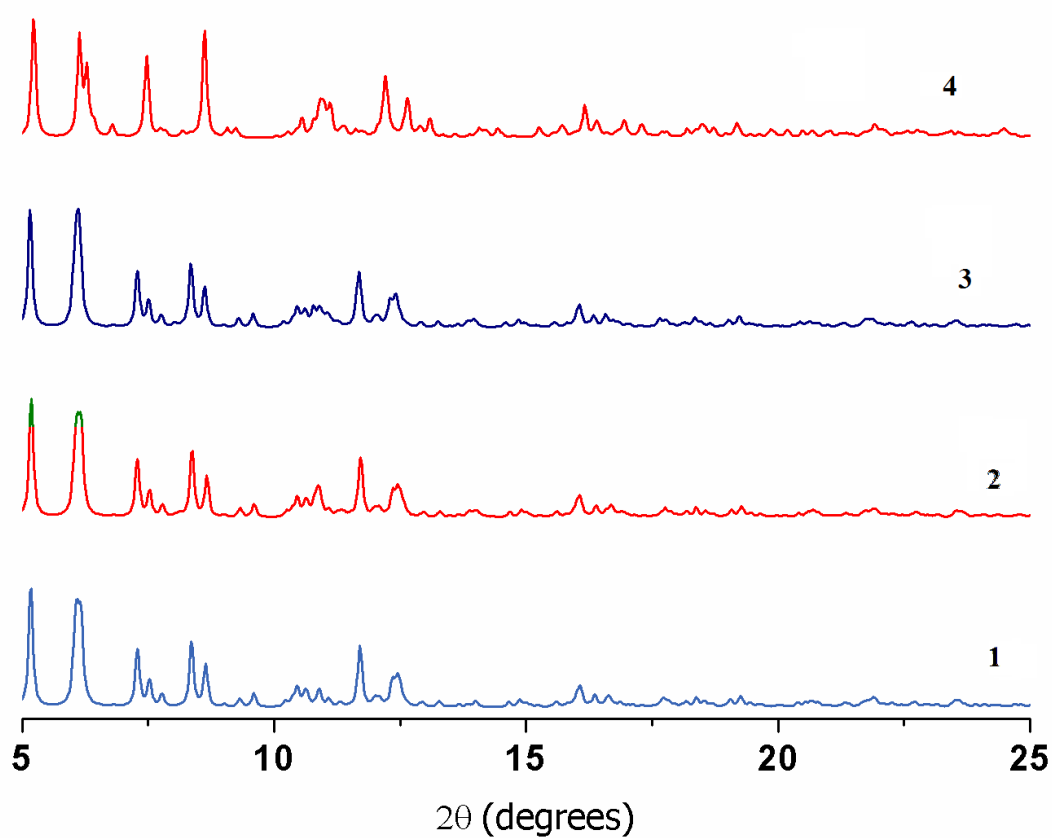


Figure S 10. Calculated X-ray powder diffraction patterns for crystal structures 1 – 4.

