

(Electronic Supplementary Information)

Supporting Information

A Simple Template-free Approach to TiO₂ Hollow Spheres with Enhanced Photocatalytic Activity

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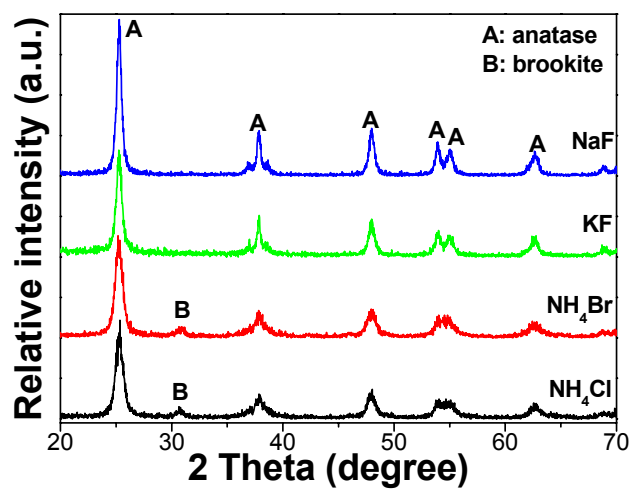


Figure S1. XRD patterns of the samples prepared with different additives at 180°C for 12 h.

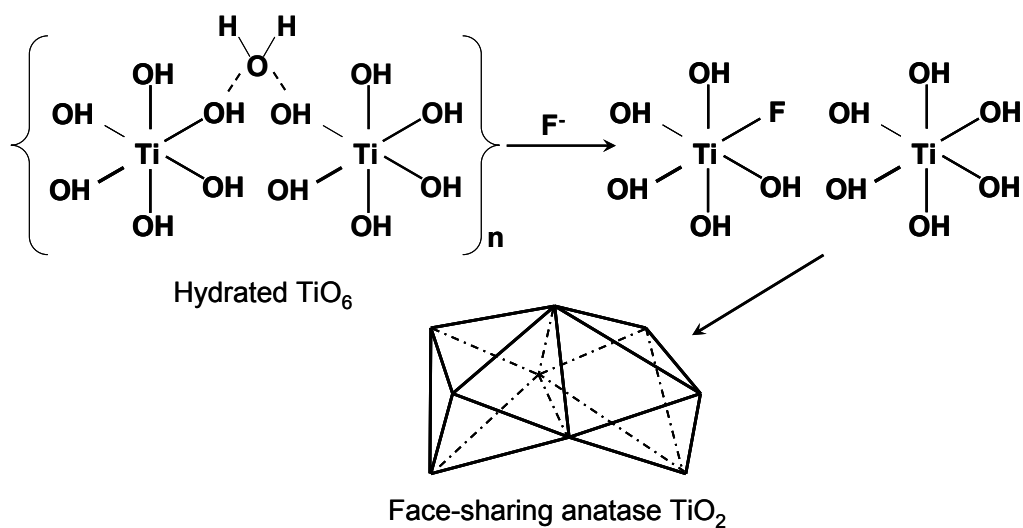


Figure S2. Reaction scheme for hydrothermal crystallization of anatase.

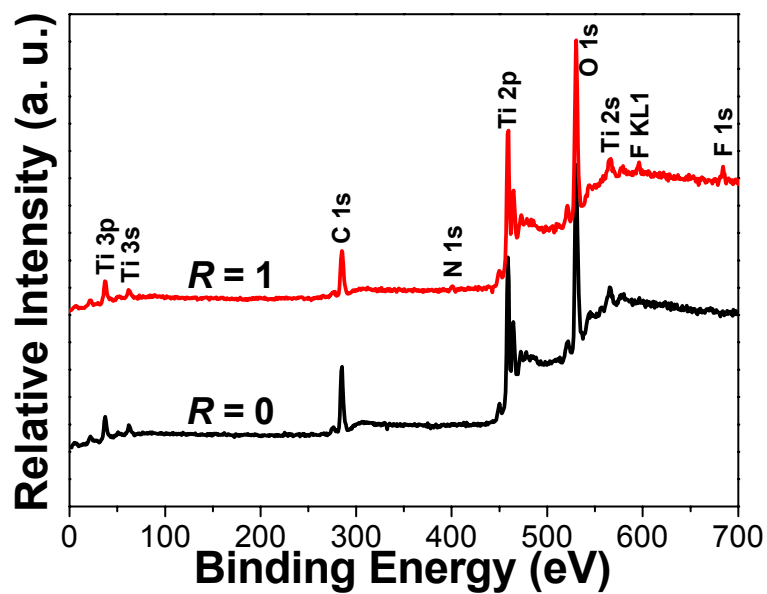
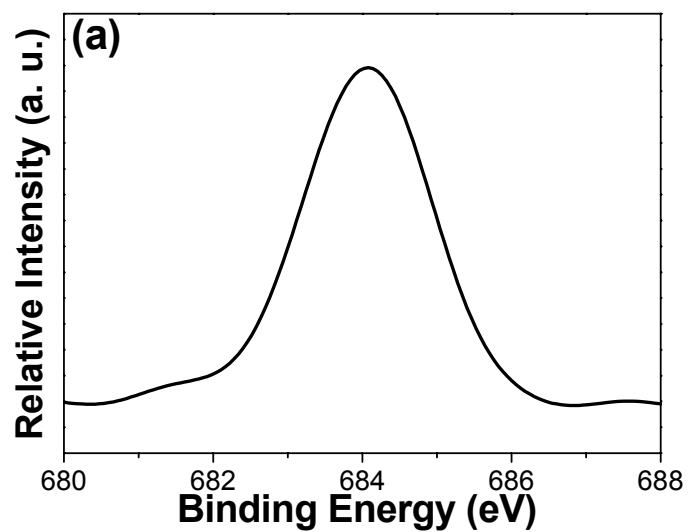


