Supplementary Information

Improved visible light photocatalytic properties of Fe/BiOCl microspheres synthesized via a self-doped reactable ionic liquids

Jiexiang Xia, [a] Li Xu, [c] Jing Zhang, [a] Sheng Yin, [a] Huaming Li, [*, a] Hui Xu [b] and Jun Di [a]

[a] School of Chemistry and Chemical Engineering, Jiangsu University, 301 Xuefu Road, Zhenjiang, 212013, PR China

[b] School of the Environment, Jiangsu University, 301 Xuefu Road, Zhenjiang, 212013, PR China

[c] School of Material Science and Engineering, Jiangsu University, Zhenjiang, 212013, PR China

E-mail: lhm@ujs.edu.cn, Tel: 86-511-88791108, Fax: 86-511-88791108

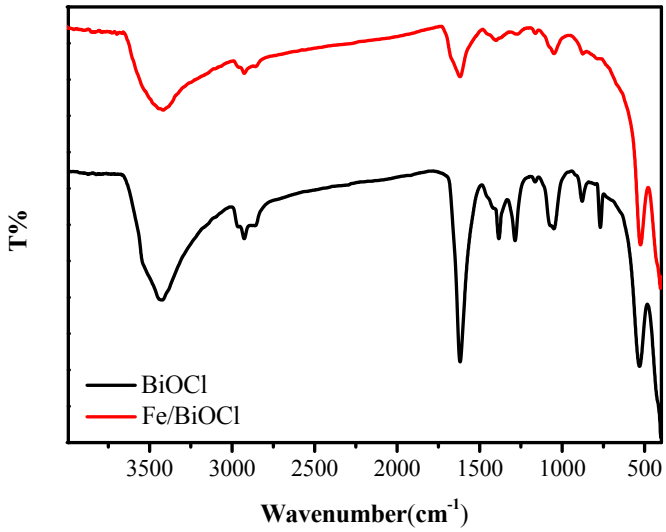

Figure. S1 FT-IR analysis of Fe/BiOCl and pure BiOCl samples.

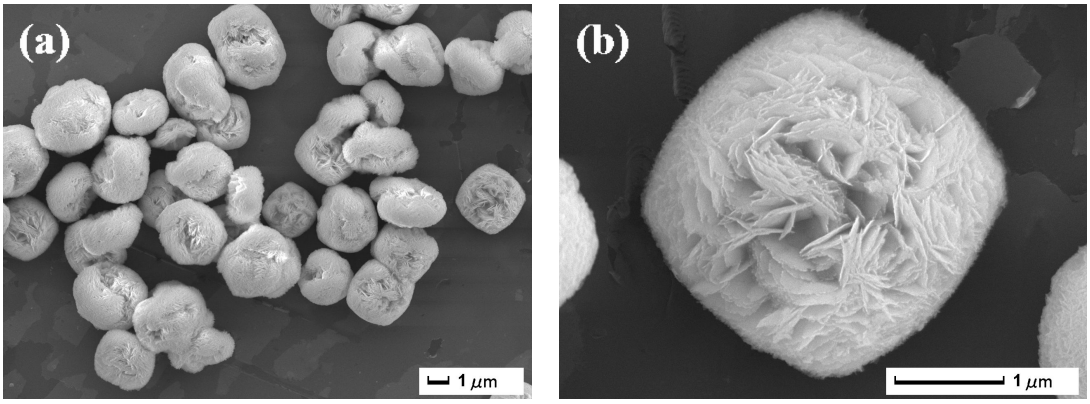

Figure S2 SEM images of the BiOCl microspheres structures synthesized at 140 °C in the presence of ionic liquid [Omim]Cl

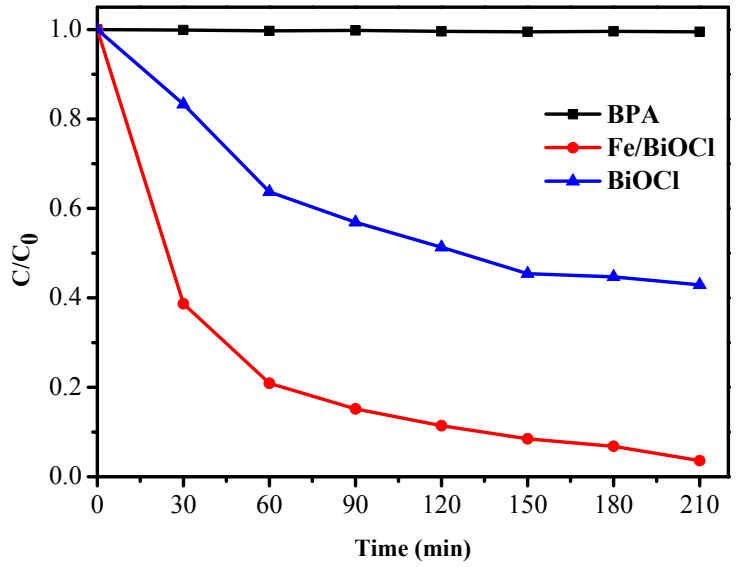

Figure S3 Photocatalytic degradation of BPA in the presence of BiOCl, Fe/BiOCl and photolysis of BPA under visible light irradiation