

**Electronic Supporting Infrmations (ESI)**

**Luminescence and photocatalytic studies of Sm<sup>3+</sup> ion doped SnO<sub>2</sub> nanoparticles**

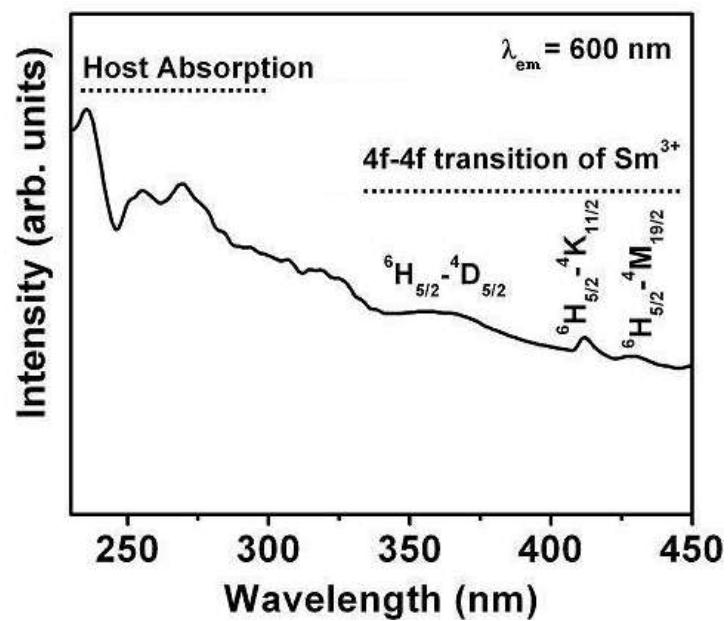
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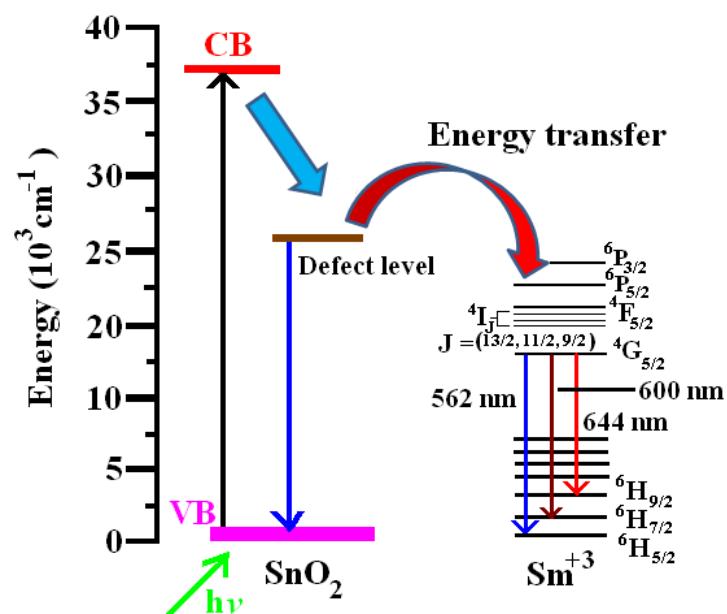
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**Table S1:** Various combination ratios for the photocatalysed reaction of the dyes (EV/BG) with the nanomaterials.

Run	Volume of Dye (ml)		Volume of nanoparticles(ml)	Volume of water
	EV/BG			
1	1		0	3
2	1		0.5	2.5
3	1		1.0	2.0
4	1		1.5	1.5



**Fig. S1:** Excitation spectrum of  $\text{SnO}_2:\text{Sm}^{3+}$  (5 at.%) nanoparticles annealed at 900 °C.



**Scheme S1:** A schematic diagram showing the energy transfer from host ( $\text{SnO}_2$ ) to dopant ( $\text{Sm}^{3+}$ ).