

## Electronic Supplementary Information

# Heterostructured ZnFe<sub>2</sub>O<sub>4</sub>/TiO<sub>2</sub> nanocomposites with highly recyclable visible-light-responsive photoactivity for bisphenol A degradation

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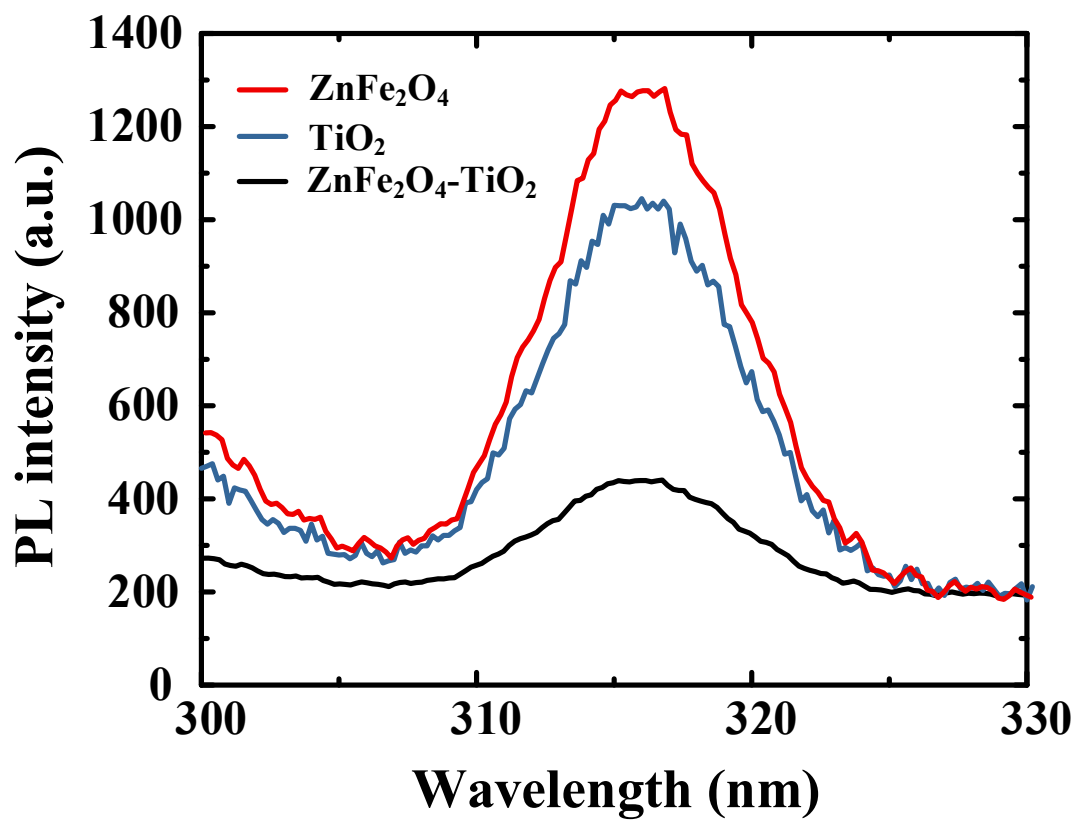
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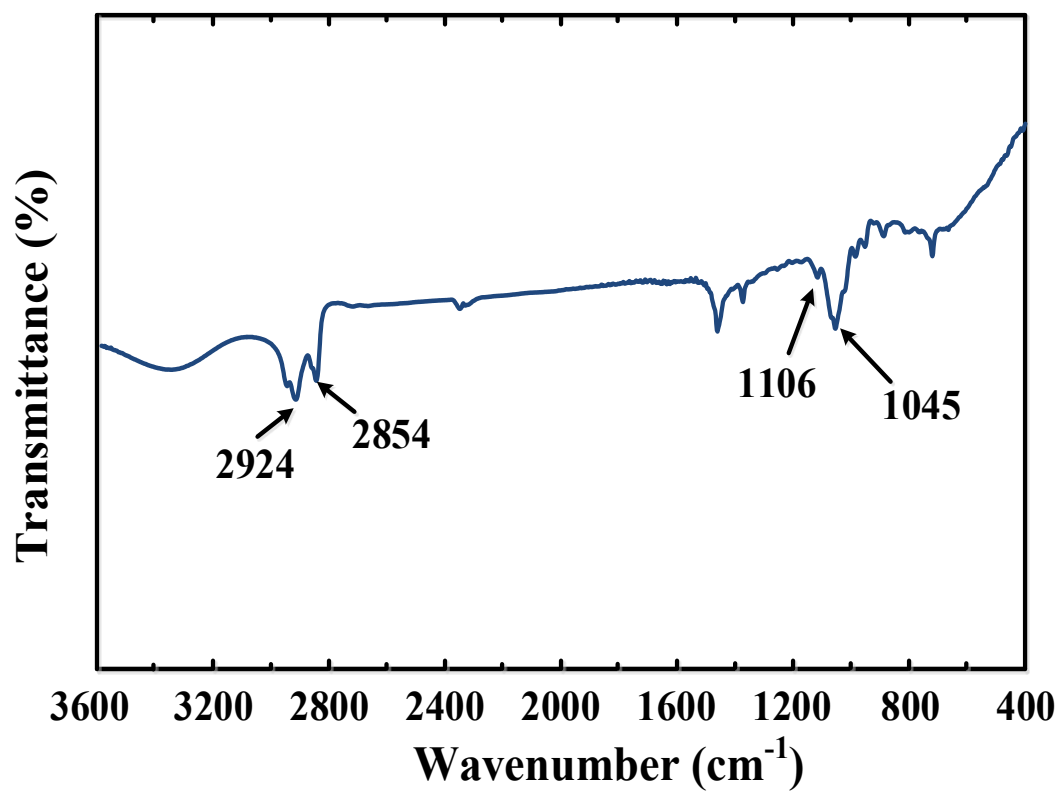
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**Table S1.** The mass weight of elements of ZnFe<sub>2</sub>O<sub>4</sub>-TiO<sub>2</sub> nanocomposites obtained from EDS spectra.

