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Facet-selective interface design of $BiOI_{(110)}$/Br-$Bi_2O_2CO_{3\ (110)}$ p-n heterojunction photocatalyst

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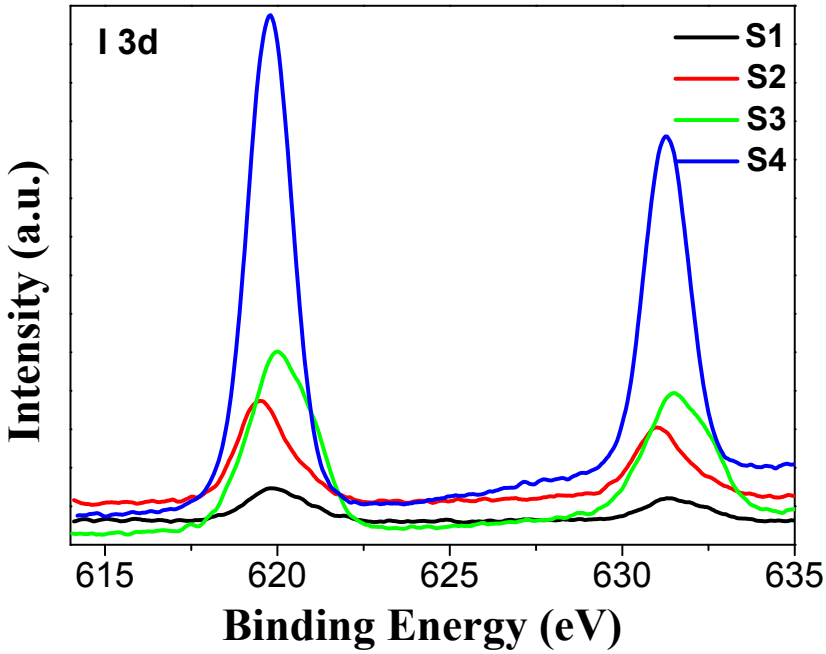

Fig. S1 high-resolution XPS spectra of I 3d

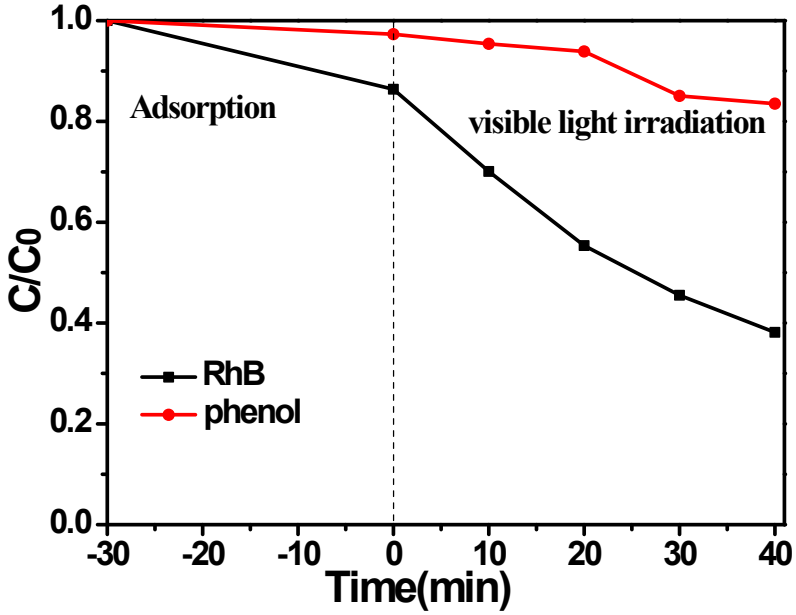

Fig. S2 The degradation curves of phenol and RhB under visible light irradiation using S2 as photocatalyst.

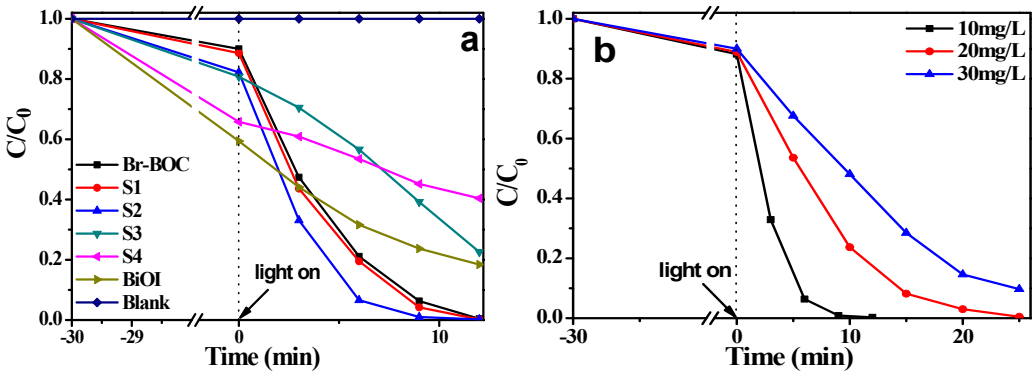

Fig. S3 (a) Degradation curve of MO (10 mg/L) dye in the presence of different photocatalysts and (b) degradation curve of different concentrations of MO dye under solar light irradiation.

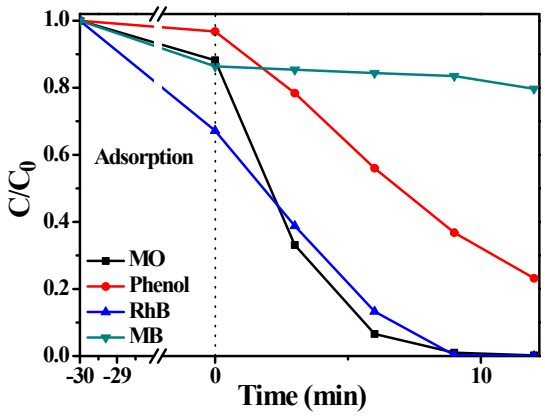

Fig. S4. The degradation curves of phenol and some dyes under solar light irradiation using S2 as photocatalyst.

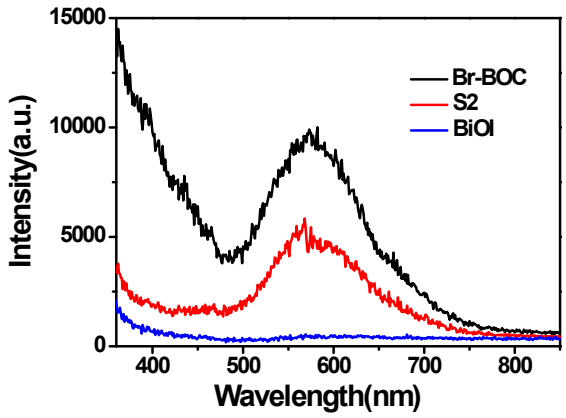

Fig. S5 Photoluminescence (PL) spectra at room temperature