

ESI

Two manganese chloride organic-inorganic hybrid compounds show strong
luminescence and switchable phase transition and dielectric anomaly

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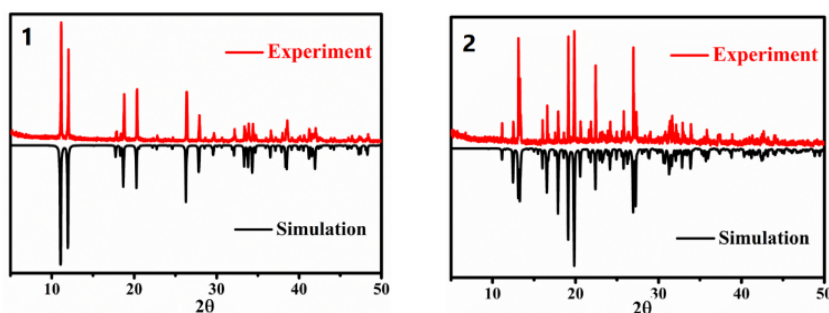


Figure S1 P-XRD patterns of compounds **1** and **2** with the simulated one in black and the experimental one in red.

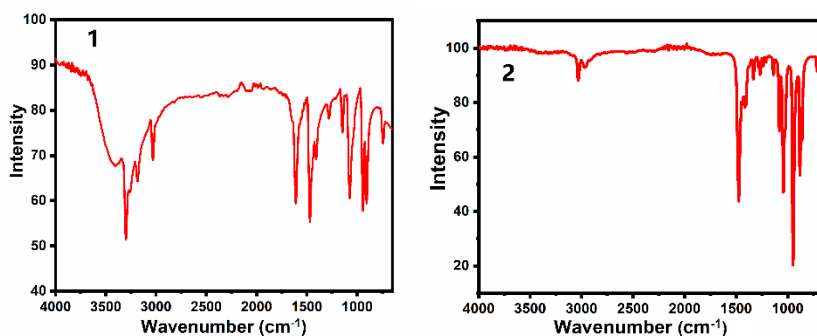


Figure S2 Infrared spectra of compounds **1** and **2**

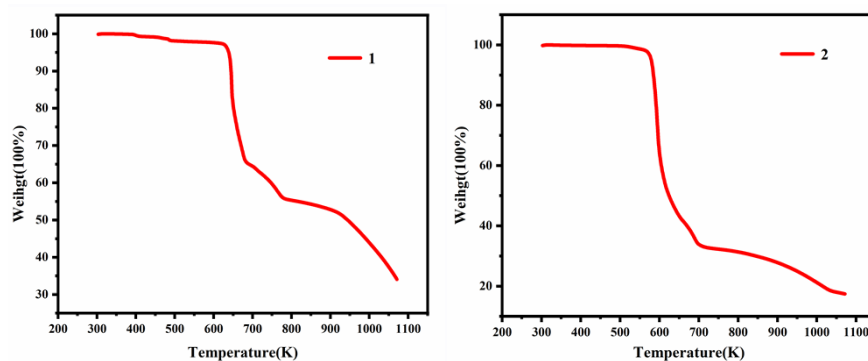


Figure S3. TG curves of solid compounds **1** and **2**

Table S1 The bond lengths [\AA] and angles [$^\circ$] of compound **1** at 298 K.

label	Lengths [\AA]	label	Angles [$^\circ$]
Mn(1)-Mn(1)	3.1975(10)	Mn(1)-Mn(1)-Mn(1)	179.89(4)
Mn(1)-Cl(2)	2.5236(12)	Cl(2)#1-Mn(1)-Cl(1)#1	84.84(3)
Mn(1)-Cl(1)	2.5657(9)	Cl(2)-Mn(1)-Cl(1)#3	94.91(3)
N(1)-N(2)	1.453(6)	Cl(2)-Mn(1)-Cl(1)	85.12(3)
		Cl(2)#1-Mn(1)-Cl(1)	95.12(4)
		Cl(1)#2-Mn(1)-Cl(1)	84.83(4)
		Cl(1)#3-Mn(1)-Cl(1)	179.94(3)

Table S2 The bond lengths [\AA] and angles [$^\circ$] of compound **2** at 298 K.

label	Lengths [\AA]	label	Angles [$^\circ$]
Mn(1)-Cl(3)	2.3591(13)	Cl(3)-Mn(1)-Cl(1)	109.36(6)
Mn(1)-Cl(1)	2.3695(13)	Cl(3)-Mn(1)-Cl(2)	108.03(5)
Mn(1)-Cl(2)	2.3738(13)	Cl(1)-Mn(1)-Cl(2)	107.71(6)
Mn(1)-Cl(4)	2.3761(14)	Cl(3)-Mn(1)-Cl(4)	113.06(5)
		Cl(1)-Mn(1)-Cl(4)	110.37(5)
		Cl(2)-Mn(1)-Cl(4)	108.13(5)