Electronic Supplementary Information

Fabrication and Photoactivity of Short Rod-shaped Mesoporous
SiO$_2$@TiO$_2$ Composites with TiO$_2$ Shell

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Figure S1. FT-IR spectra of (a) SiO$_2$, (b) SiO$_2$-NH$_2$, and (c) SiO$_2$-Br
Figure S2. TGA results of (a) SiO$_2$, (b) SiO$_2$-NH$_2$, and (c) SiO$_2$-Br
Figure S3. TGA results of (a) SiO$_2$, (b) SiO$_2$-NH$_2$, (c) SiO$_2$-Br, (d) SiO$_2$-PGMA and (e) SiGE4
Figure S4. TEM of (a) SiO$_2$@TiO$_2$-4, (c) SiO$_2$@TiO$_2$-5, and FESEM of (b) SiO$_2$@TiO$_2$-4, (d) SiO$_2$@TiO$_2$-5
**Figure S5.** HRTEM of (a) lattice image of SiO$_2$@TiO$_2$-2 and (b) SAED of SiO$_2$@TiO$_2$-2
Figure S6. EDS results of (a) SiO$_2$@TiO$_2$-4 and (b) SiO$_2$@TiO$_2$-5