

Fig. S1. Absorption curve of RhB

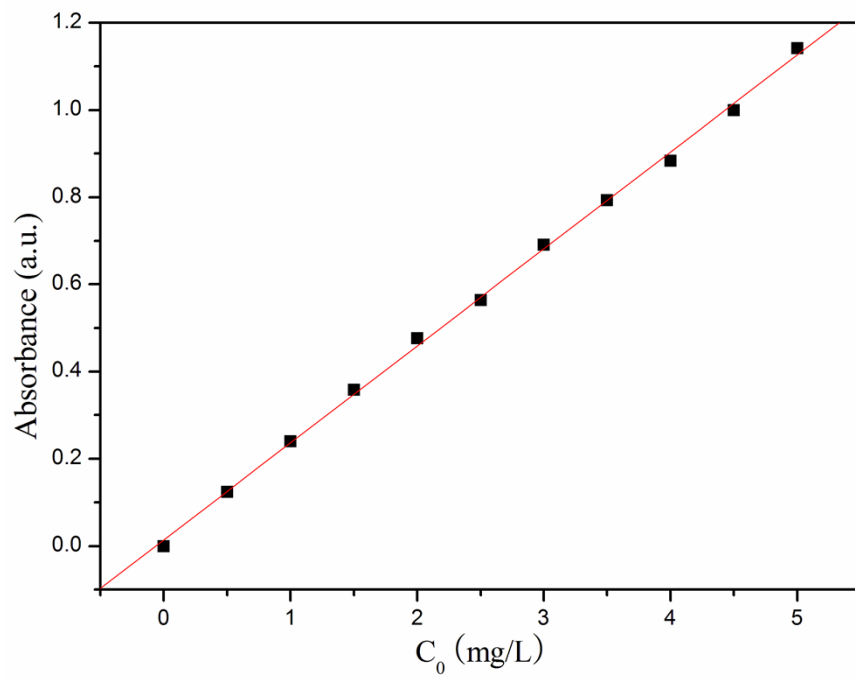


Fig. S2. Linear calibration of absorbance against concentration

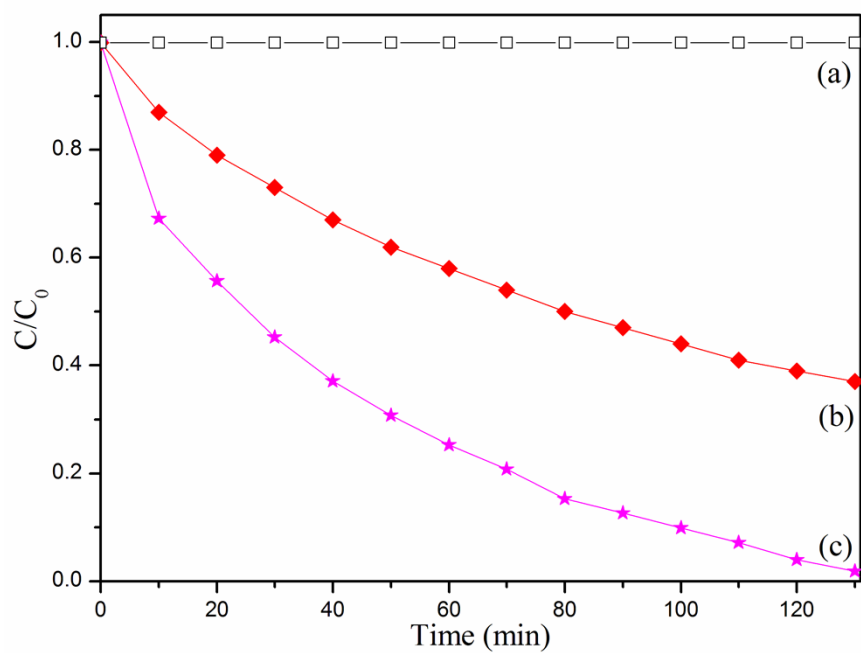


Fig. S3. The photocatalytic activity comparisons of RhB for blank experiment (a), $\text{Bi}_2\text{S}_3\&\text{g-C}_3\text{N}_4\text{-4}$ (b, prepared by mechanical mixing method) and $\text{Bi}_2\text{S}_3/\text{g-C}_3\text{N}_4\text{-4}$ (c, prepared by hydrothermal method) samples