Figure S3. XPS survey spectra of the TiO_2 samples prepared at $R = 0$ and 1, respectively.



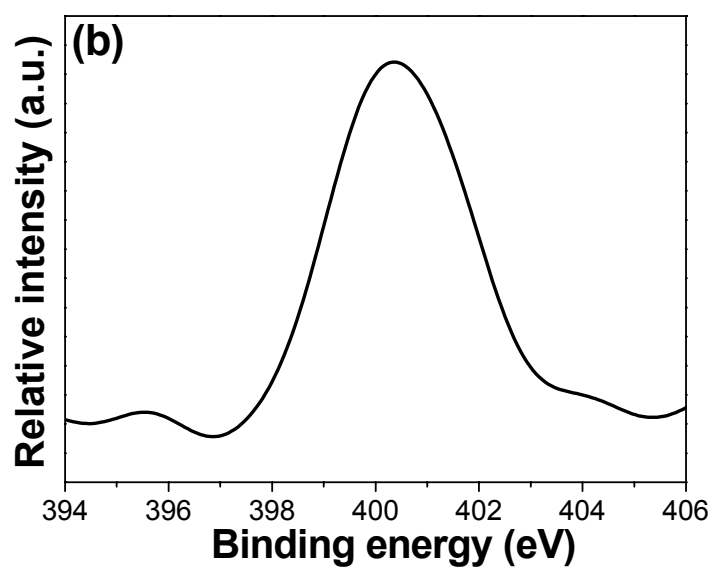


Figure S4. High-resolution XPS spectra of F1s (a) and N1s (b) of the TiO₂ hollow spheres prepared at $R = 1$.

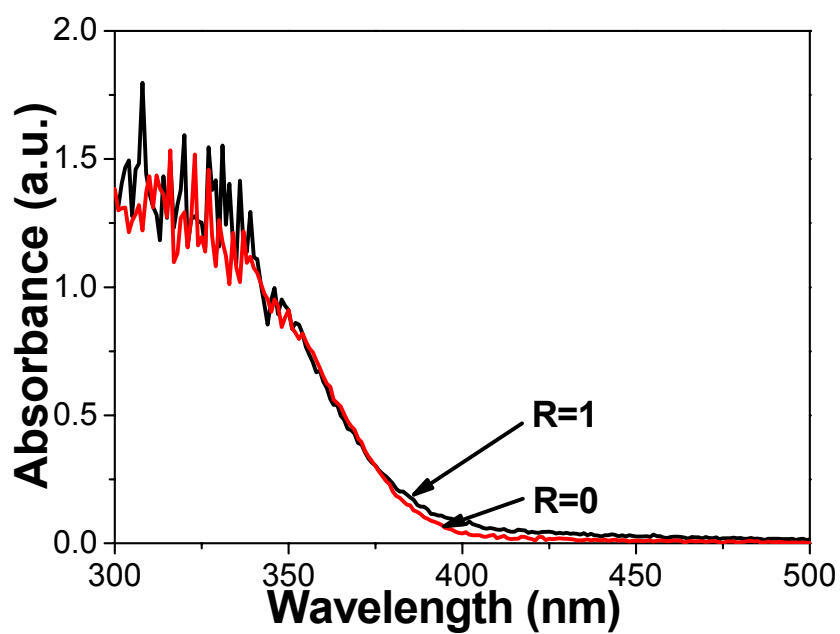


Figure S5. UV-vis absorption spectra of the samples prepared at $R = 0$ and 1, respectively.