Supplementary Information

One-pot synthesis of micro/nano structured β-Bi₂O₃ with tunable morphology for highly efficient photocatalytic degradation of methylparaben under visible-light irradiation

Xin Xiao*, Ruiping Hu, Shunheng Tu, Chunxia Zheng, Huan Zhong, Xiaoxi Zuo, Junmin Nan*

School of Chemistry and Environment, South China Normal University; Guangzhou Key Laboratory of Materials for Energy Conversion and Storage, Guangzhou 510006, PR China

Corresponding author: Xin Xiao

Tel.: +86-20-39310255

Fax: +86-20-39310187

E-mail: <u>xiaox@scnu.edu.cn</u> (X. Xiao); <u>jmnan@scnu.edu.cn</u> (J. Nan)

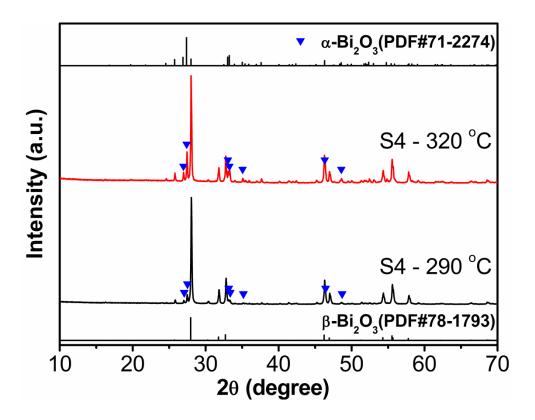


Fig. S1. XRD patterns of sample S4 after calcined at 290 and 320 °C.

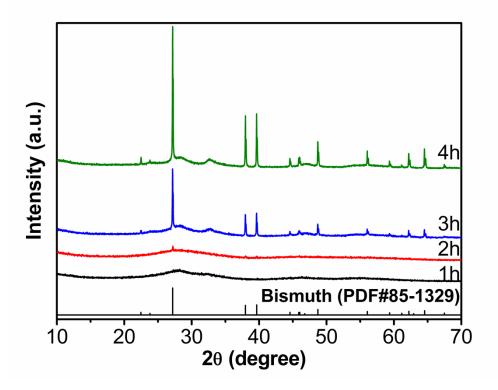


Fig. S2. XRD patterns of the precursors of sample S1 after solvothermal reaction for 1, 2, 3, and 4 h, respectively.

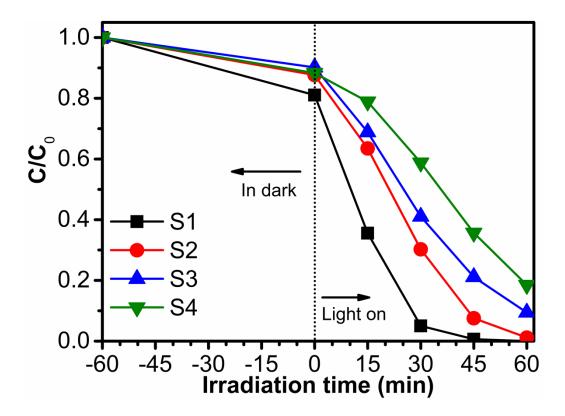


Fig. S3. Removal percentage of MeP combined by adsorption and photodegradation.

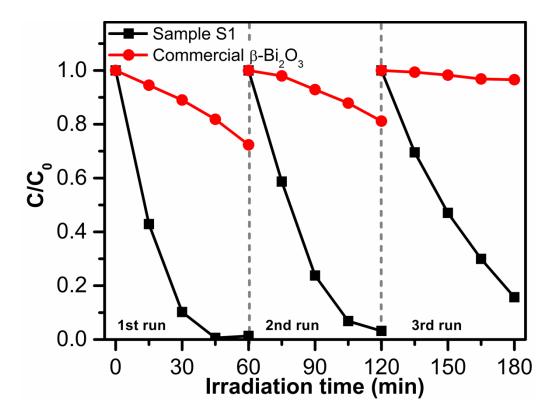


Fig. S4. Reuse of the as-synthesized sample (sample S1).

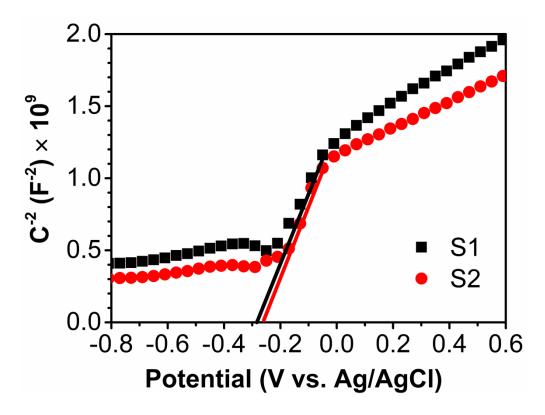


Fig. S5. Mott-Schottky plots obtained for the films electrodes prepared with as-synthesized samples S1 and S2.

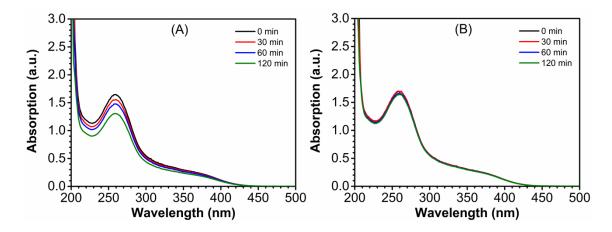


Fig. S6. Photodegradation of nitroblue tetrazolium (NBT) over as-synthesized sample S1 calcined at (A) 290 °C (β -Bi₂O₃) and (B) 500 °C (α -Bi₂O₃) under visible-light irradiation.