

Relating Highly Distorted Jahn-Teller MnO₆ to Colouration in Manganese Violet Pigments

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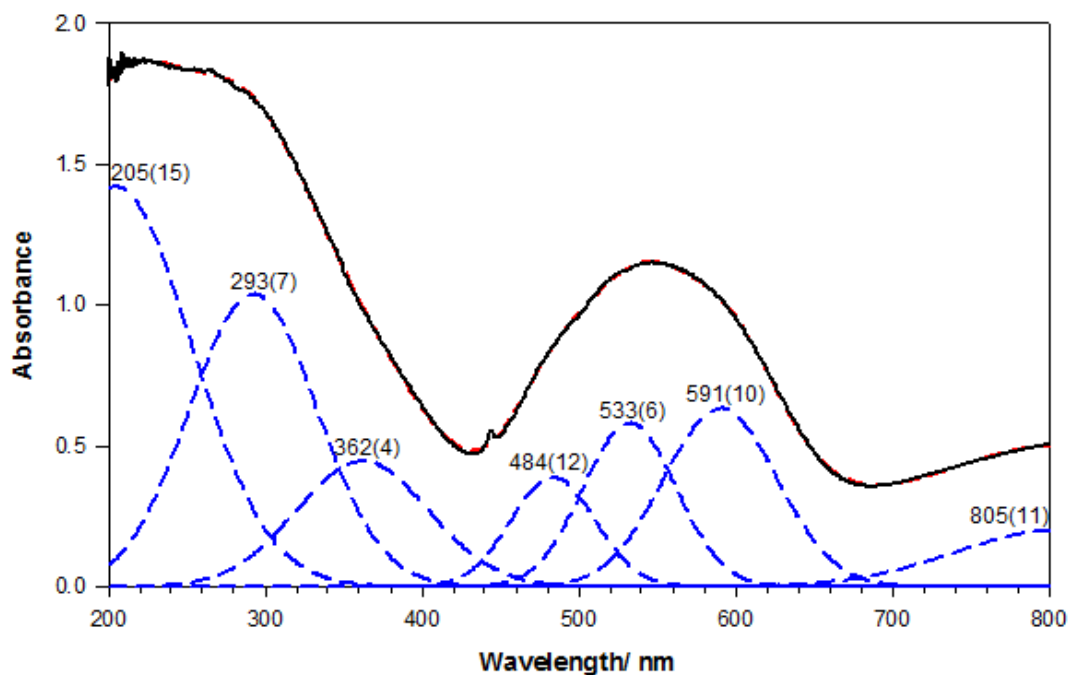


Fig. S1 UV-visible spectrum of the $\alpha\text{-NH}_4\text{Mn}_2\text{P}_2\text{O}_7$, showing raw data (—), fitted Gaussian bands (---) and sum of the fitted Gaussian bands (---). Peak positions are marked.