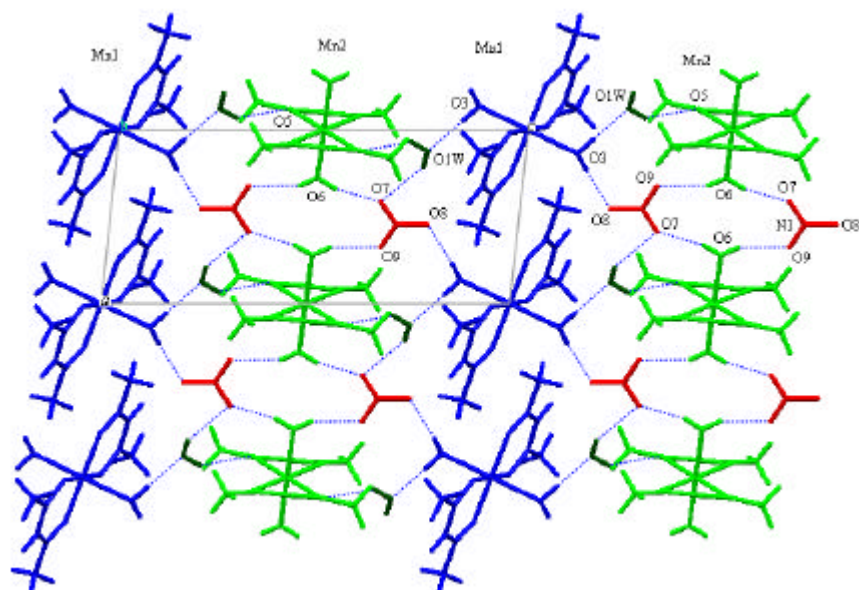


Figure S11. View, in the *ac*-plane, of the two-dimensional hydrogen bonded layers of **1**.

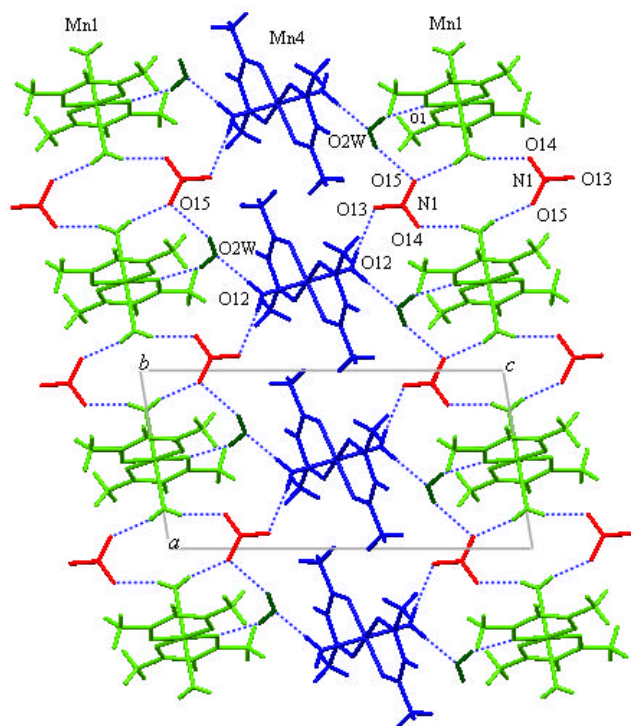


Figure S12. View, in the *ac*-plane, of two-dimensional hydrogen bonded layers of Mn1, Mn4 units of

**2**.

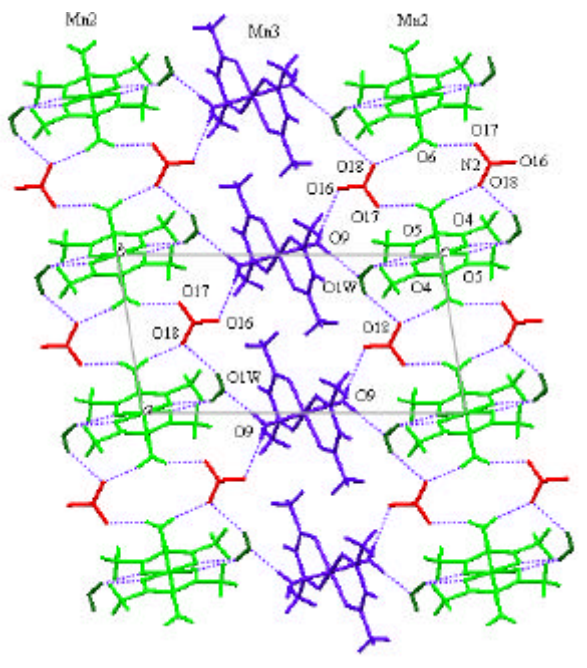


Figure S13. View, in the *ac*-plane, of the two-dimensional hydrogen bonded layers of Mn2, Mn3 units of **2**.

