Electronic Supplementary Material (ESI) for Catalysis Science & Technology.

Supplementary Information

Bismuth MOFs derived $BiOBr/Bi_{24}O_{31}Br_{10}$ heterojunctions with enhanced visible-light photocatalytic performance

Ganghong Huang[ab], Zishun Li [ab], Kun Liu*[ab], Xuekun Tang[ab], Jing Huang[ab] and Guofan Zhang*[a]

a. School of Minerals Processing and Bioengineering, Central South University, Changsha 410083, China. E-mail: kliu@csu.edu.cn, csuzhangguofan01@163.com

b. Hunan Key Laboratory of Mineral Materials and Application, Central South University, Changsha 410083, China.

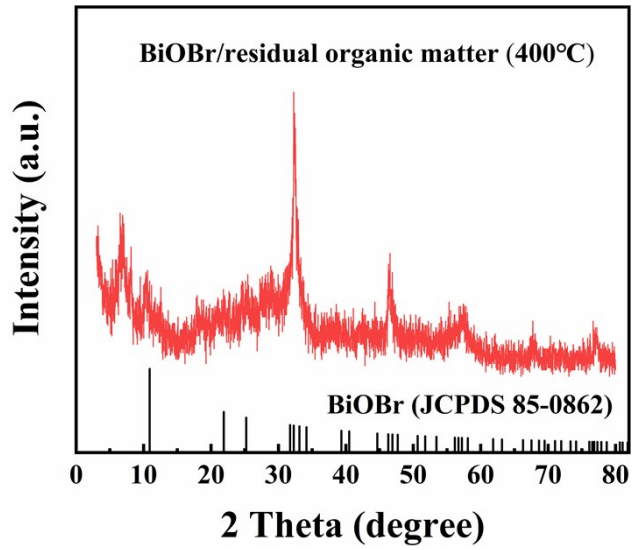

Fig. S1 XRD patterns of 400°C sample

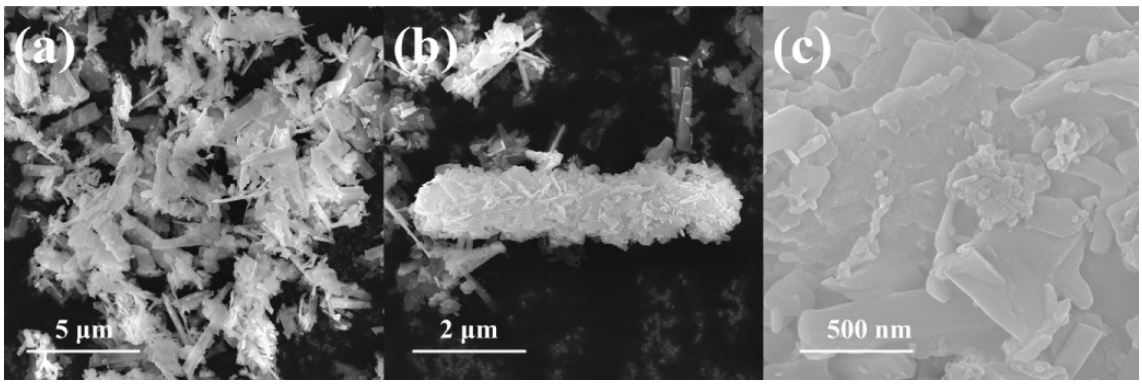

Fig. S2 SEM images of $BiOBr/Bi_{24}O_{31}Br_{10}$ (500°C)

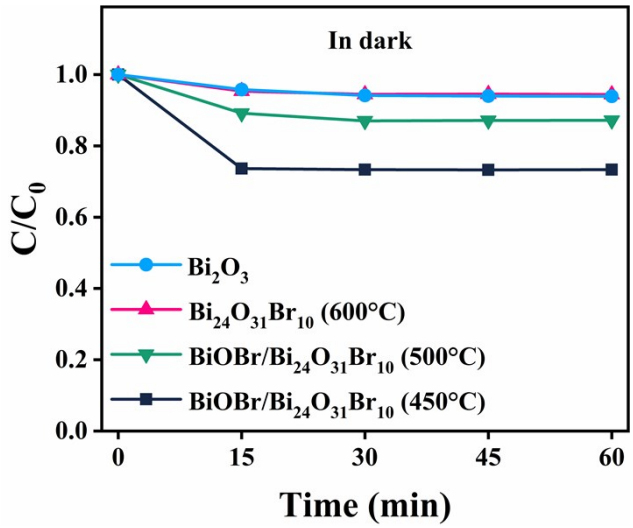

Fig. S3 The adsorption curve of RhB in the dark over different samples.

