

Supplementary Information

Flower-like Bi₄O₅I₂/Bi₅O₇I nanocomposite: facile hydrothermal synthesis and efficient photocatalytic degradation of propylparaben under visible-light irradiation

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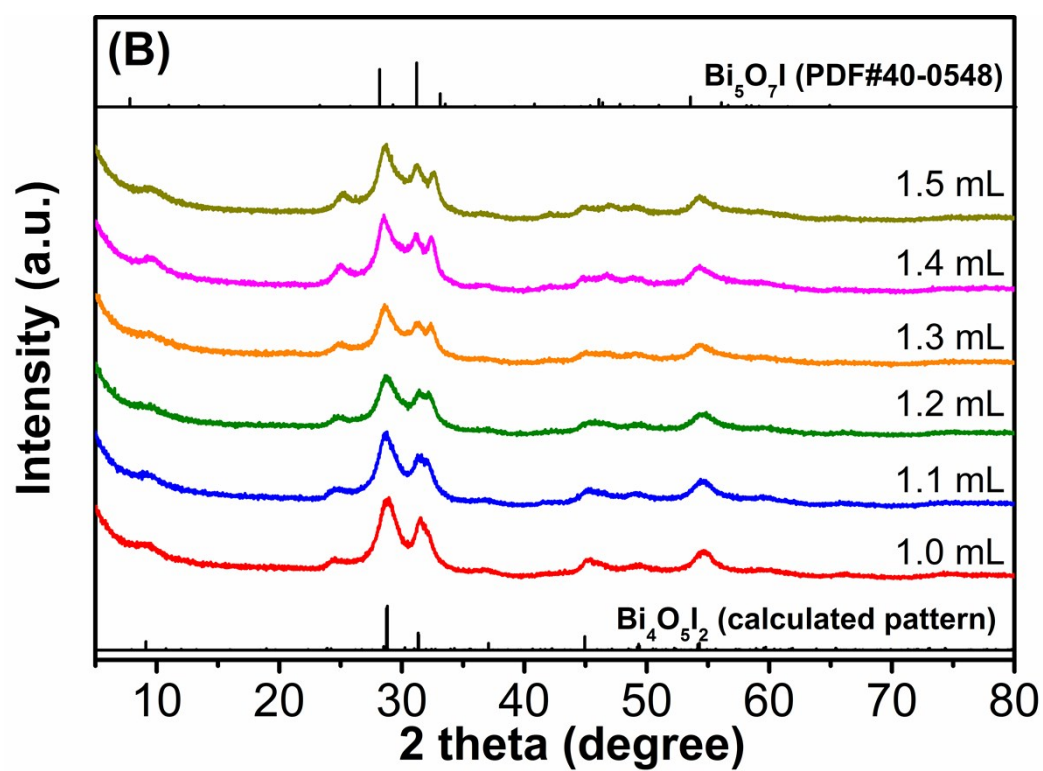
