

SUPPLEMENTARY MATERIAL

Dinuclear Lanthanide(III) Complexes Showing Single-Molecule Magnet Behaviour and Optical Property

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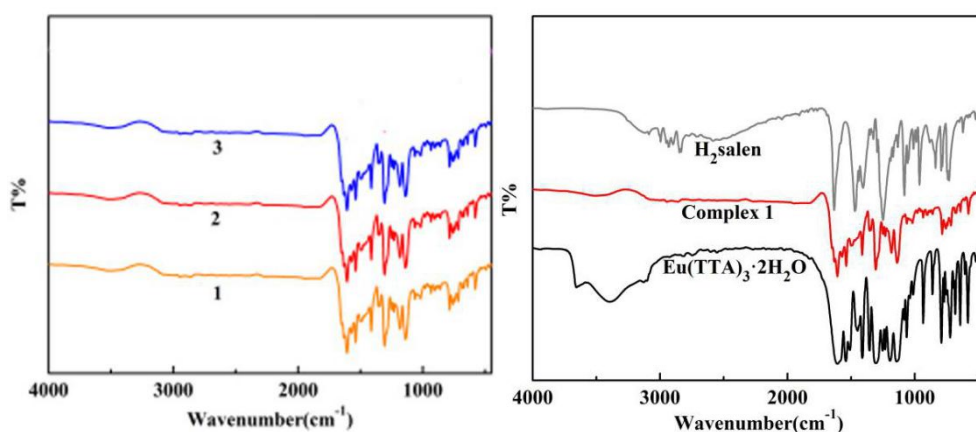


Fig. S1 Infrared spectra of complex 1-3, H₂salen and Eu(TTA)₃·2H₂O

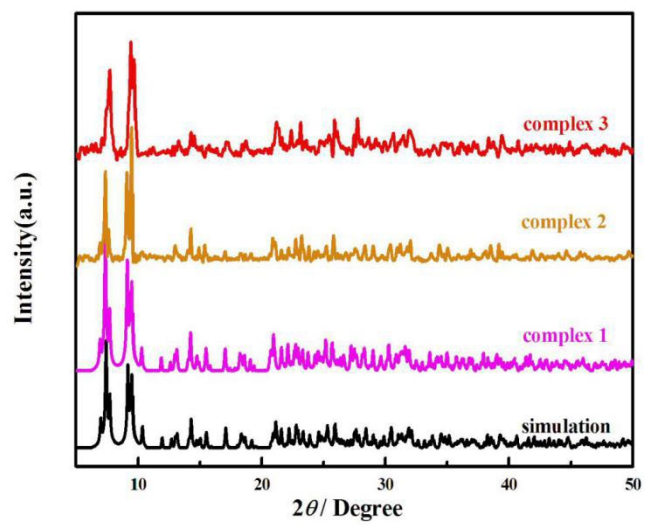


Fig. S2 PXR D patterns for 1-3

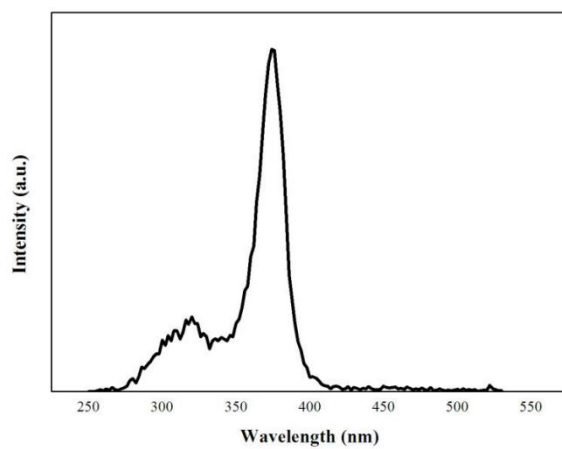


Fig. S3 The luminescence excitation spectrum for complex 1 in the solid state at room temperature.