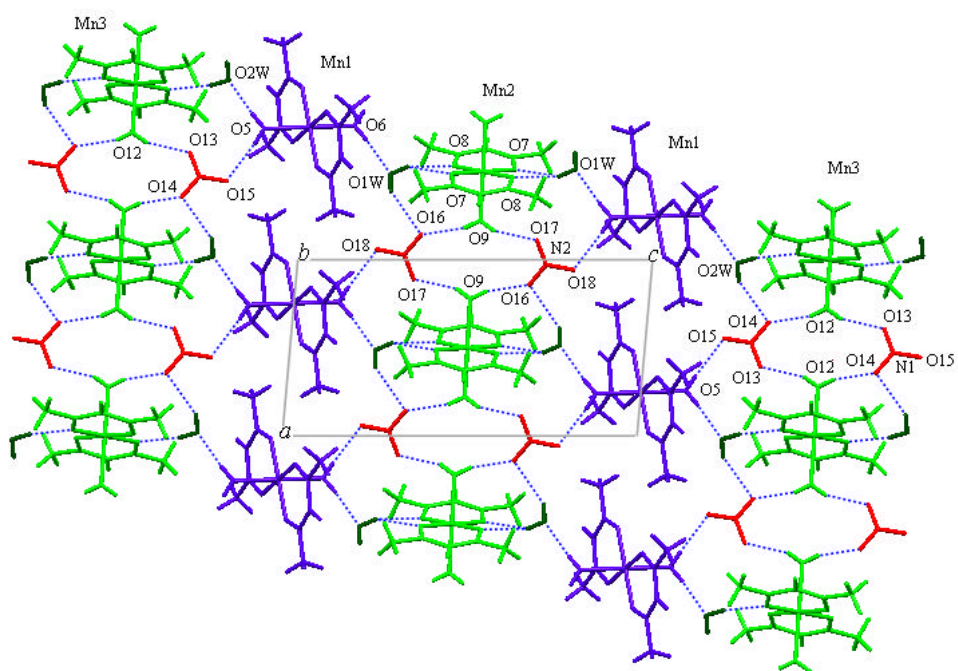


Figure S14. View, in the *ac*-plane, of the two-dimensional hydrogen bonded layers of **3**.

