

Electronic Supporting information (ESI†)

One-pot Synthesis of 2-thenoyltrifluoroacetone Surface Functionalised SrF₂:Eu³⁺ Nanoparticles: Trace Level Detection of Water†

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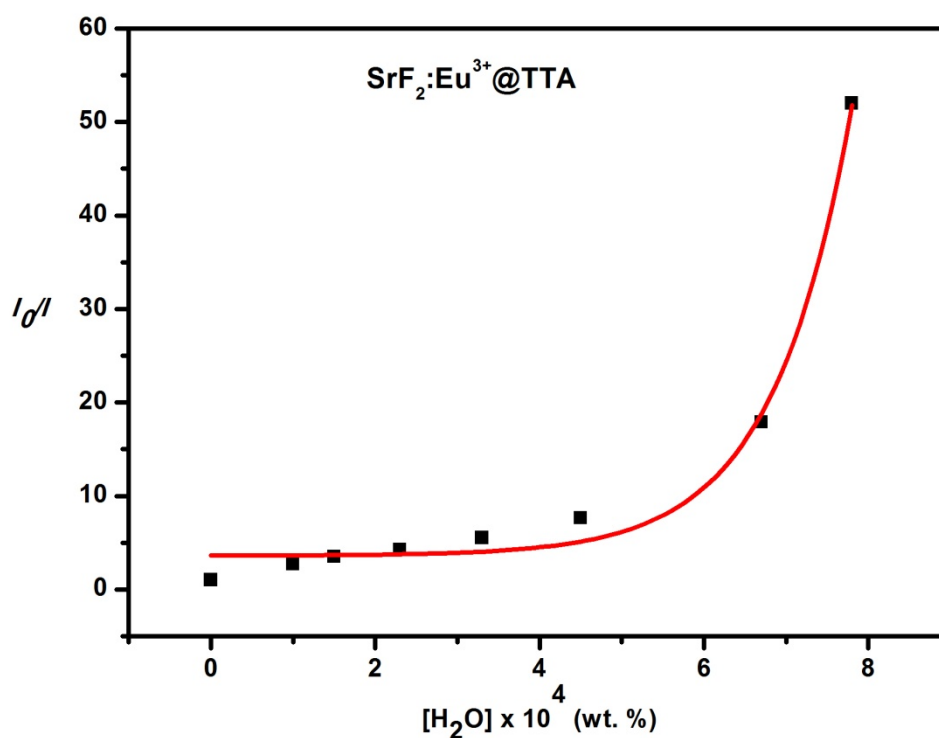


Fig S1: Stern-Volmer plot of I₀/I vs [Q] of SrF₂:Eu³⁺@TTA nanoparticles.

Table S1: Asymmetric ratio of the electric and magnetic dipole transition of the emission spectra of SrF₂:Eu³⁺@TTA at different concentration of water in THF solvent.

Sl. No.	Weight % of water in THF x 10 ⁴	Integrated area		Asymmetric ratio, I_{AS} (A_e/A_m)
		Magnetic dipole transition, A_m (591 nm)	Electric dipole transition, A_e (615 nm)	
1	0	383719	771277	2.01
2	1	145734	294703	2.02
3	1.5	109064	220432	2.02
4	2.3	88553	183399	2.07
5	3.3	69660	141583	2.03
6	4.5	55661	102804	1.84
7	6.7	21037	44308	2.10
8	7.8	7629	16949	2.22