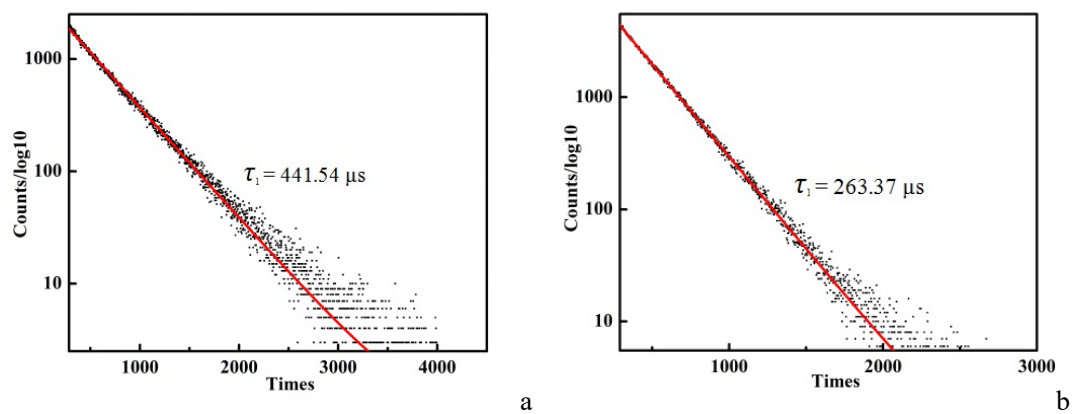


Fig. S4 a) Luminescence decay profiles for complex **1** in solid state; b) Luminescence decay profiles for complex **1** in CH_3OH solution

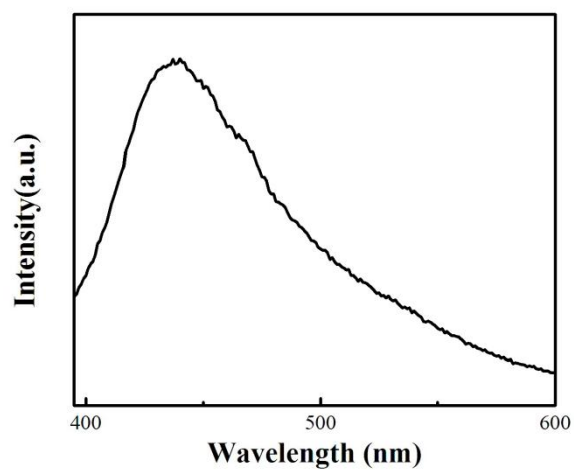


Fig. S5 Visible emission spectrum of complex **3** in the solid state at room temperature.

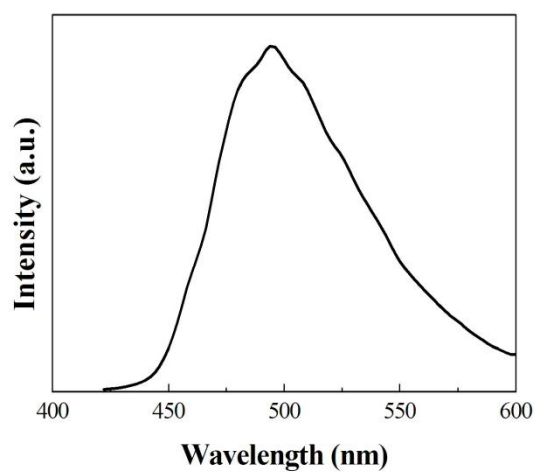


Fig. S6 Phosphorescence spectrum of $[\text{Gd}_2\text{L}_2(\text{TTA})_4(\text{OAc})_2]$ at 77 K

Table S1. Selected bond distances (\AA) for **1** and **2**

1			
Eu(1)–O(1)	2.289(4)	Eu(1)–O(3)	2.385(4)
Eu(1)–O(5)	2.343(4)	Eu(1)–O(7)	2.390(4)
Eu(1)–O(6)	2.378(5)	Eu(1)–O(62)	2.390(4)
Eu(1)–O(5a)	2.512(4)	Eu(1)–O(4)	2.563(4)