

Figure S1. The XRD patterns of the precursors, (a) $\text{Bi}(\text{OHC}_2\text{O}_4)_2 \cdot 2\text{H}_2\text{O}$, (b) S-1, (c) S-2, (d) S-3 (e) S-4 (f) BiOI and (g) Standard Card of BiOI

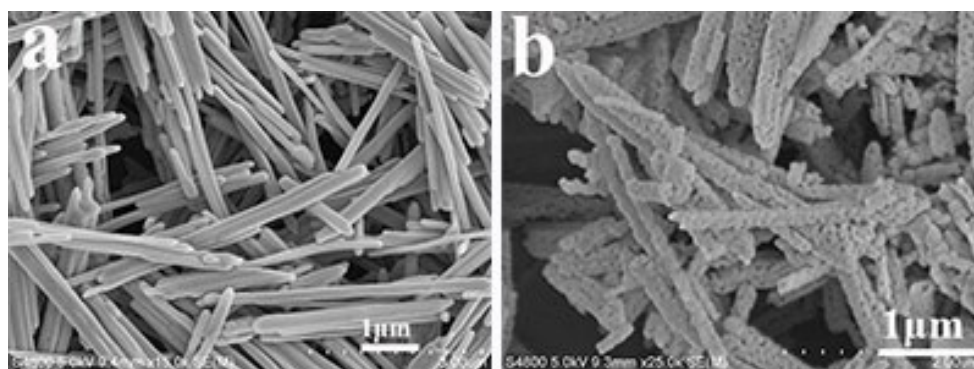


Figure S2 FE-SEM images of the $\text{Bi}(\text{OHC}_2\text{O}_4)_2 \cdot 2\text{H}_2\text{O}$ (a), Bi_2O_3 (b).

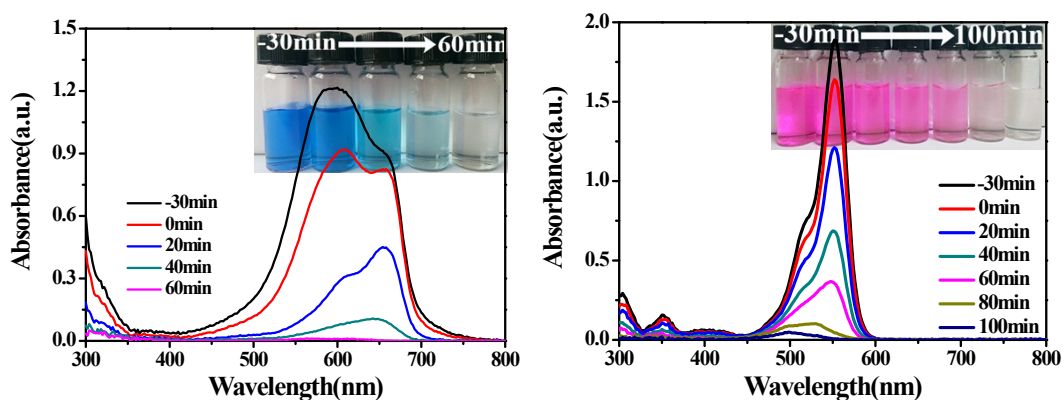


Figure S3 UV-vis absorption spectra of (a) MB (10 mg/L) and (b) RhB (10mg/L) using DS-2 as photocatalyst under visible light irradiation.