Supplementary Information

Table S1 Comparison of crystal parameters of compound **2** with the already reported compound

Crystal Parametres	**2**	**CCDC 826011**
Emprical formula	$C_{42}H_{36}Mn_3N_6O_{30}$	$C_{42}H_{36}Mn_3N_6O_{30}$
Formula weight	1269.59	1269.59
Temperature (K)	296(2)	293(2)
Crystal system	Trigonal	Trigonal
Space group	$P\bar{3}$	$P\bar{3}$
a/Å	14.6618(8)	14.6673(3)
b/Å	14.6618(8)	14.6673(3)
c/Å	6.3551(4)	6.36430(1)
α °	90	90
β°	90	90
γ °	120	120
Volume (Å^3)	1183.12(1)	1185.72(4)
Z	1	1
Calculated density (g/cm^3)	1.782	1.778
Absorption coefficient (mm^{-1})	0.901	0.899
F(000)	645	645
Crystal size (mm^3)	0.31×0.22×0.12	0.20×0.10×0.10
Index ranges	-16<=h<=16, -16<=k<=16, -7<=l<=7	-18<=h<=19, -19<=k<=19, -8<=l<=8
Reflections collected	28974	1808
Unique data(R_{int})	1249	1564
Refinement method	Full-matrix least-squares on F^2	Full-matrix least-squares on F^2
Data / restraints / parameters	1249/0/123	1808 / 2 / 135
Goodness-of-fit on F^2	1.055	1.046
Final *R*indices[$I>2\sigma$ (I)] *R*1/ *wR*2	0.0227/0.0574	0.0330/0.0840

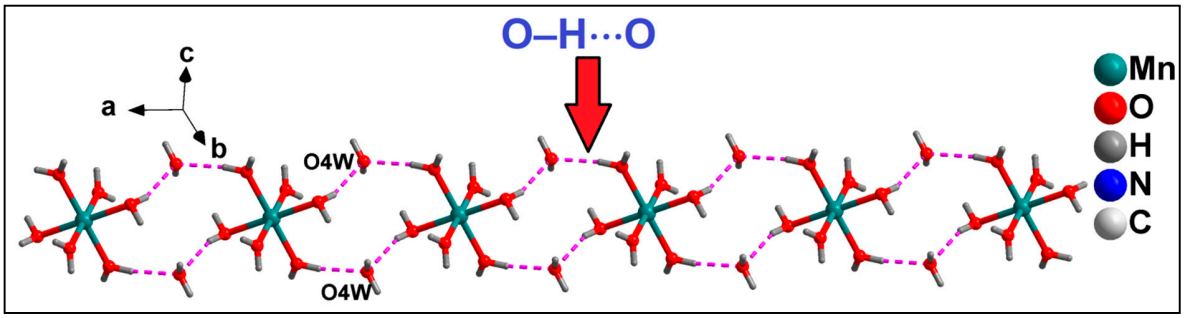


Figure S1 Supramolecular 1D Chain of compound **1** assisted by the lattice water molecule.

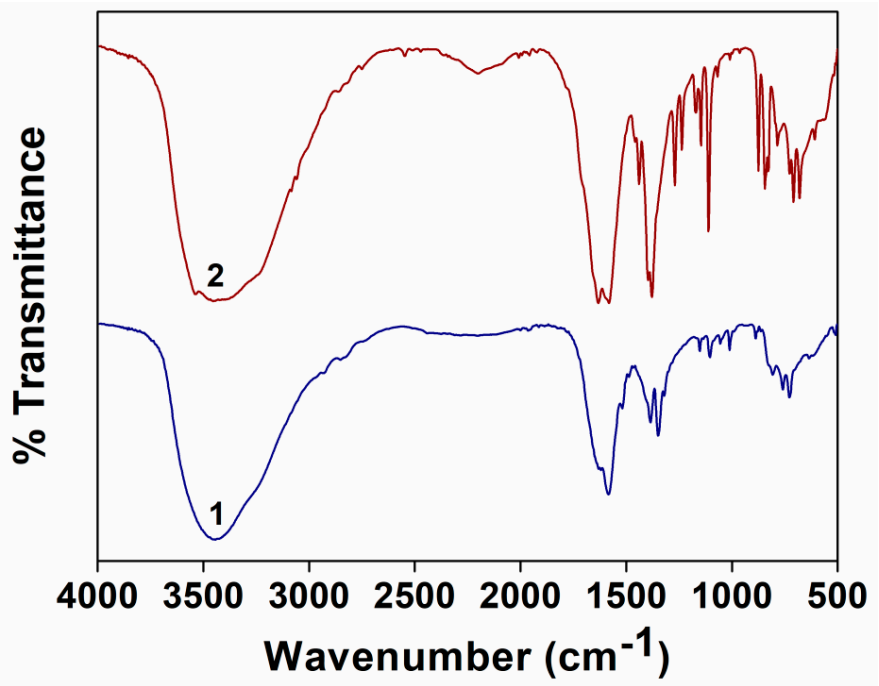
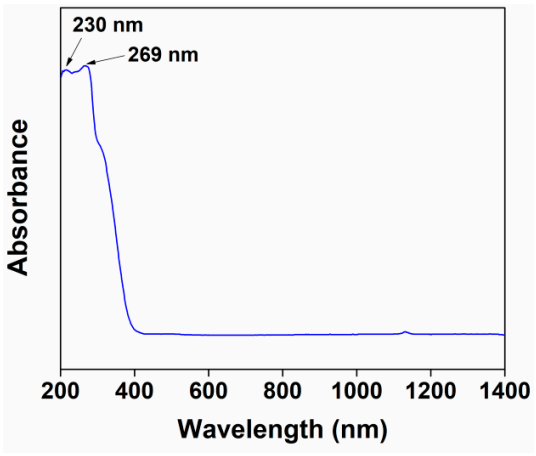


Figure S2 FT-IR spectra of the compounds **1** and **2**.