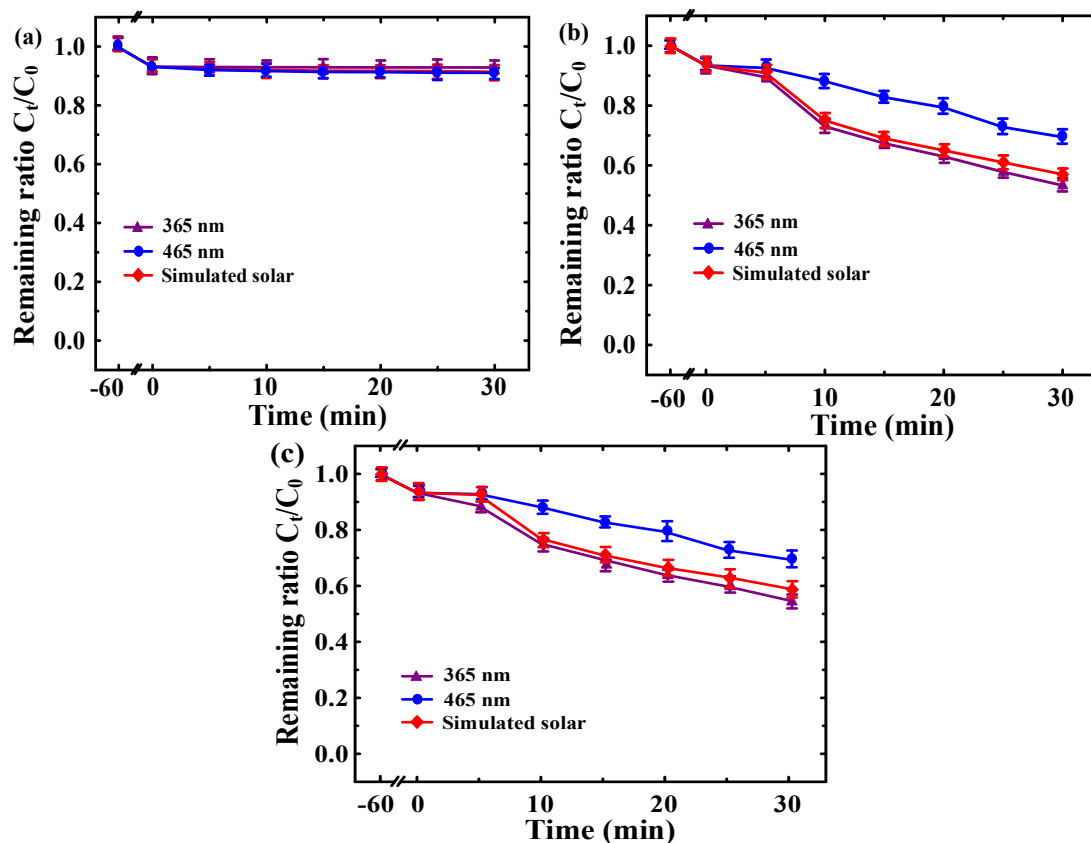
Element	atomic weight	intensity	Mass [%]
Oxygen (O)	16.00	64915	40.16
Titanium (Ti)	47.87	293360	59.10
Iron (Fe)	55.85	4343	0.47
Zinc (Zn)	65.38	2190	0.27