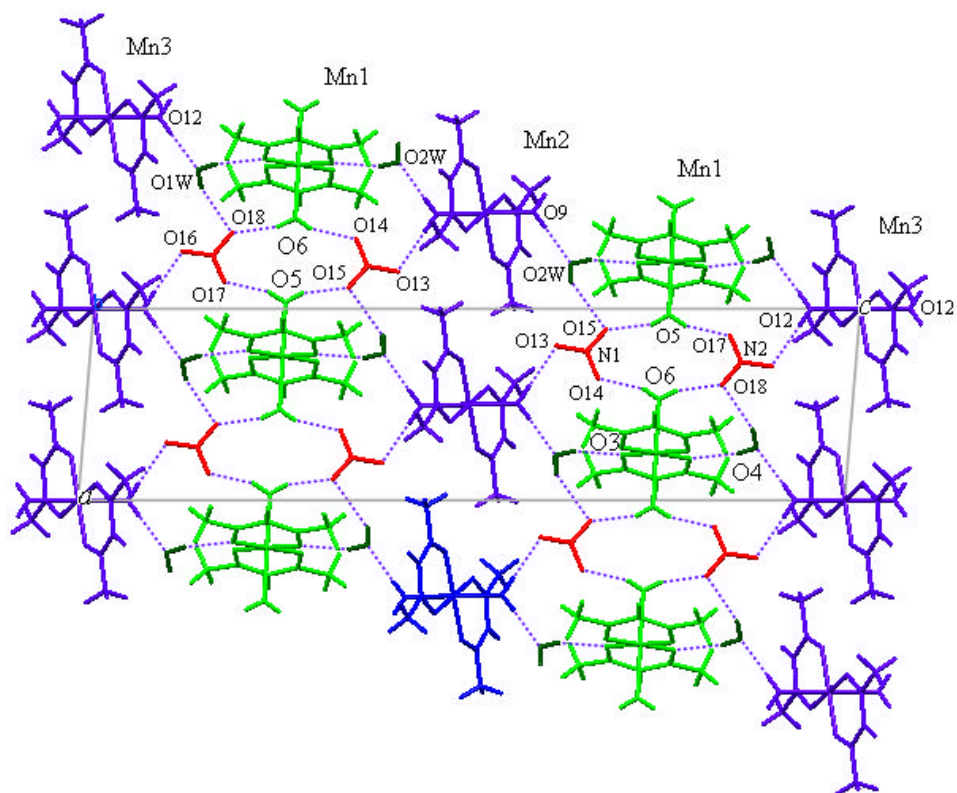


Figure S15. View, in the *ac*-plane, of the two-dimensional hydrogen bonded layers of **4**.

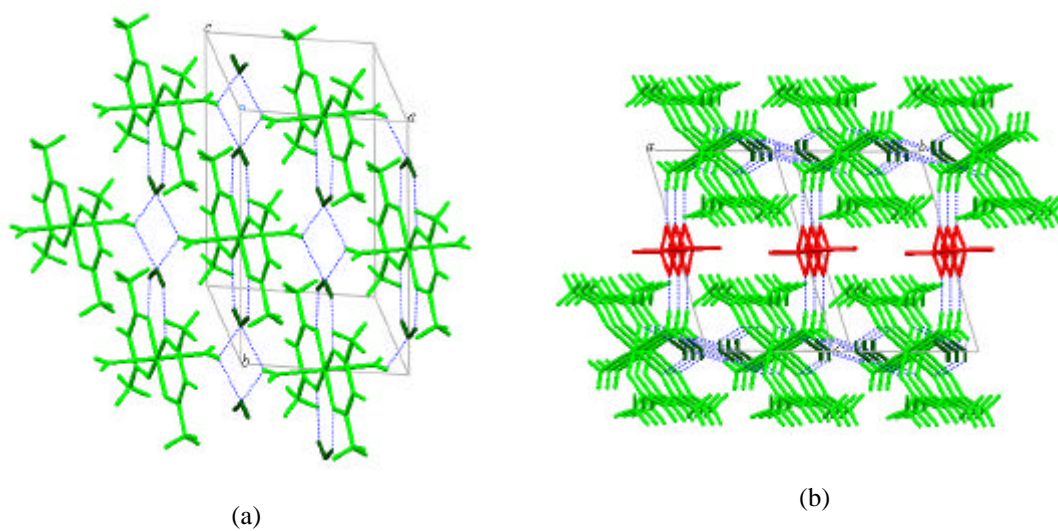


Figure S16 (a) A view of the two-dimensional hydrogen bonded layers of **5**. (b) Formation of three-dimensional hydrogen bonded networks in **5** through interconnection of the layers with  $\text{BF}_4$  anions which are disordered over two symmetry related positions.

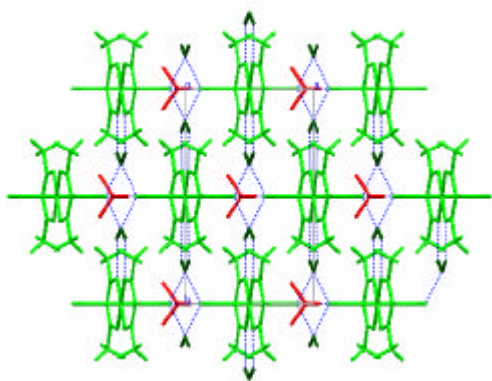


Figure S17. View, in the  $ab$ -plane, of the packing of **5**.