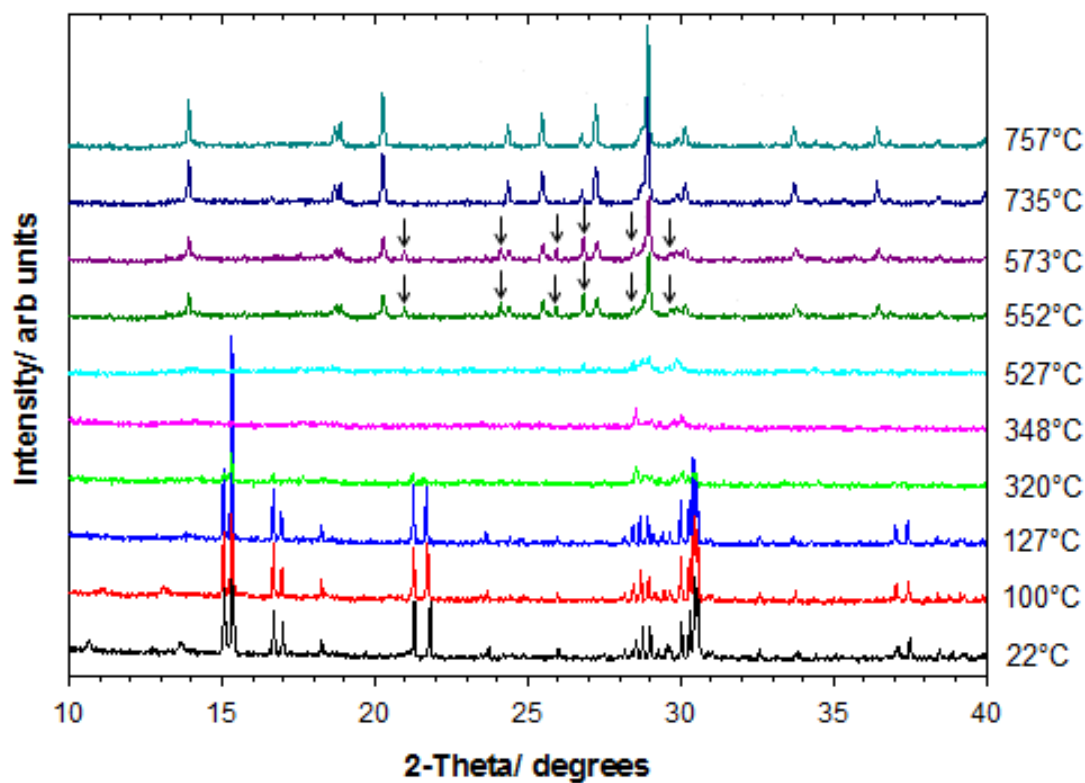


Fig. S2 Variable temperature XRD of the VM42 compound heated under nitrogen. Arrows indicate peaks that do not belong to the $\text{Mn}_2\text{P}_4\text{O}_{12}$ phase.

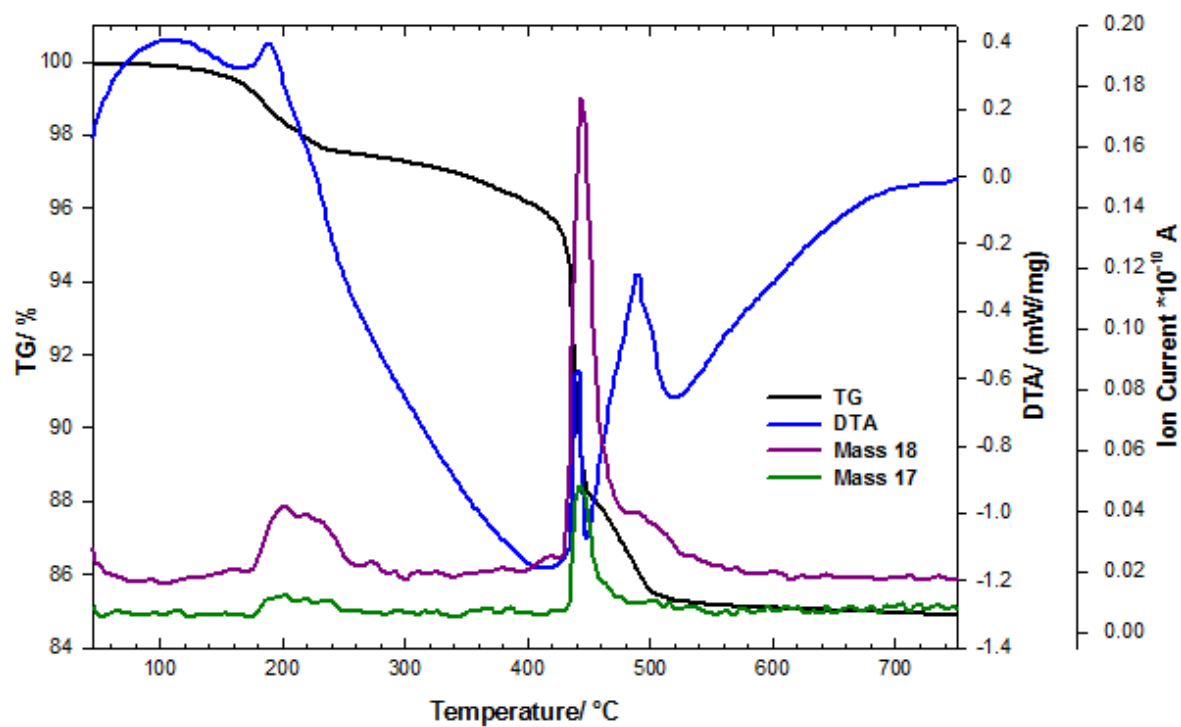


Fig. S3 TGA-MS Plot for VM42 heated under nitrogen