Electronic Supplementary Material (ESI) for RSC Advances.

Supporting Information

Solvothermal synthesis of graphene-$BiOCl_{0.75}Br_{0.25}$ microspheres with excellent visible-light photocatalytic activity

Yang Liu [a, b], Xingzhong Yuan [a, b *], Hou Wang [a, b], Xiaohong Chen [c], Shansi Gu [a, b], Qian Jiang [a, b], Zhibin Wu [a, b], Longbo Jiang [a, b], Yan Wu,[d] Guangming Zeng [a, b]

[a] College of Environmental Science and Engineering, Hunan University, Changsha 410082, PR China

[b] Key Laboratory of Environment Biology and Pollution Control, Hunan University, Ministry of Education, Changsha 410082, PR China

[c] School of Business, Central South University, Changsha 410083, PR China

[d] College of Environment and Energy, South China University of Technology, Guangzhou 510006, P.R. China

[*] Corresponding author at: College of Environmental Science and Engineering, Hunan University, Changsha 410082, PR China. Tel.: +86 731 88821413; fax: +86 731 88823701.
E-mail address: yxz@hnu.edu.cn (X.Z. Yuan)

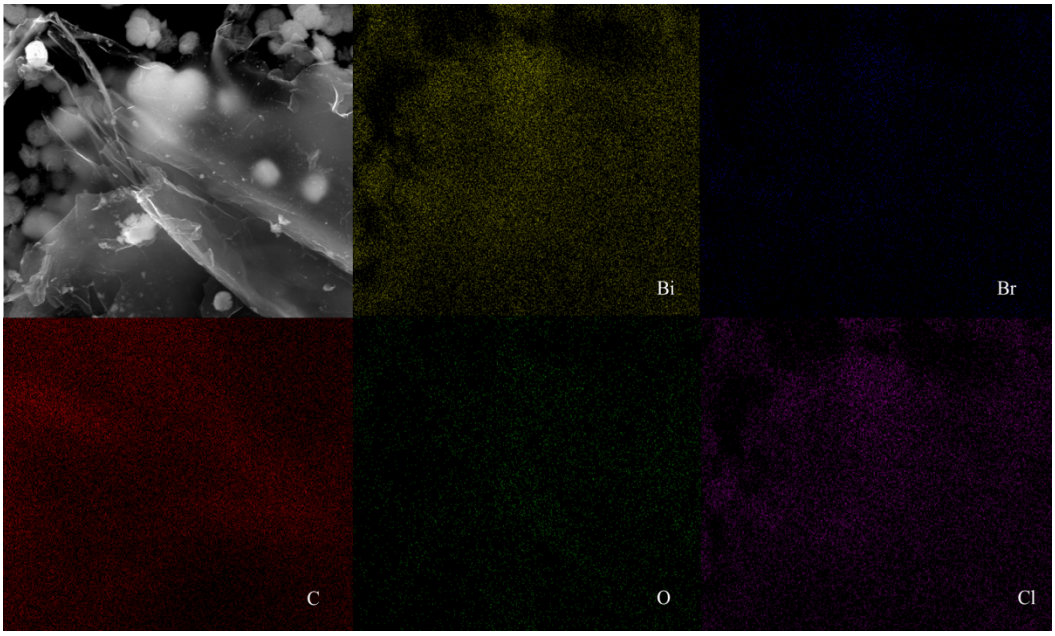

Fig.S1. The elemental mapping of the BG5.0 sample.

