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nanoflakes. Inset in c is the SAED pattern.



Fig. S3 EDS analysis of the elemental information and atomic percentages of the
 SnS<sub>2</sub>-incorporated BiOCl hollow spheres.



incorporated BiOCl hollow spheres.

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energy (hv) of pure SnS<sub>2</sub>, pure BiOCl, BiOCl/SnS<sub>2</sub>.





Fig. S8 Schematic diagrams of energy bands of p-BiOCl, n-SnS<sub>2</sub> and the p-BiOCl/nSnS<sub>2</sub> junction. The energy band diagram at equilibrium and transfer of photoinduced
electrons form p-BiOCl and n-SnS<sub>2</sub> under visible-light irradiation are also described.

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