Supporting Information

Long-Lived Spin-Triplet Excitons in Manganese Complexes for Room-Temperature Phosphorescence

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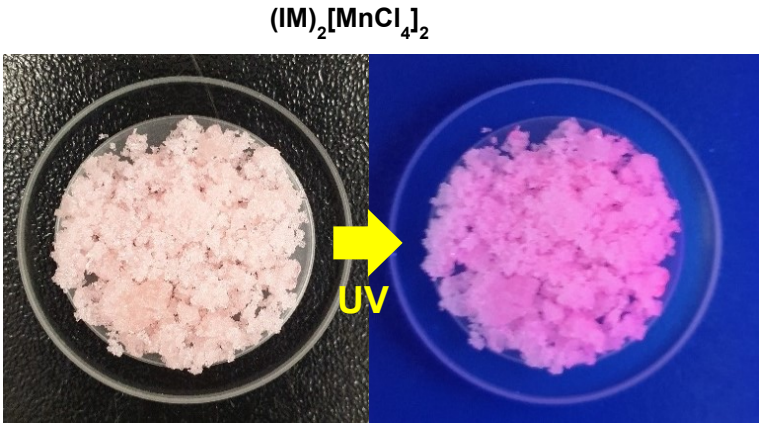

Figure S1. The photographs of the weak red emissions from the $(IM)_2[MnCl_4]_2$ single crystal powders under UV light with λ_{ex} = 365 nm.

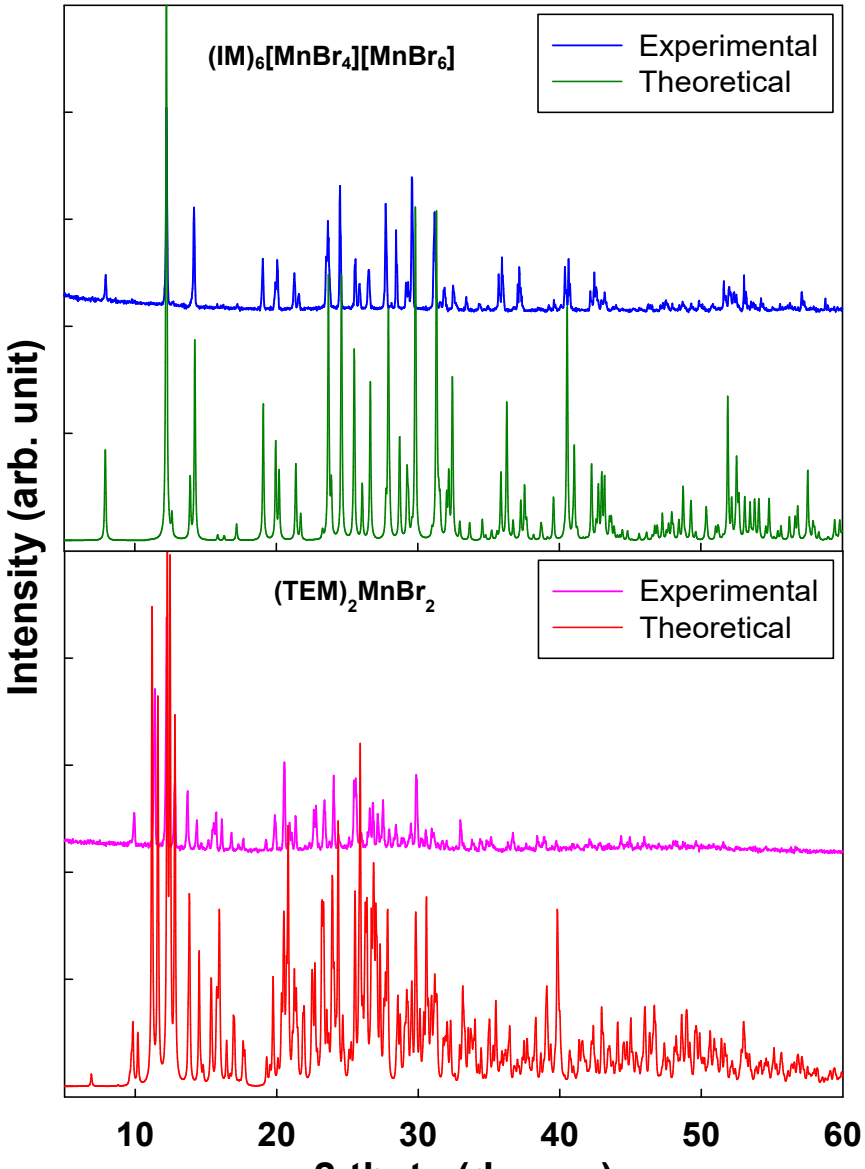
(IM)6[MnBr4][MnBr6]
Experimental
Theoretical
(TEM)2MnBr2
Experimental
Theoretical
Intensity (arb. unit)
10
20
30
40
50
60

Figure S2. Powder X-ray diffraction and the simulated pattern from SCXRD for the $(IM)_6[MnBr_4][MnBr_6]$ and $(TEM)_2MnBr_4$ compounds.