Crystallinity Control of TiO₂ Hollow Shells through Resin Protected Calcination for Enhanced Photocatalytic Activity

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Supplementary images and spectra



Figure S1 TGA curves of RF@TiO₂@RF in argon and air.



Figure S2 XRD patterns of RF@TiO₂@RF calcined in air at 500 °C for 2 h, 4 h, and 6 h.



Figure S3 UV–vis absorption spectra showing UV-degradation of RhB using the RTR-700 catalyst (A) before and (B) after NaOH treatment.



Figure S4 Evolution of RhB concentration versus UV irradiation time in the presence of STS catalysts.



Figure S5 Comparison of photocatalytic activity of RTR-700 with P25.



Figure S6 Conversion of RhB by RTR-700-OH for running 5 cycles.

T (°C)	500	600	700
RTR-X	-33.55±2.11 mV	-32.96±1.11 mV	-16.71±1.79 mV
RTR-OH-X	-38.00±1.16 mV	-46.83±2.54 mV	-32.19±2.88 mV

 $\label{eq:stables} \textbf{Table S1} \text{ The Zeta potential of RTR-x sample before and after NaOH treatment.}$