

Enhanced photocatalytic activities of the heterostructured upconversion photocatalysts with cotton mediated on $\text{TiO}_2/\text{ZnWO}_4:\text{Yb}^{3+}, \text{Tm}^{3+}$

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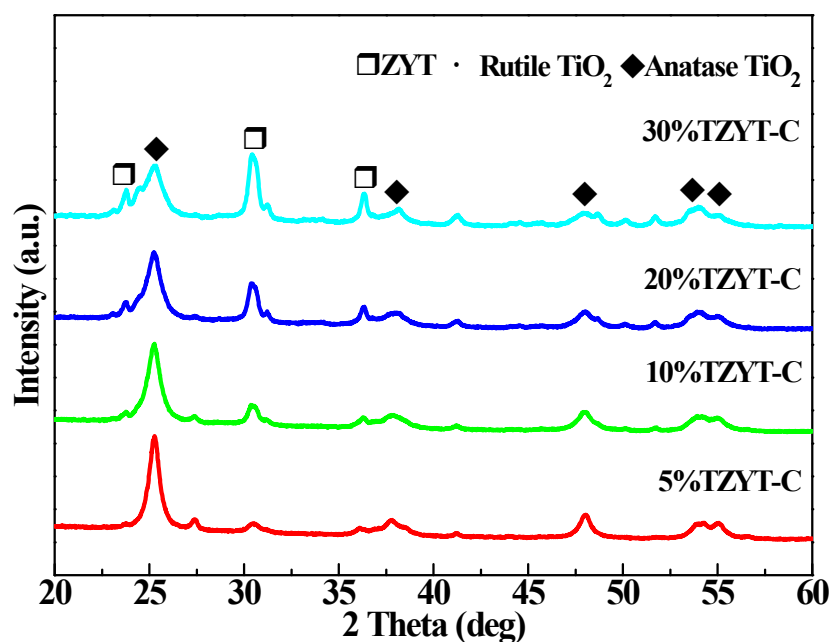


Fig.S1 XRD patterns of the TZYT-C composites.

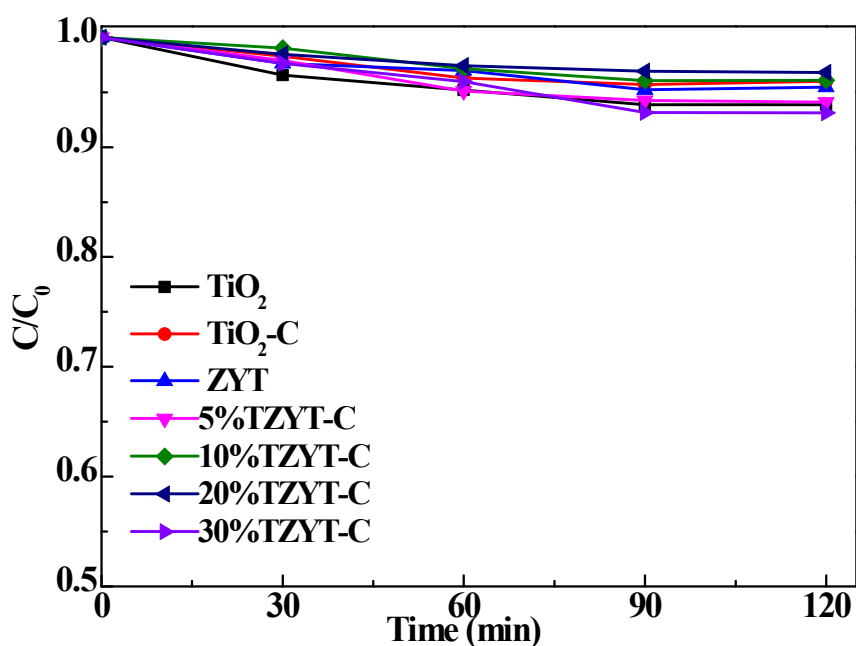


Fig.S2 Adsorption-desorption equilibrium curves before degradation.

