Supporting Information

Synthesis of TiO$_2$@α-Fe$_2$O$_3$ core-shell heteronanostructures by thermal decomposition approach and their application towards sunlight driven photodegradation of Rhodamine B

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Figure S1: The EDS patterns of (a) CTFO-100 and (b) CTFO-150 observed during the TEM measurements
Figure S2: UV-visible spectral results on photodegradation of rhodamine B using pure SiO$_2$ and SiO$_2$@α-Fe$_2$O$_3$ as the catalysts.

Figure S3: UV-visible spectral results on the photocatalytic degradation of RhB by CTFO-100 indicating its recyclability.