Supporting Information

Multiple Halide Anions Doped Layered Bismuth Terephthalate with Excellent Photocatalysis for Pollutants Removal

Xinyun Zhao,*a Huihui Chen, Xi Chen, Juncheng Hu, Tsung-hsueh Wu, Lamei Wu, Mei Lia

^aKey Laboratory of Catalysis and Materials Science of the State Ethnic Affairs Commission & Ministry of Education, South-Central University for Nationalities, Wuhan 430074, PR China

^bDepartment of Chemistry, University of Wisconsin-Platteville, Platteville, 53818, USA



Fig. S1 A perspective view of Bi2O2 layer within bismuth terephthalate (a) and BiOCl (b). Bi (purple); O (red); C (grey); Cl (green)

Figure S2-S8 list IR spectra of T1, T2, T3, T4, T5, Terephthalic acid and bismuth terephthalate. Figure S8 is XRD patterns of different hybrids. Figure S9-S13 list the results of EDS analysis of T1, T2, T3, T4 and T5.





Fig S4. IR of T3



Fig S5. IR of T4



Fig S6. IR of T5



Fig S7. IR of Terephthalic acid



Fig S8. IR of bismuth terephthalate



Fig.S9. XRD patterns of ternary halide anions doped hybrids and BiBDC



Fig.S10. Low angle XRD patterns for T1 and control sample BiBDC)



Fig S11. Results of EDS analysis over T1



Fig S12. Results of EDS analysis over T2



Fig S13. Results of EDS analysis over T3



Fig S14. Results of EDS analysis over T4



Fig S15. Results of EDS analysis over T5