Electronic Supplementary Material (ESI) for RSC Advances.

Supporting Information

Synthesis of Core-Shell Structured Ag_3PO_4@Benzoxazine Soft Gel Nanocomposites and their Photocatalytic Performance

Yue Hu, Shaping Huang, Xinsheng Zheng*, Feifei Cao*, Ting Yu, Geng Zhang, Zhidong Xiao, Jiangong Liang, Yichi Zhang

Department of Chemistry, College of Science, Huazhong Agricultural University, Wuhan 430070, P. R. China.

Corresponding Author:

Email: xszheng@mail.hzau.edu.cn; caofeifei@mail.hzau.edu.cn

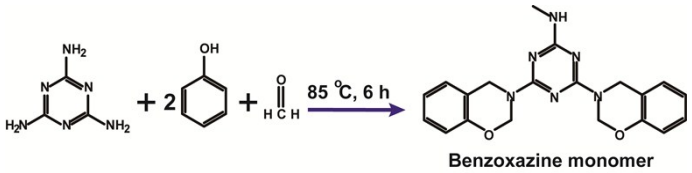

Fig. S1 Synthetic procedure for the benzoxazine monomer.

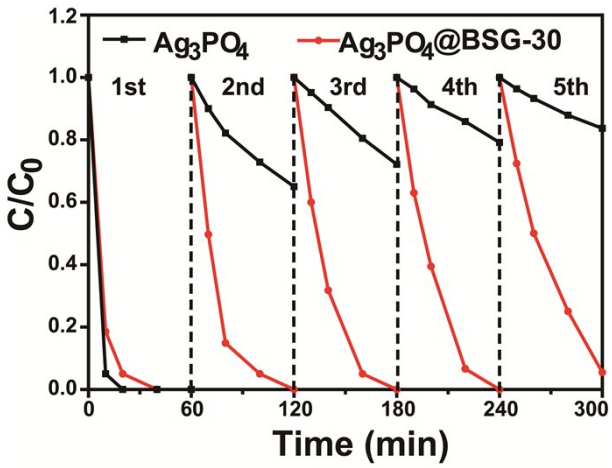

Fig. S2 Photocatalytic stabilities of the bare Ag_3PO_4 and the Ag_3PO_4@BSG-30 nanocompisite as photocatalysts for the degradation of methyl orange (4mg/L) under simulated sunlight irradiation .

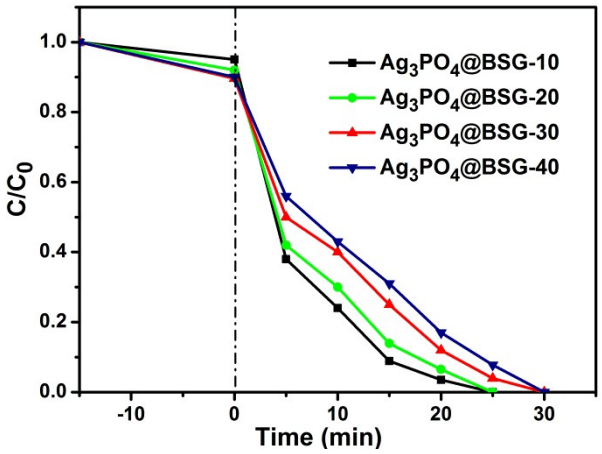

Fig. S3 Photocatalytic activity of the Ag_3PO_4@BSG-X (10, 20, 30, 40) nanocomposites as photocatalysts for the degradation of RhB under visible light irradiation.

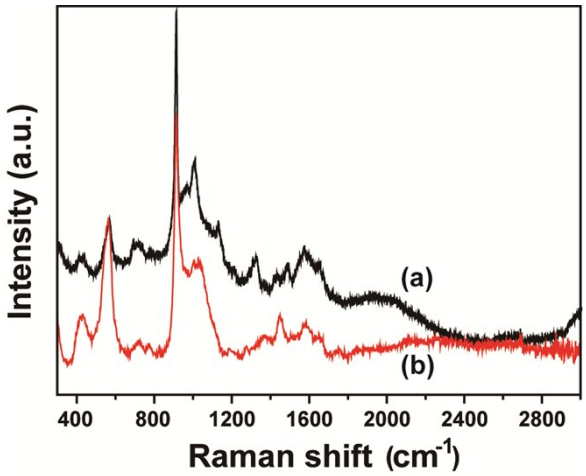

Fig. S4 Raman spectra of (a) the fresh Ag_3PO_4@BSG-30 nanocomposites and (b) after using.