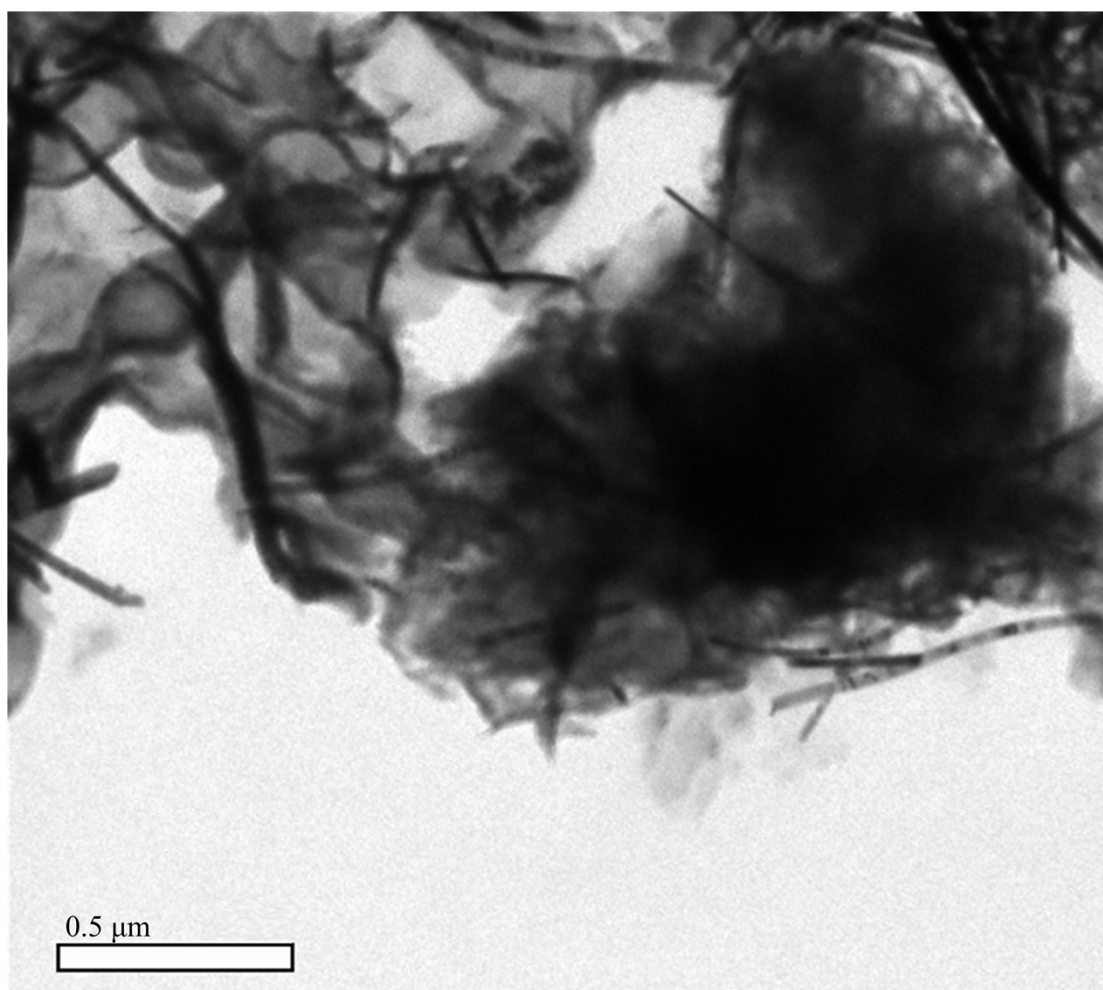


Fig. S4. TEM image of $\text{Bi}_2\text{S}_3/\text{g-C}_3\text{N}_4\text{-5}$

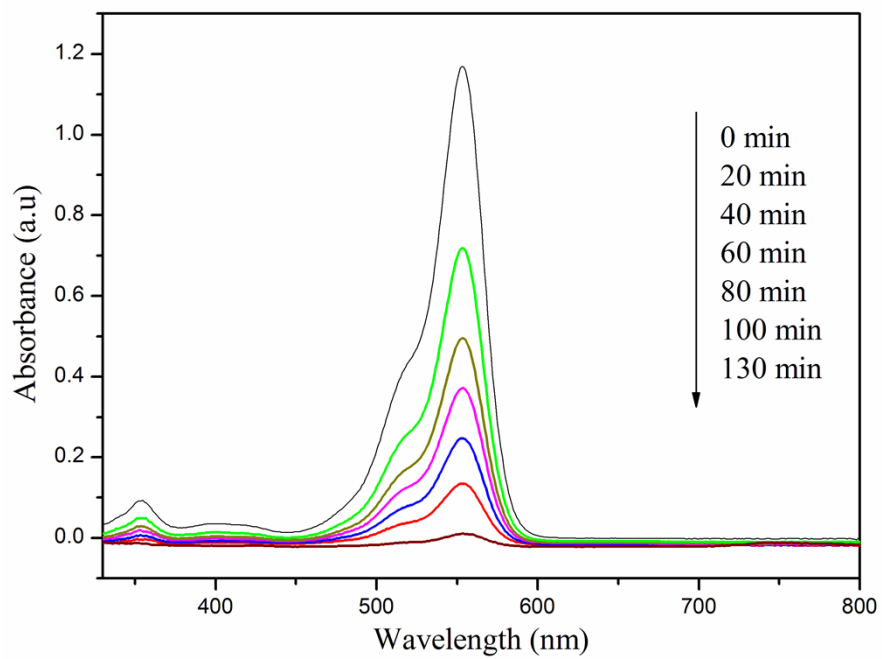


