Electronic Supplementary Material (ESI) for CrystEngComm.

Controlled synthesis of one-dimensional BiOBr with exposed (110) facet and enhanced photocatalytic activities

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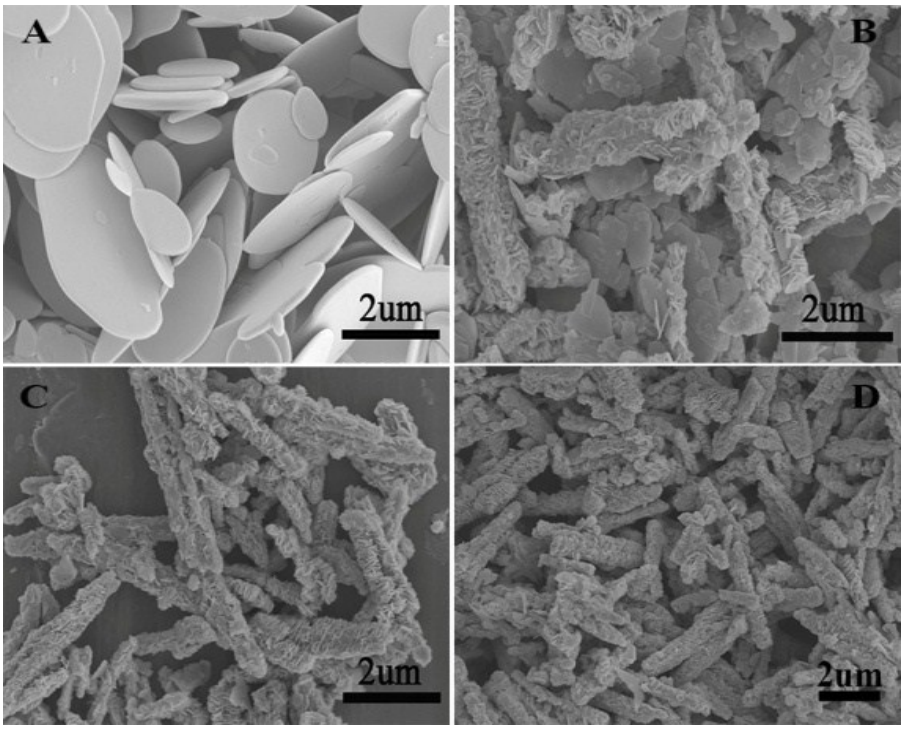

Fig. S1 SEM images of the obtained BiOBr with the different concentration of glucose, (A) 0 g, (B) 0.002 g, (C) 0.004 g and (D) 0.006 g.

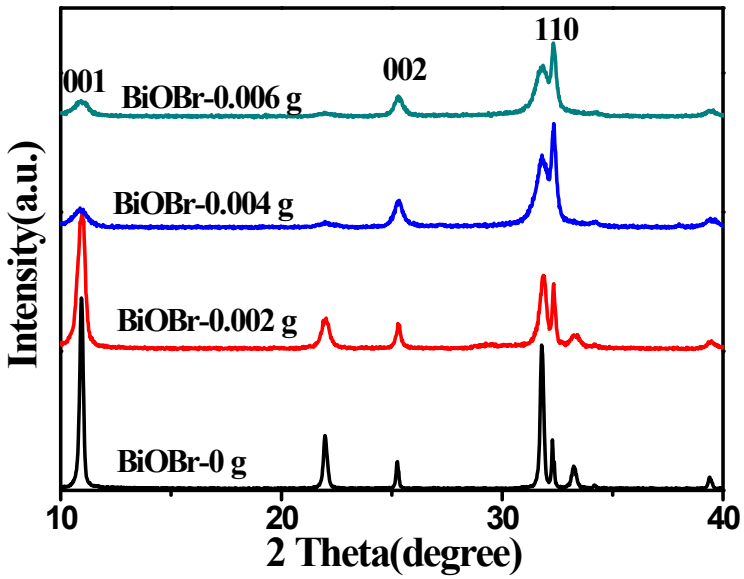

Fig. S2 The XRD patterns of the obtained BiOBr samples with different concentration of glucose (0, 0.002, 0.004 and 0.006g).