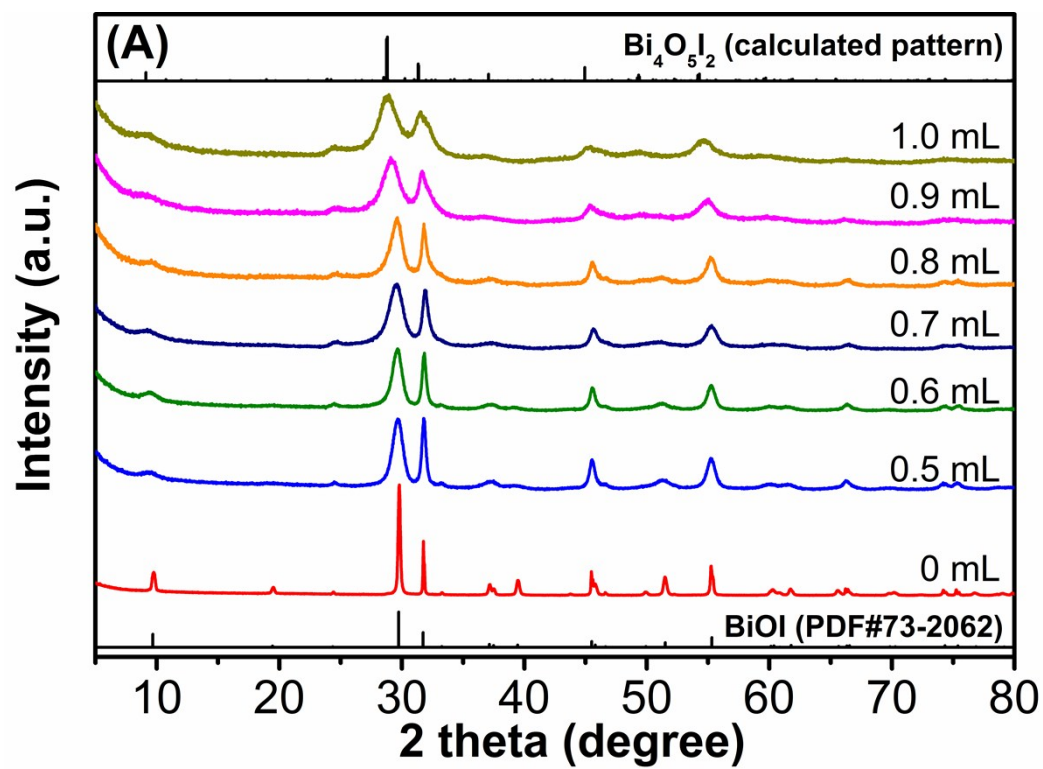
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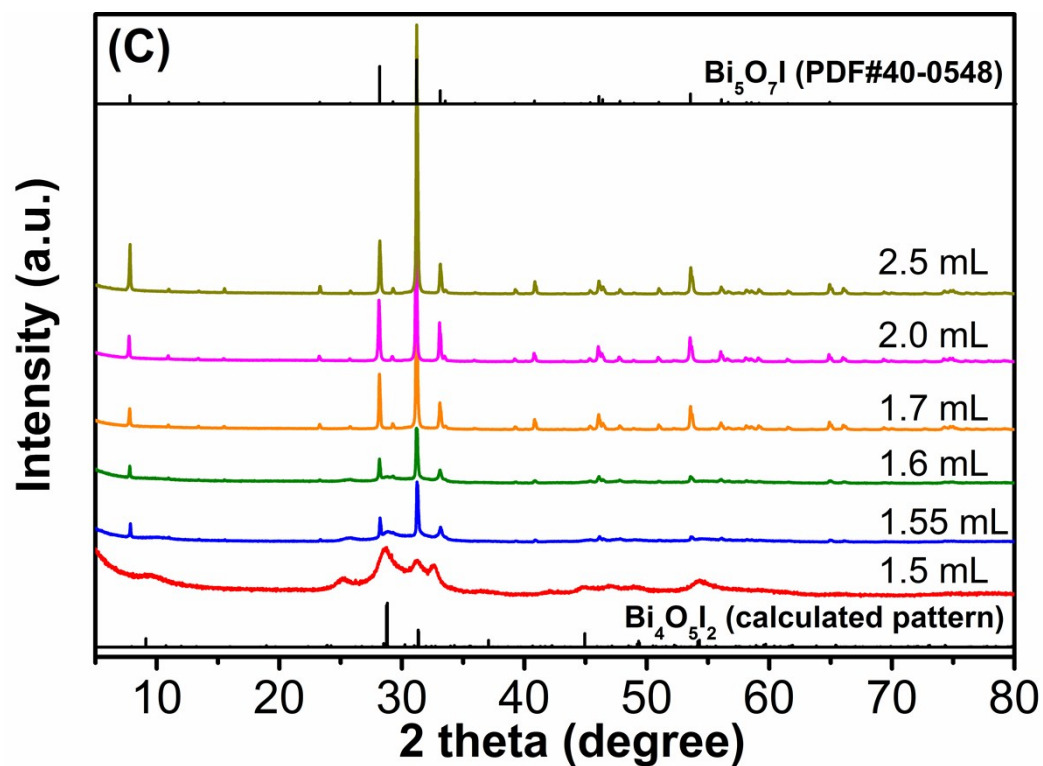


Fig. S1. XRD patterns of samples prepared by adding different amount of NaOH.

