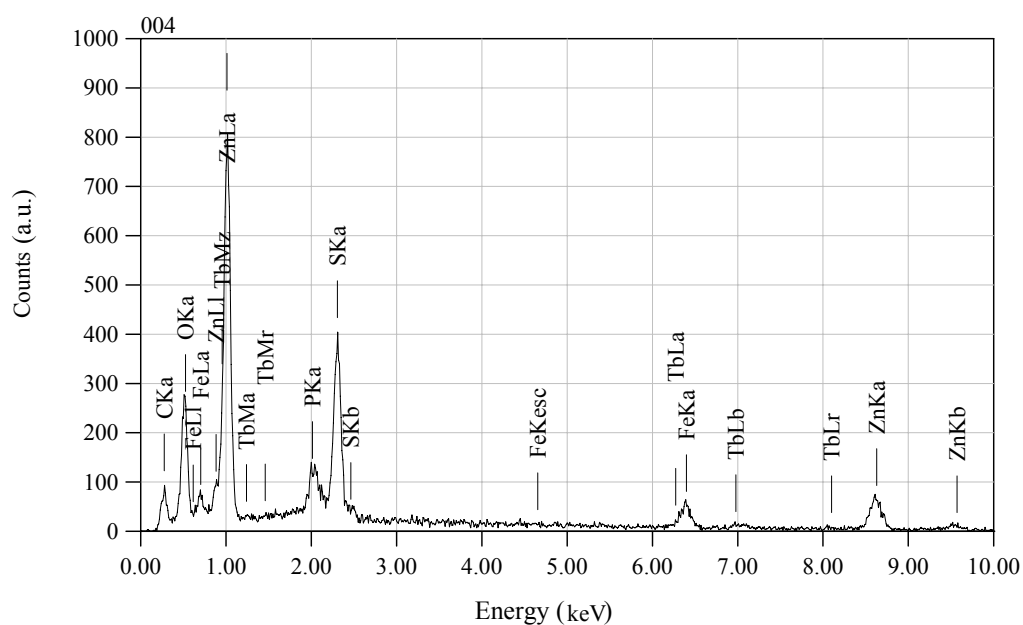


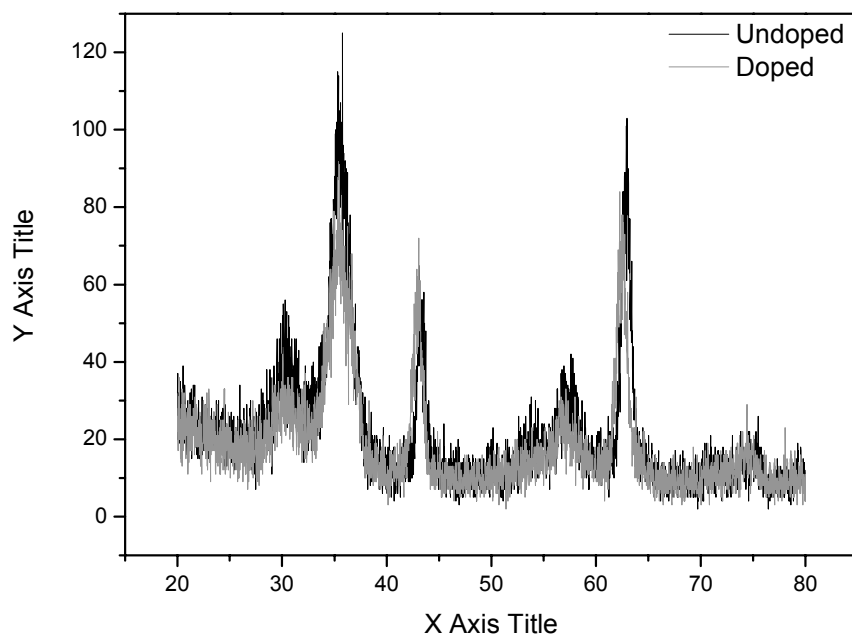
## Supplementary Information

### Tb-doped Iron Oxide: Bifunctional Fluorescent and Magnetic Nanocrystals

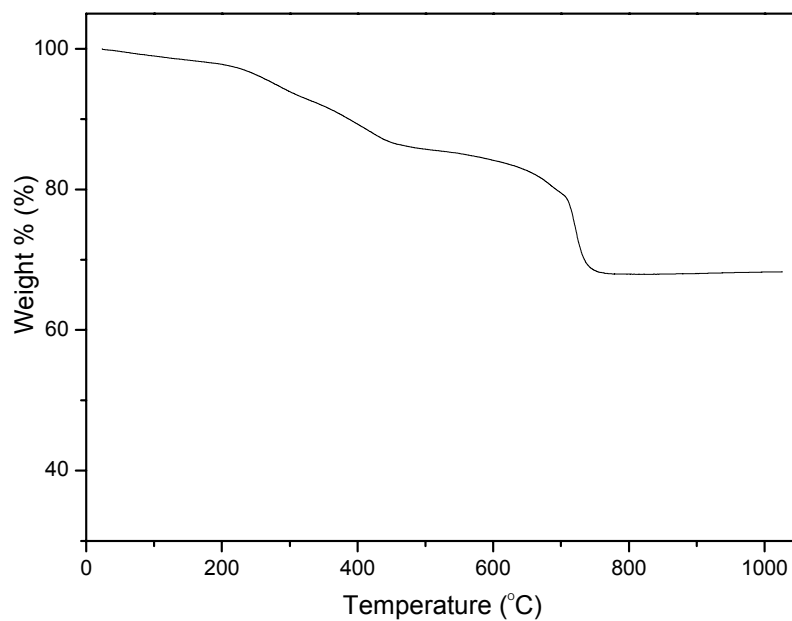
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**Fig. S1** Energy dispersive X-ray spectroscopy (EDS) analysis of ZnS coated Tb-doped  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> nanocrystals.



**Fig. S2** XRD pattern of undoped and doped iron oxide nanocrystals.



**Fig. S3.** Percentage weight loss of the as-prepared Tb-doped iron oxide nanocrystal using TGA method in N<sub>2</sub> with a heating rate of 10 °C/min.