Supporting information for

Template-Induced Synthesis and Superior Antibacterial Activity of Hierarchical Ag/TiO₂ Composites

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CAPTIONS:
Fig. S1. SEM image and EDX spectrum of the as-prepared TiO₂
Fig. S2. EDX spectrum of product obtained without bubbling of CO₂
Fig. S3. TG curve of Ag₂CO₃/TiO₂·xH₂O
Fig. S4. XRD patterns of the 0.01-HAC, 0.1-HAC and 0.5-HAC
Fig. S5. MICs of Ag@TiO₂ composite against (a) E.coli (b) S.aureus. (Insets: the optical images of bacteria with different concentration of Ag/TiO₂)
Fig. S6. Diffuse reflectance spectra of the Ag/TiO₂ and as-prepared TiO₂.
Fig. S7 Fluorescence spectra of TAOH obtained by the reaction of TA with •OH radicals generated by as-prepared TiO₂ and Ag /TiO₂ composite under visible-light irradiation for 20 min
Fig. S1. SEM image and EDX spectrum of the as-prepared TiO$_2$
**Fig. S2.** EDX spectrum of product obtained without bubbling of CO$_2$
**Fig. S3.** TG curve of Ag$_2$CO$_3$/TiO$_2$·xH$_2$O
**Fig. S4.** The XRD patterns of the 0.01-HAC, 0.1-HAC and 0.5-HAC
**Fig. S5.** MICs of Ag/TiO$_2$ composite against (a) *E. coli* (b) *S. aureus*. (Insets: the optical images of bacteria with different concentration of Ag/TiO$_2$).
Fig. S6 Diffuse reflectance spectra of the Ag/TiO$_2$ and as-prepared TiO$_2$. 
Fig. S7. Fluorescence spectra of TAOH obtained by the reaction of TA with •OH radicals generated by as-prepared TiO$_2$ and Ag /TiO$_2$ composite under visible-light irradiation for 20 min.