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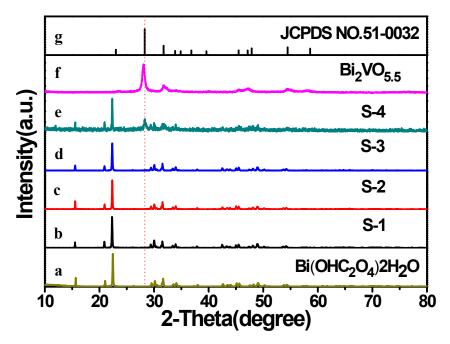


Figure S1. The XRD patterns of the precursors, (a) $Bi(OHC_2O_4) \cdot 2H_2O$, (b)S-1, (c)S-2, (d) S-3 (e) S-4 (f) $Bi_2VO_{5.5}$ and (g) Standard Card of $Bi_2VO_{5.5}$

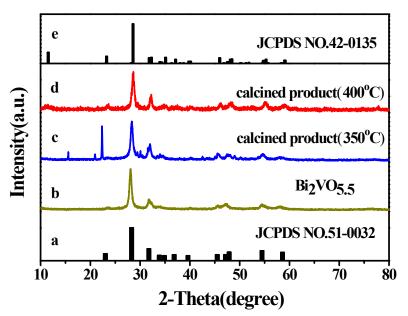


Figure S2. The XRD patterns of the pure $Bi_2VO_{5.5}$ (b), the calcined products (c-d) and the Standard Cards of $Bi_2VO_{5.5}$ (a) and Bi_4VO_{11} (e).

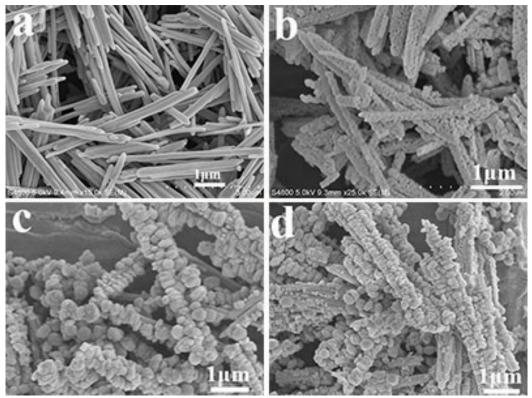


Figure S3 FE-SEM images of the $Bi(OHC_2O_4) \cdot 2H_2O$ (a) and the relative calcined products (b); the precursors with high loaded- $Bi_2VO_{5.5}$ content (c) and the relative calcined product (d).

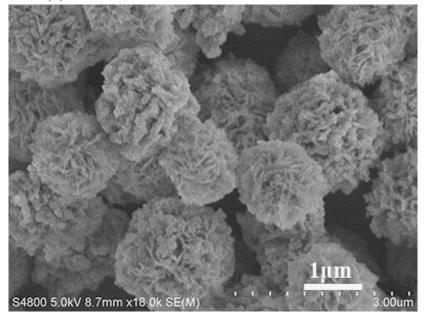


Figure S4 FE-SEM images of the pure Bi₂VO_{5.5}.

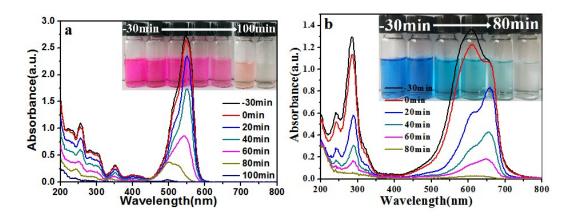


Figure S5 UV-vis absorption spectra of (a) RhB (20 mg/L) and (b) MB (10mg/L) using DS-2 as photocatalyst under visible light irradiation.

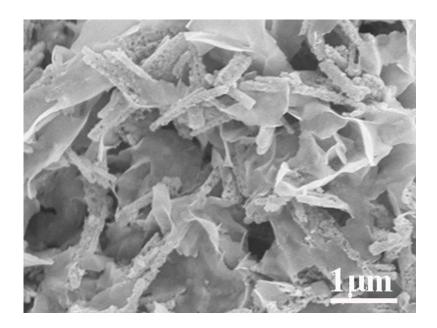


Figure S6 FE-SEM images of the DS-2 sample after the recycling photocatalysis.