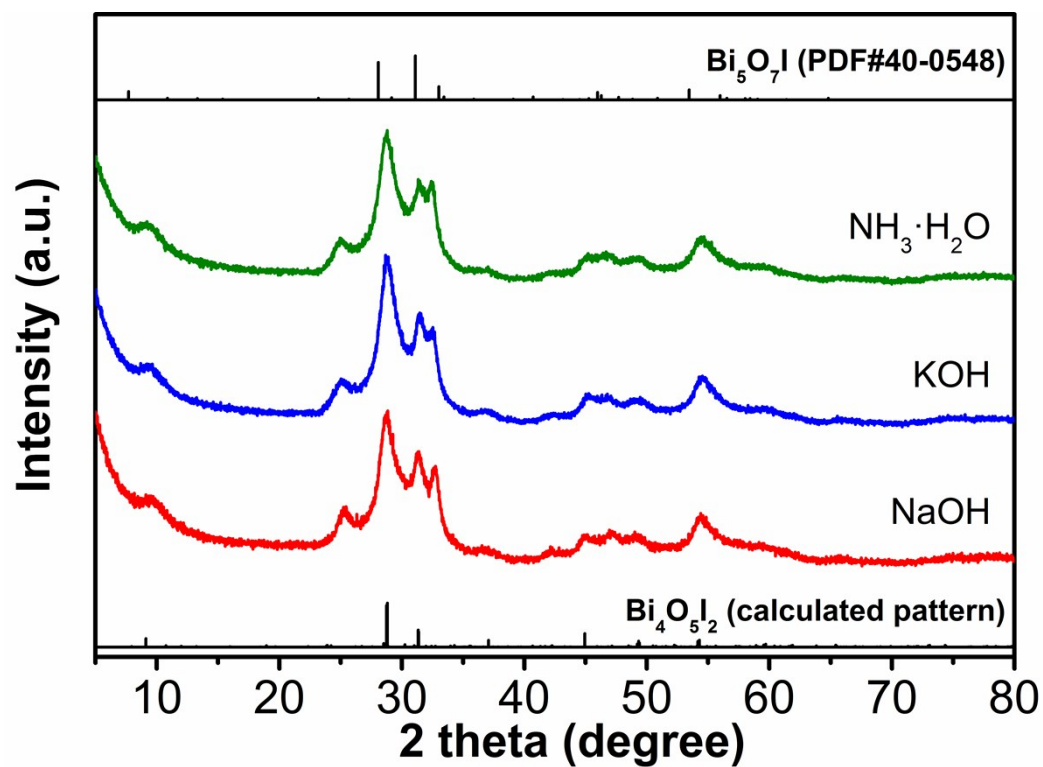


Fig. S2. XRD patterns of samples prepared by adding different kinds of base.