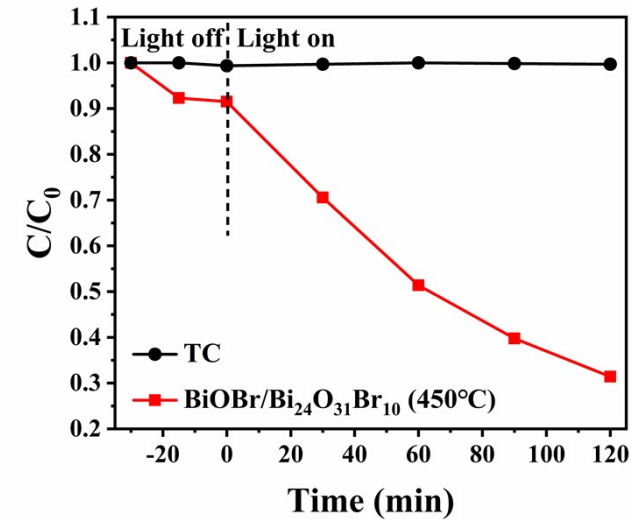

Fig. S4 Photocatalytic degradation of TC (TC: 20 mg/L, catalyst dosage: 50 mg) over $BiOBr/Bi_{24}O_{31}Br_{10}$ (450°C) under visible light.

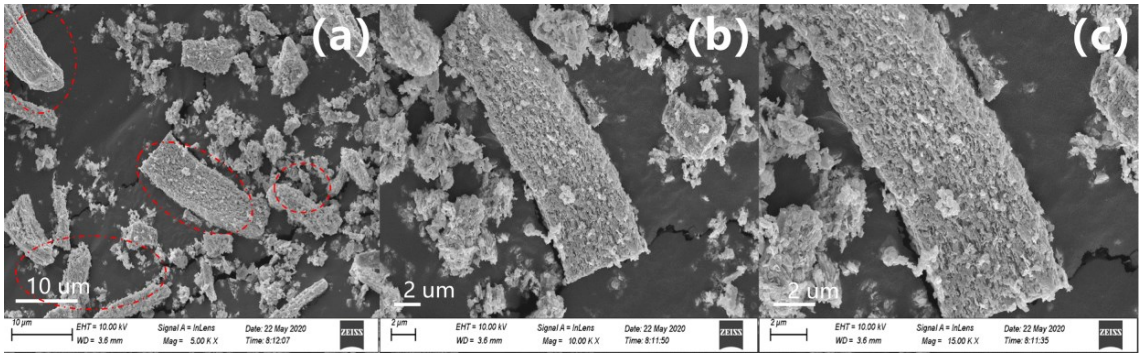

Fig. S5 SEM images of $BiOBr/Bi_{24}O_{31}Br_{10}$ (450°C) after 4 reuse cycles (the magnification of (a, b, c) is 5 KX, 10 KX, and 15KX respectively).

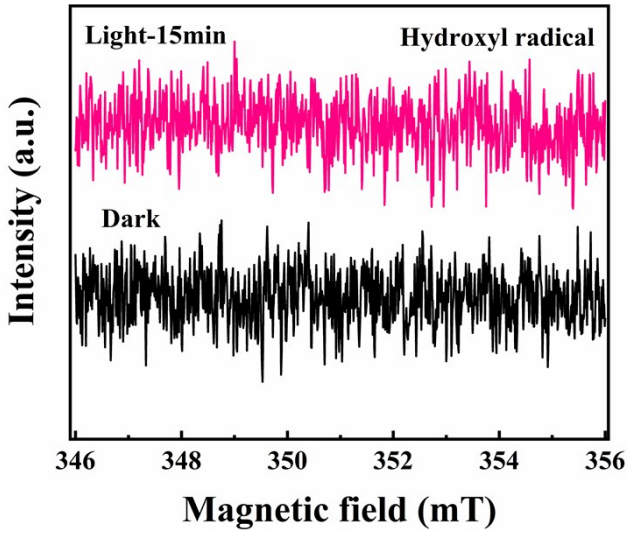

Fig. S6 The ESR spectra of DMPO-•OH adducts over BiOBr/$Bi_{24}O_{31}Br_{10}$ (450°C) in the dark and under visible-light irradiation.