Fig. S5. Evolutions of absorption spectra of RhB with different time

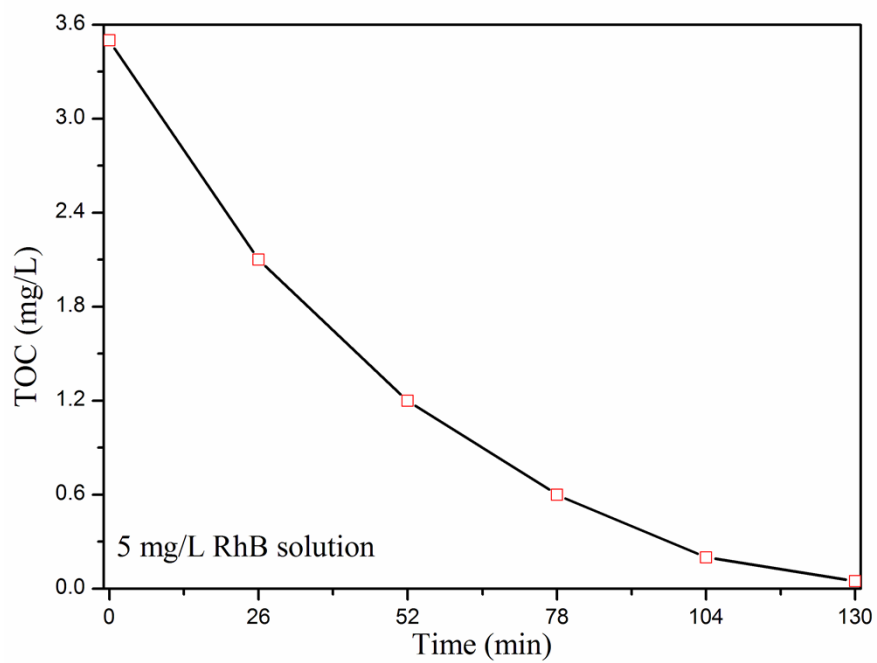


Fig. S6. TOC evolution versus irradiation time in the photocatalytic reaction