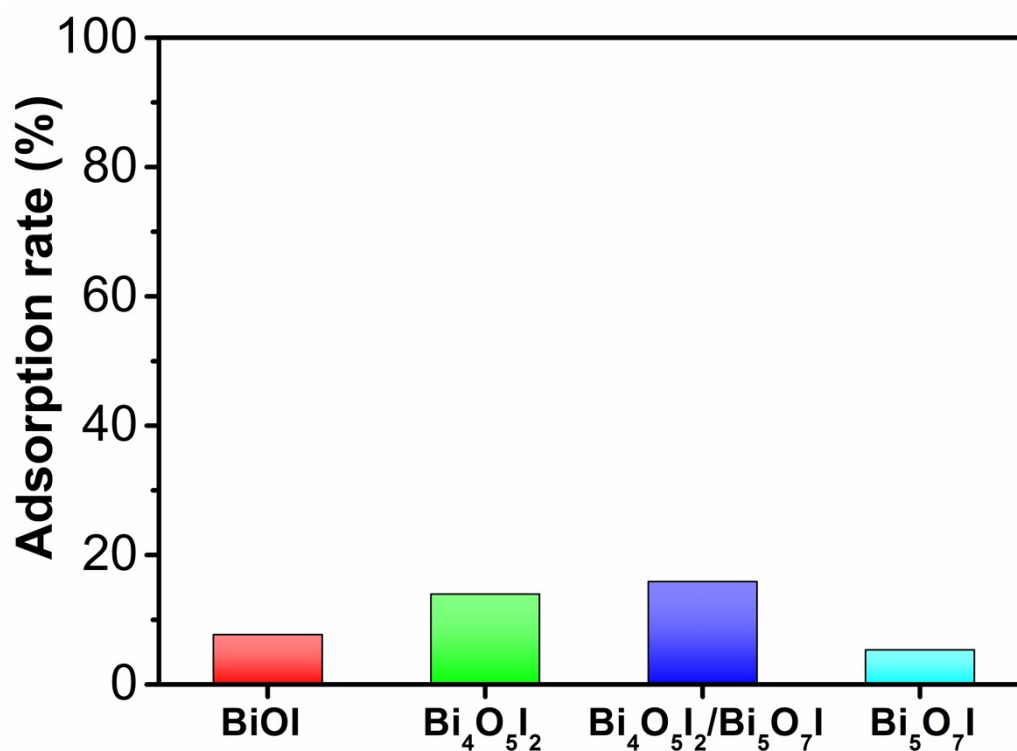


Fig. S3. Adsorption efficiencies of PPB over four photocatalysts after 90 min in dark.