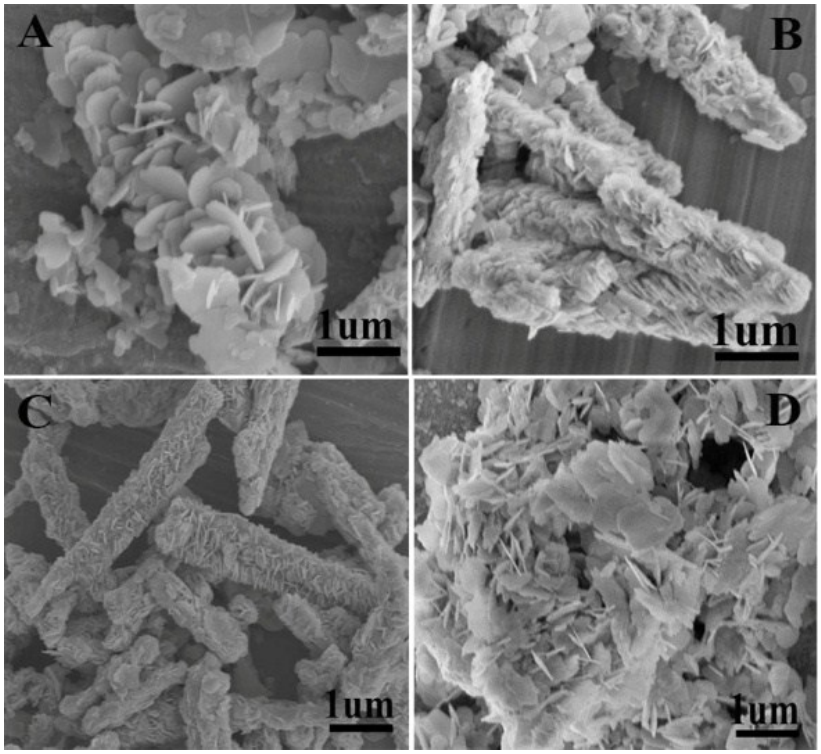

Fig. S3 SEM images of BiOBr at 160^{o}C for different reaction time using 0.004g of glucose as surfactant, (A) 2 h, (b) 6 h, (c) 12 h, (d) 24 h.

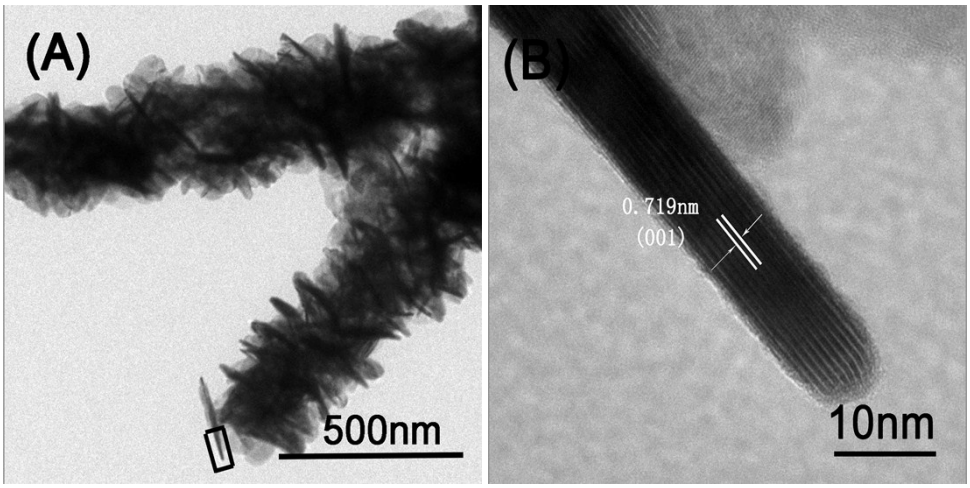

Fig.S4 the TEM and HRTEM images of BiOCl-110 sample.

