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Electronic Supplementary Information Controllable in-situ synthesis of $BiOBr_xI_{1-x}$ solid solution on reduced graphene oxide with enhanced visible light photocatalytic performance

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The measurement of photoluminescence (PL) spectra.

The photoluminescence (PL) spectra were surveyed by Edinburgh FL/FS900 spectrophotometer.

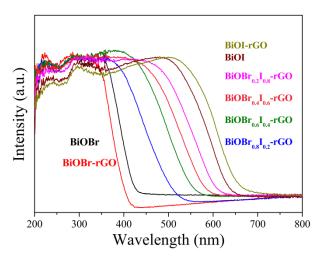


Fig. S1 UV–vis diffuse reflectance spectra of $BiOBr_xI_{1-x}$ -rGO samples, as well as pure BiOBr and BiOI.

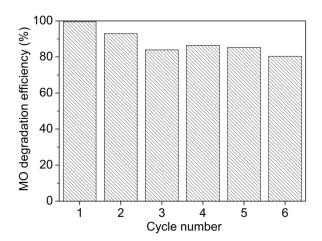
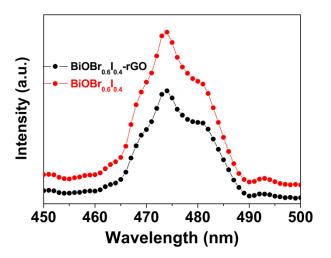


Fig. S2 Cycling runs for the photocatalytic degradation of MO by $BiOBr_{0.6}I_{0.4}$ -rGO sample under visible light irradiation.



 $Fig.~S3~PL~spectra~of~BiOBr_{0.6}I_{0.4}~and~BiOBr_{0.6}I_{0.4}-rGO~at~an~excitation~wavelength~of~325~nm.$