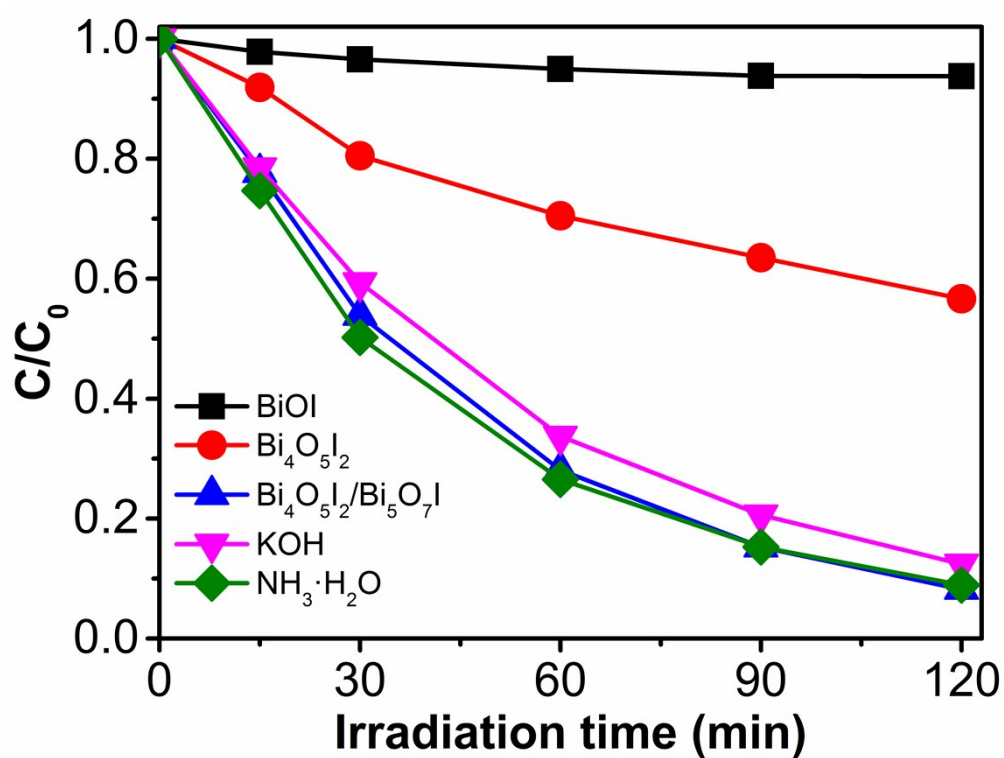


Fig. S4 Photocatalytic degradation of PPB over the BiOI, $\text{Bi}_4\text{O}_5\text{I}_2$, and three $\text{Bi}_4\text{O}_5\text{I}_2/\text{Bi}_5\text{O}_7\text{I}$ prepared by using different base under visible-light irradiation.

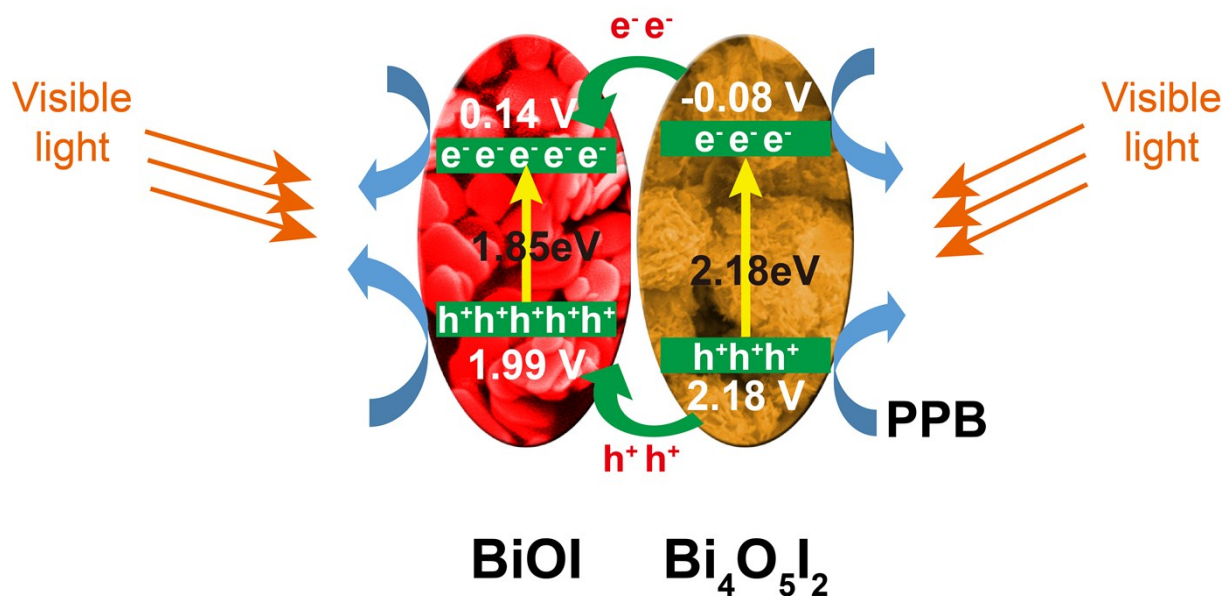


Fig. S5. The band structure of $Bi_4O_5I_2/BiOI$ heterojunction.

