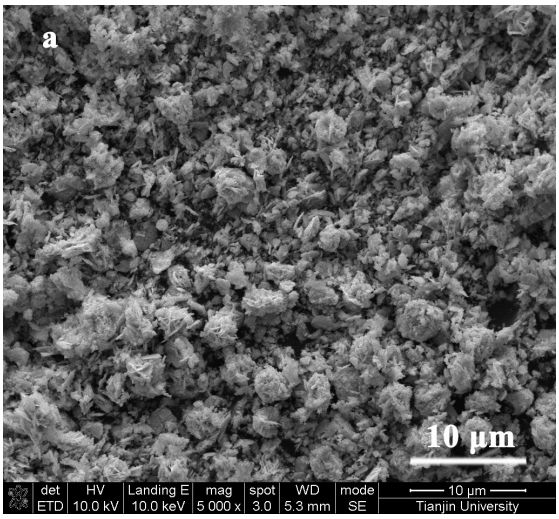
Supplementary Information

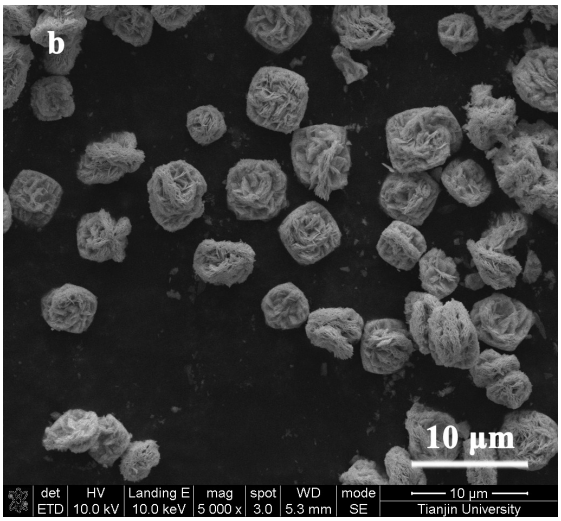
SDS-assisted solvothermal synthesis of rose-like BiOBr partially enclosed by {111} facets and enhanced visible-light photocatalytic activity

Yang Zhao[a§], Tao Yu[a,c,d*§], Xin Tan[b], Chuang Xie[a,d], Shucong Wang[e]

[a]*School of Chemical Engineering and Technology, Tianjin University, Tianjin 300072, P.R. China*
[b]*School of Science, Tibet University, Lhasa 850000, P.R. China*
[c]*Tianjin University-National Institute for Materials Science Joint Research Center, Tianjin University, Tianjin 300072, P.R. China*
[d]*Collaborative Innovation Center of Chemical Science and Engineering (Tianjin), Tianjin 300072, P.R. China*
[e]*School of Environmental Science and Engineering, Tianjin University, Tianjin 300072, P.R. China*

§Yang Zhao and Tao Yu contributed equally to this work.
*Corresponding author. Tel.:/Fax +86 2223502142.
E-mail addresses: yutao@tju.edu.cn, lisat0001@163.com (T.Yu).





