

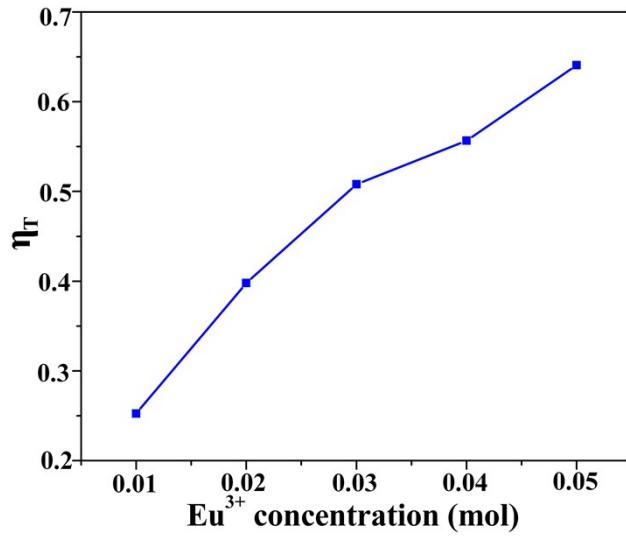
**Electronic Supplementary Information (ESI)**

**Shape controllable synthesis and multicolour fluorescence of lanthanide doped Vernier yttrium oxyfluoride**

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**Fig. S1** Energy transfer efficiency from  $\text{Tb}^{3+}$  to  $\text{Eu}^{3+}$  in V-YOF:0.03Tb<sup>3+</sup>,xEu<sup>3+</sup> ( $x = 0\text{--}0.05$ ) samples under the excitation of 378 nm.