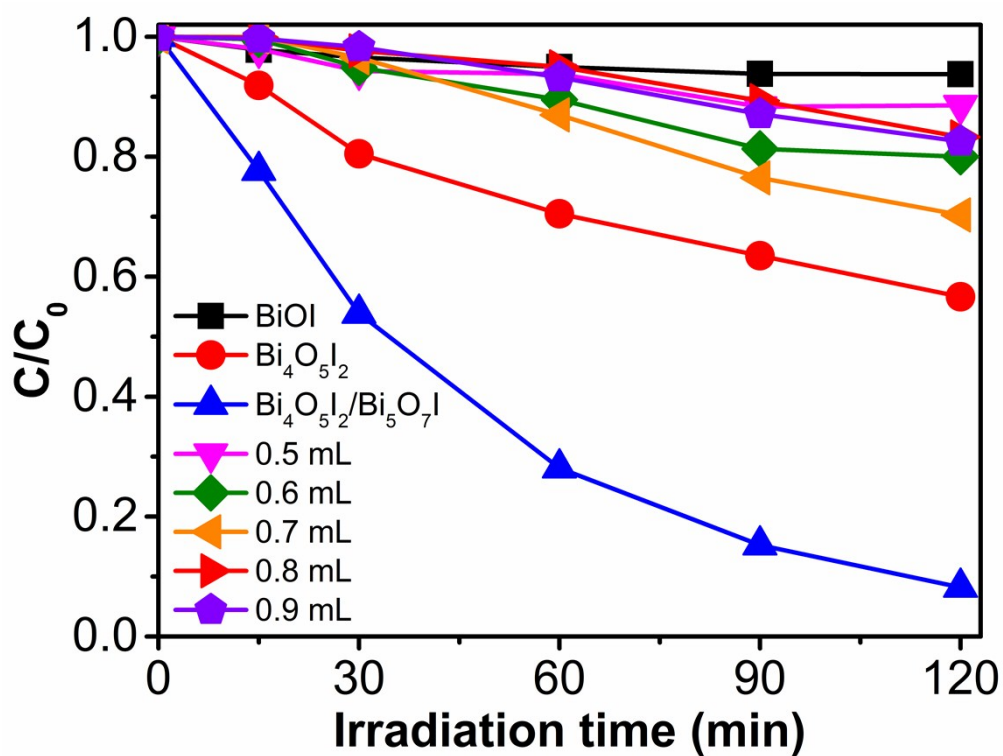


Fig. S6 Photocatalytic degradation of PPB over the BiOI, $Bi_4O_5I_2$, $Bi_4O_5I_2/Bi_5O_7I$, and $Bi_4O_5I_2/BiOI$ heterojunctions.