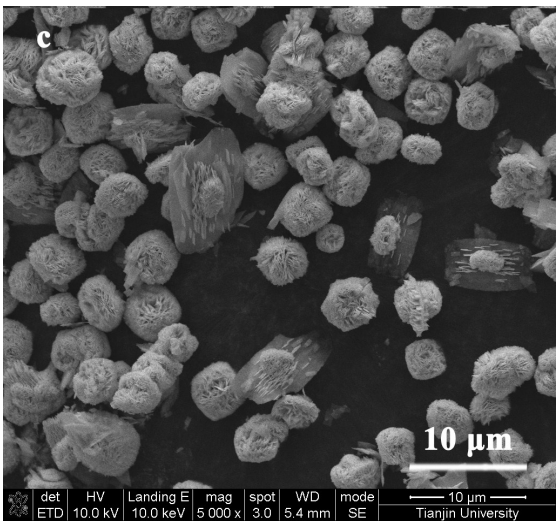
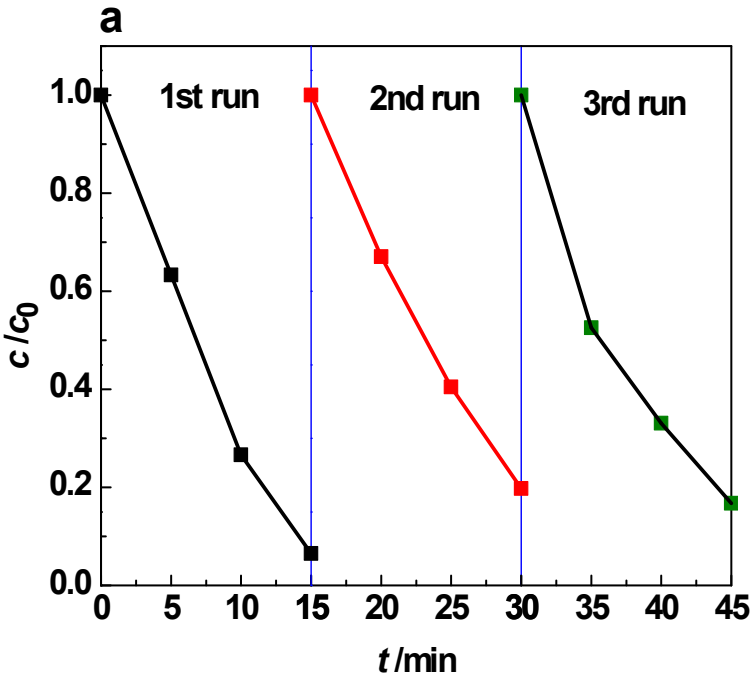


Fig. S1 SEM images of BiOBr-111 at different reaction time (a) 2h, (b) 4h, (c) 24h



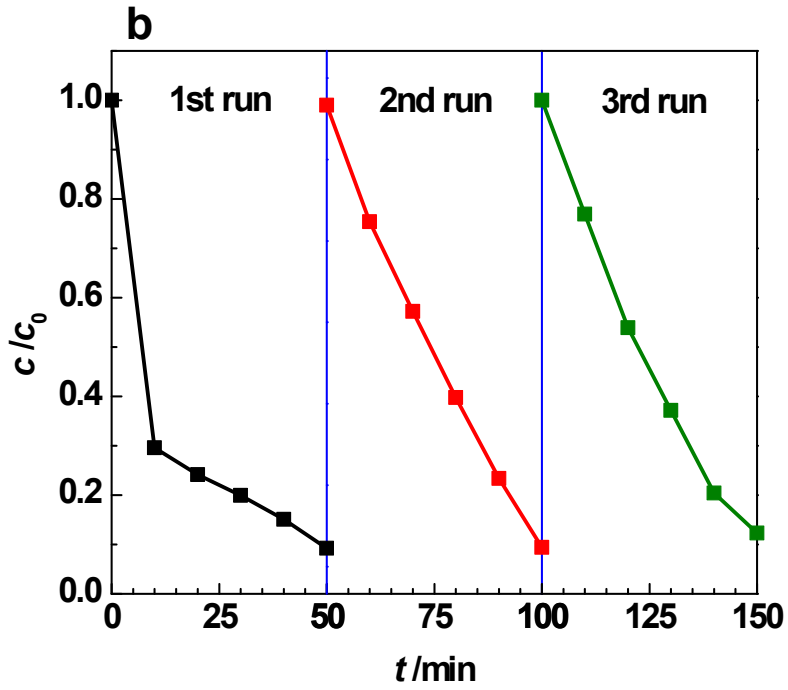


Fig. S2 (a) Cycle photodegradation of RhB; (b) cycle photodegradation of MO with BiOBr-111 under visible light(λ≥420 nm**)**