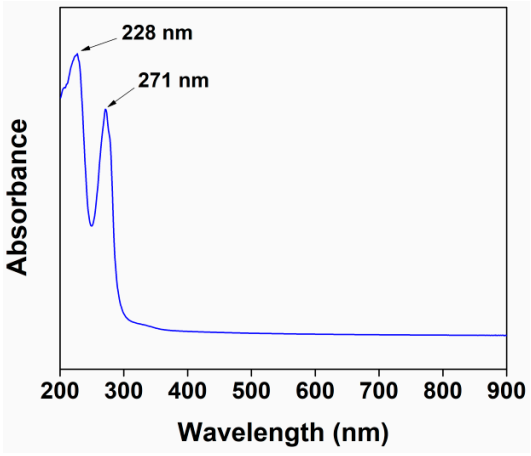


Figure S3(**a**) UV-Vis-NIR spectrum of **1** (**b**) UV-Vis spectrum of **1**.

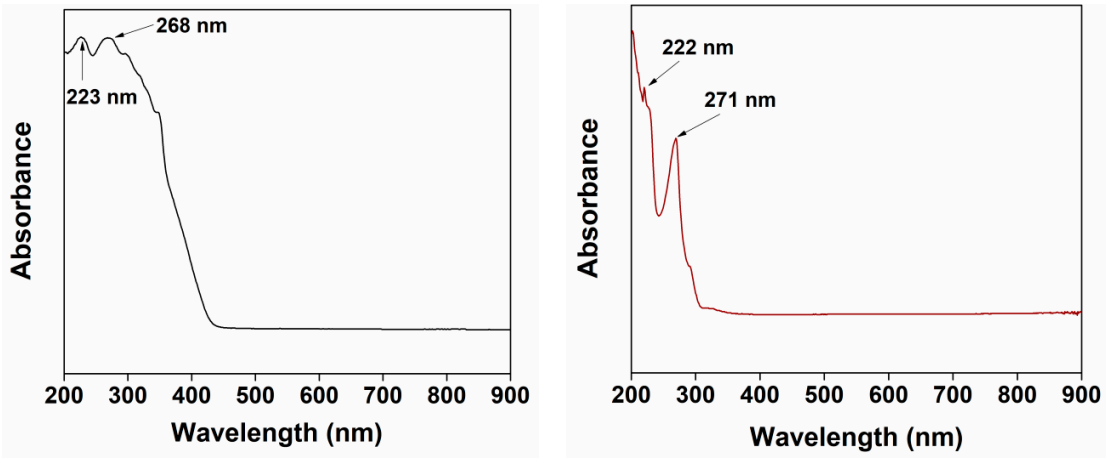


Figure S4(**a**) UV-Vis-NIR spectrum of **2** (**b**) UV-Vis spectrum of **2**.

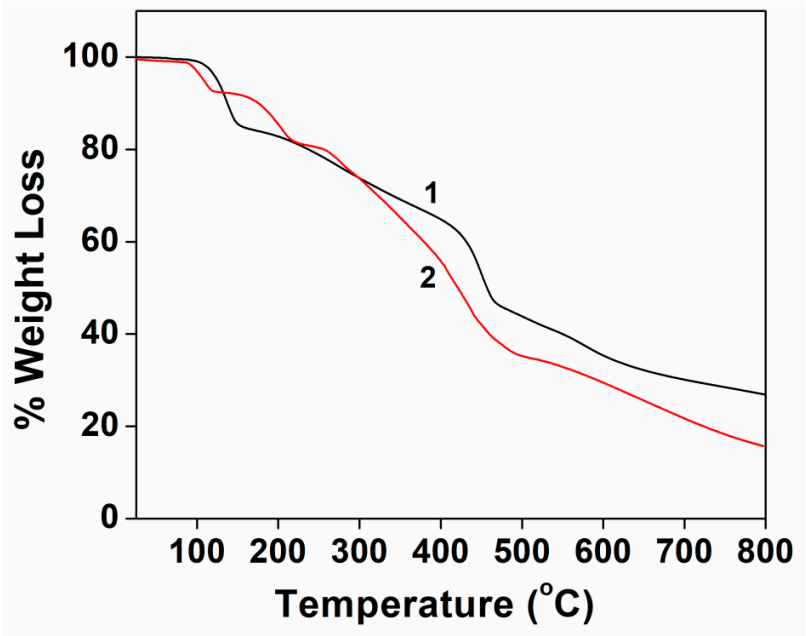


Figure S5 Thermogravimetric curves of the compounds **1** and **2**.