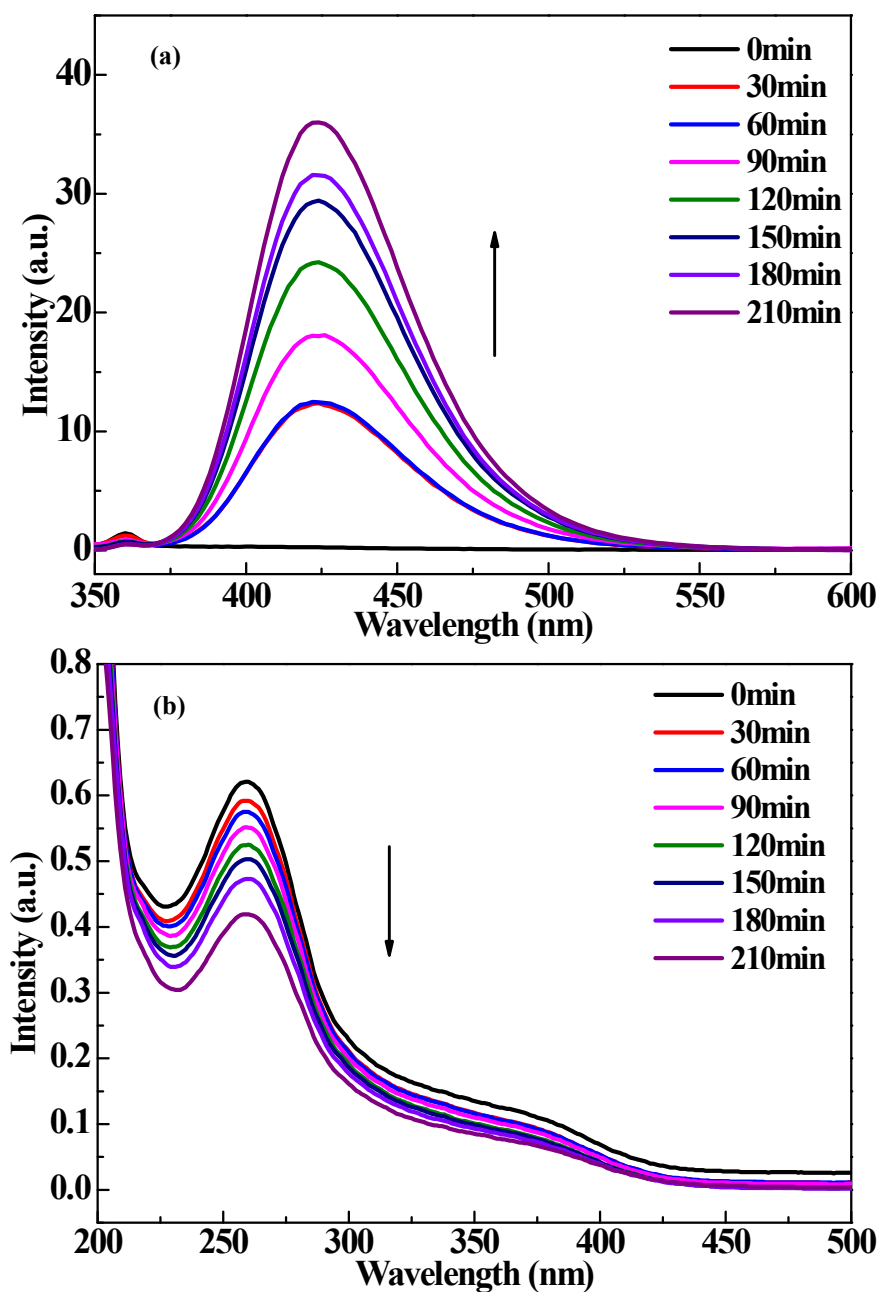


Fig. S3 (a) Time-dependent absorption spectra of TA for 5%TZYT-C under NIR light irradiation ($\lambda \geq 780$ nm) provided by a 500 W high pressure xenon lamp.(b) Time-dependent fluorescence spectra of NBT over 5%TZYT-C under NIR light irradiation ($\lambda \geq 780$ nm) provided by a 500 W high pressure xenon lamp.