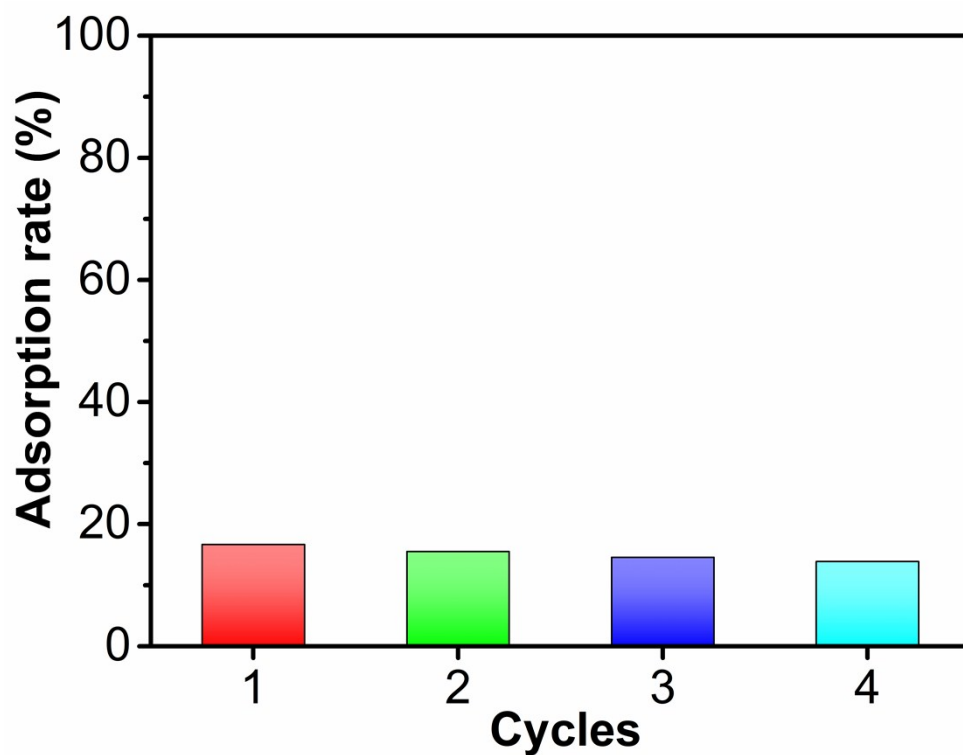


Fig. S7. Adsorption efficiencies of PPB on $\text{Bi}_4\text{O}_5\text{I}_2/\text{Bi}_5\text{O}_7\text{I}$ catalyst in dark during cycle experiments.

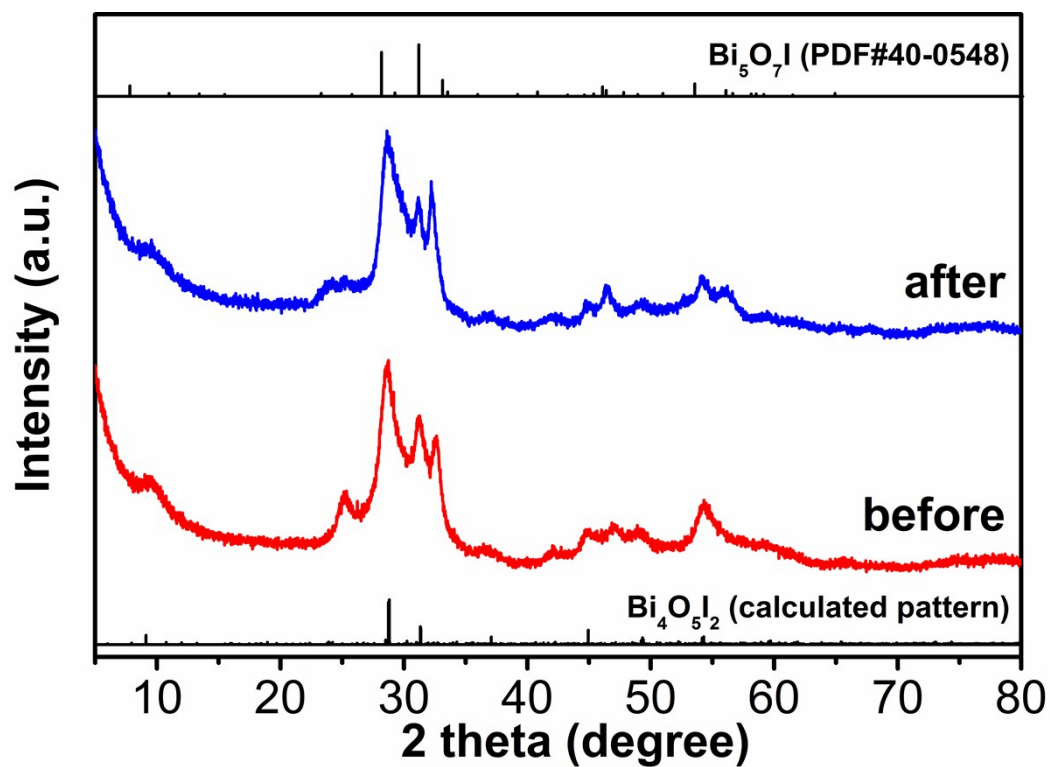


Fig. S8. XRD patterns of as-prepared $\text{Bi}_4\text{O}_5\text{I}_2/\text{Bi}_5\text{O}_7\text{I}$ before and after photocatalytic reaction.