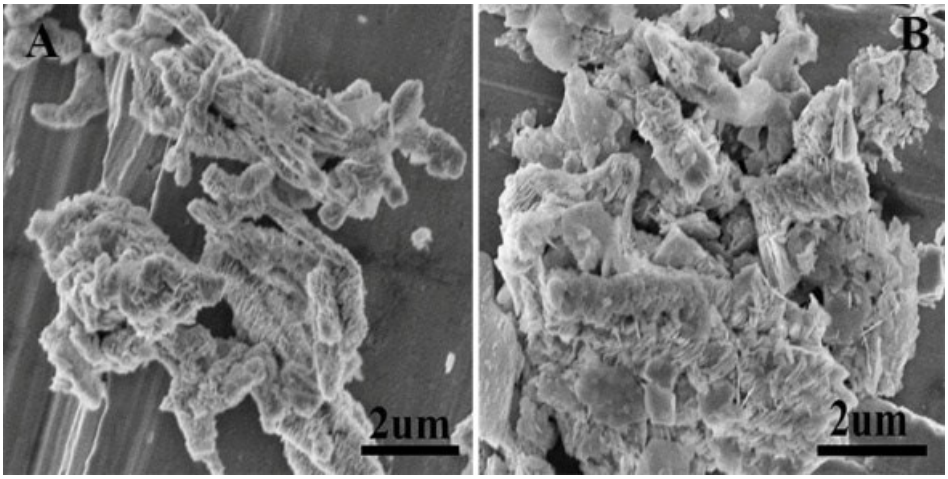

Fig. S5 SEM images of BiOBr-110 obtained at different concentration of reactants (A) 0.5 mmol, and (B) 2 mmol.

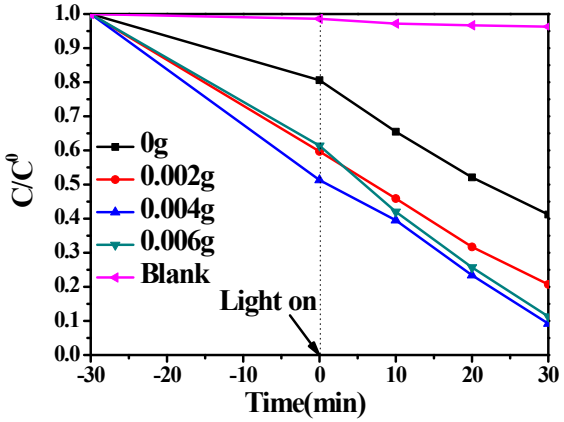

Fig. S6 the degradation curve of MO using BiOBr samples obtained at different concentration of glucose as photocatalyst under visible light irradiation.

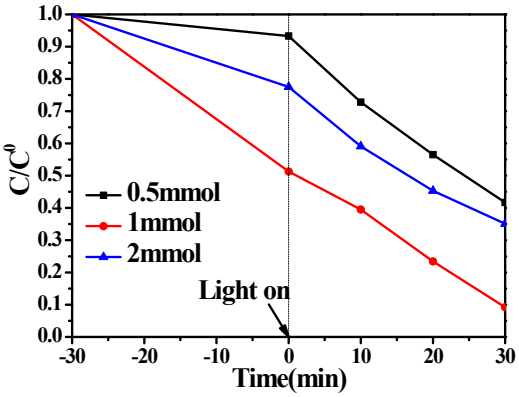

Fig. S7 the degradation curve of MO using BiOBr samples obtained at different concentration of reactant as photocatalysts under visible light irradiation

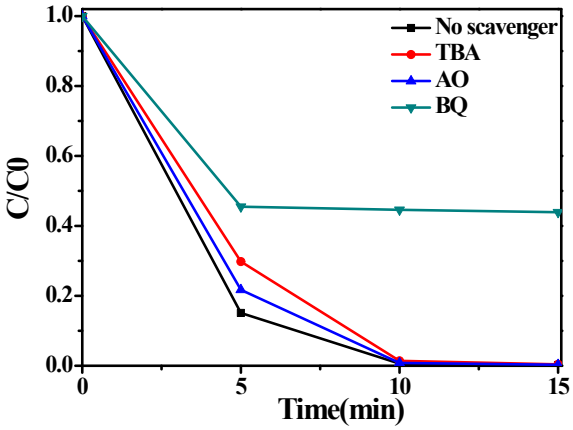

Fig. S8 Active species trapping experiments during the photocatalytic degradation to MO (20 mg/L) under solar light irradiation using BiOBr-110 as photocatalyst.