In situ coupling of Ti$_2$O with rutile TiO$_2$ as a core-shell structure and the photocatalysis performance

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Fig.S1 The UV-Vis spectrum of the filter.
Fig. S2 (a). UV-Vis absorption spectra of as-synthesized samples at 580 °C for 2-10 h.

(b). The relative content of Ti$_2$O in the selected samples.
Fig.S3 The evolution of absorbance with the irradiation time of sample 610-6.