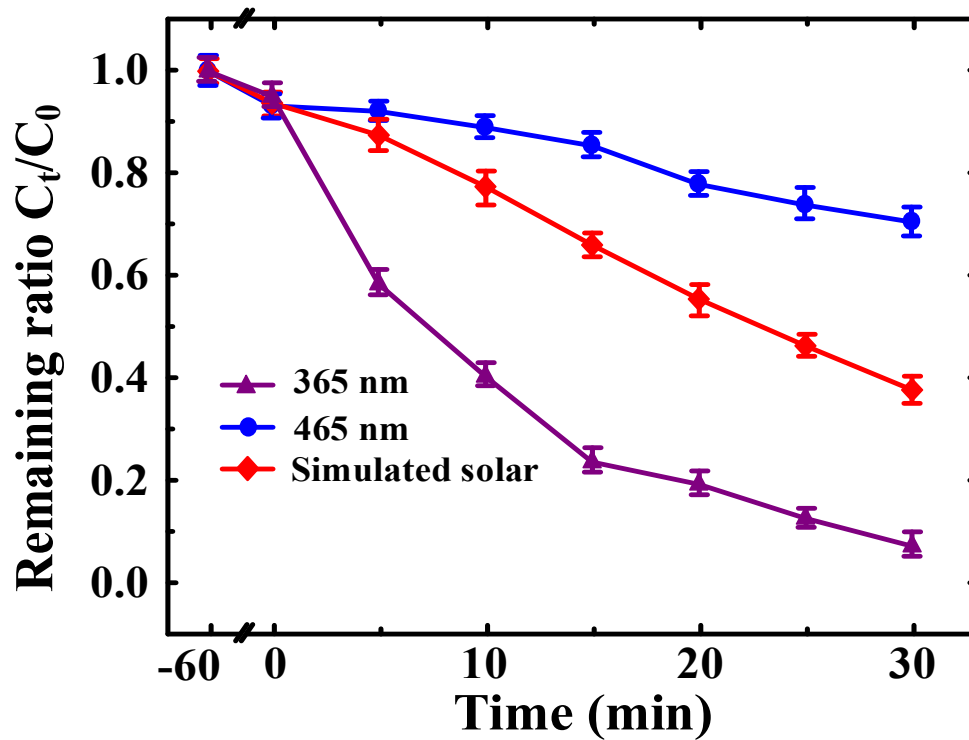
**Fig. S1.** Photoluminescence spectra of ZnFe<sub>2</sub>O<sub>4</sub>, TiO<sub>2</sub> and 1 wt% ZnFe<sub>2</sub>O<sub>4</sub>-TiO<sub>2</sub> at excitation wavelength ( $\lambda_{\text{ex}}$ ) of 285 nm.



**Fig. S2.** FT-IR spectra of octanol used for the preparation of ZnFe<sub>2</sub>O<sub>4</sub>-TiO<sub>2</sub> nanocomposites using non-aqueous hydrothermal method.



**Fig. S3.** The photodegradation of bisphenol A by (a) as-prepared  $ZnFe_2O_4$ , (b) as-received ST-01  $TiO_2$  and (c) physical mixture of 1 wt%  $ZnFe_2O_4$  with  $TiO_2$  in the presence of different light sources including 365 nm UV light, solar simulator at AM 1.5 and 465 nm visible light.



**Fig. S4.** The photodegradation of bisphenol A by Degussa P25 TiO<sub>2</sub> in the presence of different light sources including 365 nm UV light, solar simulator at AM 1.5 and 465 nm visible light.