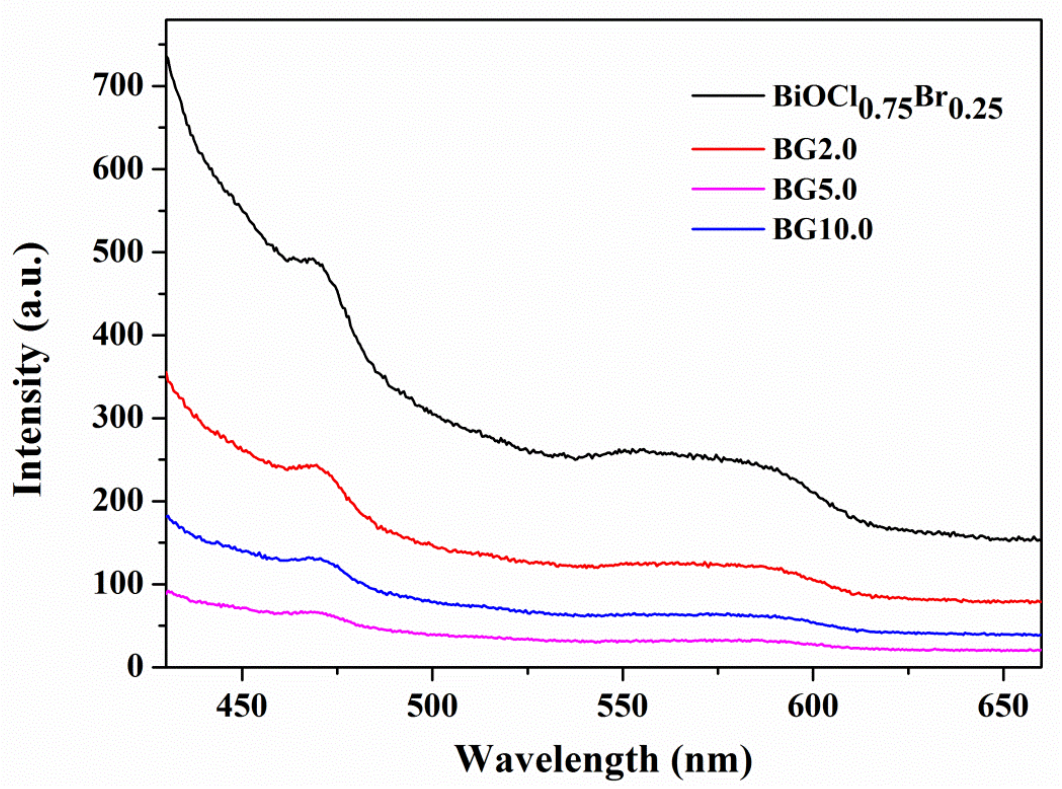

Fig.S2. PL spectra of the $BiOCl_{0.75}Br_{0.25}$ and BG hybrids.

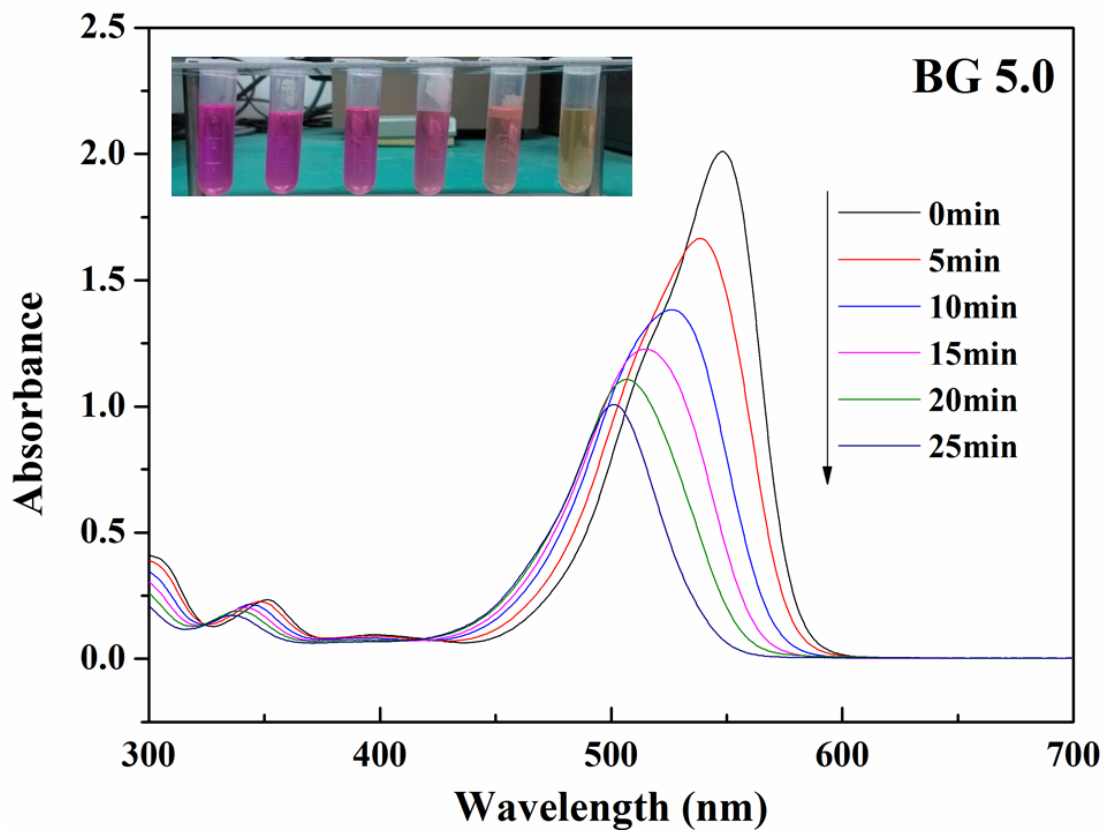

Fig.S3. Temporal evolution of the spectra during the photodegradation of RhB mediated by BG 5.0. The inset is the optical image of the Rhodamine B after different interval of degradation.