

One Step Synthesis of Oxygen Defective Bi@Ba₂TiO₄/BaBi₄Ti₄O₁₅ Microsheet with Efficient Photocatalytic Activity for NO Removal

Ting Gao¹, Ke Zhang^{1*}, Qiuhui Zhu¹, Qingyun Tian¹, Hui Wang¹, Wei Zhang¹, Jiangyushan Liang¹, Jingqi Lin¹, Ahmed A Allam², Jamaan S Ajarem³, Peter K. J. Robertson⁴, Chuanyi Wang^{1*}

¹*School of Environmental Science and Engineering, Shaanxi University of Science and Technology, Xi'an 710021, China*

²*Zoology Department, Faculty of Science, Beni-Suef University, Beni-Suef, Egypt*

³*Zoology Department, College of Science, King Saud University, Riyadh, Saudi Arabia*

⁴*School of Chemistry and Chemical Engineering, Queen's University Belfast, Stranmillis Road, Belfast BT9 5AG, United Kingdom*

* Corresponding author.

E-mail addresses: wangchuanyi@sust.edu.cn (C. Wang)

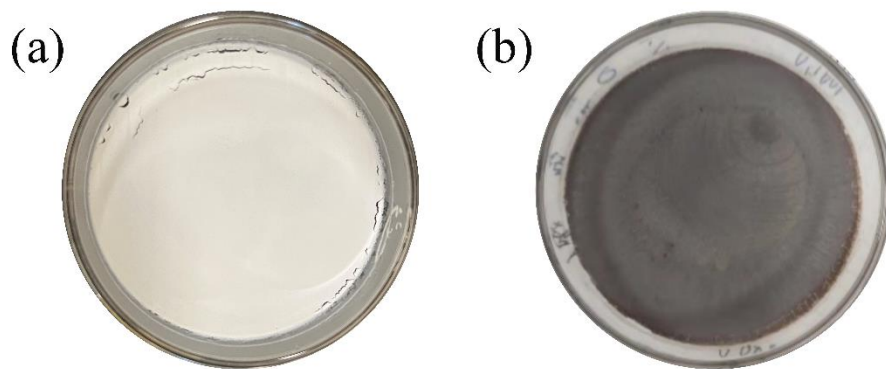


Figure S1. The optical images of (a)BT/BBT and (b)BT/BBT-0.1 uniform films.

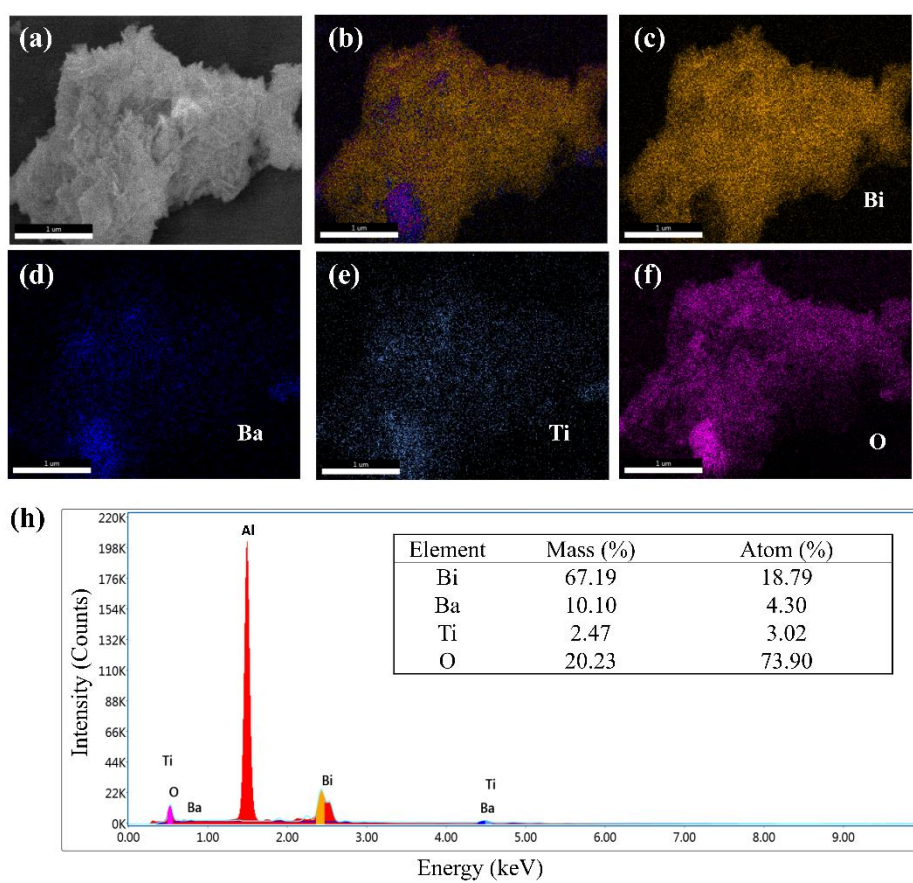


Figure S2. Morphology of BT/BBT-0.1 composite: (a) SEM images, (b) Element Overlay images, elemental mapping of (c) Bi element, (d) Ba element, (e) Ti element, and (f) O element, and (h) EDX images.

The Al element is detected on the surface of BT/BBT-0.1, which is because the sample is placed on aluminum foil sheets for test.