

SUPPORTING INFORMATION

Synthesis of one-dimensional WO₃-Bi₂WO₆ heterojunctions with enhanced photocatalytic activity

Yin Peng^{*a}, Qing-Guo Chen^a, Dan Wang^a, Hai-Yan Zhou^a and An-Wu Xu^{*b}

^aThe Key Laboratory of Functional Molecular Solids, Ministry of Education, College of Chemistry and Materials Science, Anhui Normal University, Wuhu 241000, China

^bDivision of Nanomaterials and Chemistry, Hefei National Laboratory for Physical Sciences at Microscale, Department of Chemistry, University of Science and Technology of China, Hefei 230026, P. R China.
Fax: (+86) 551-6360 2346; E-mail: anwuxu@ustc.edu.cn

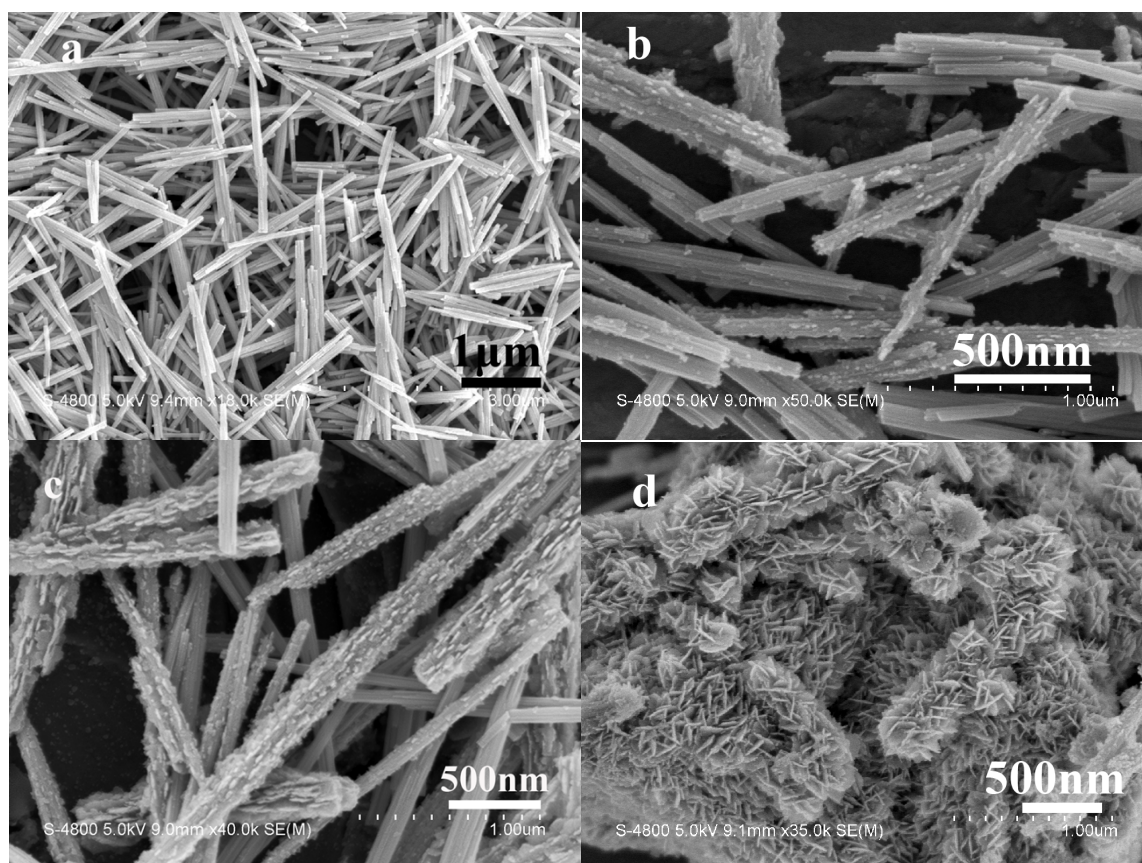
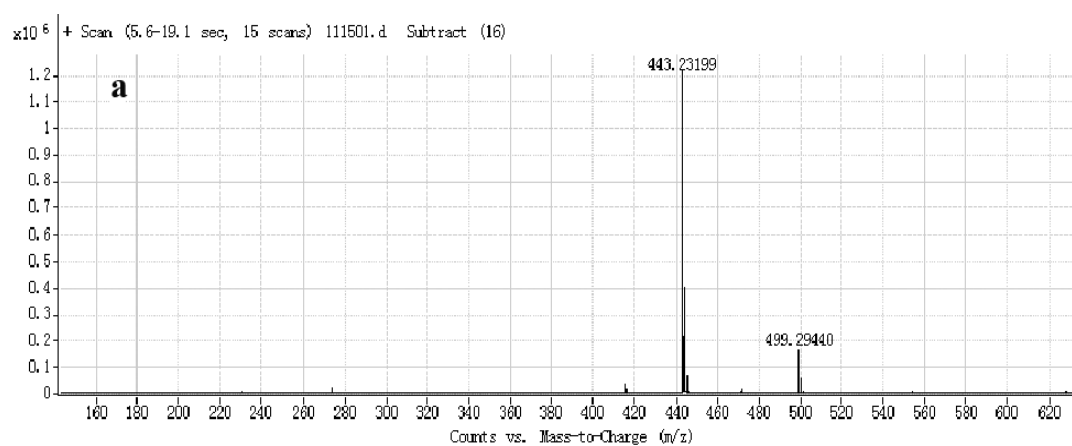


Fig. S1 Low magnification SEM images of (a) pure WO_3 , (b) S1, (c) S2 and (d) S3.

Table S1. Surface areas and pore volumes of different Samples

Samples	BET surface area ($\text{cm}^2 \text{g}^{-1}$)	pore volume ($\text{cm}^3 \text{g}^{-1}$)
S1	15.135	0.0786
S2	23.102	0.147
S3	17.252	0.0755
WO_3	27.390	0.0913
Bi_2WO_6	15.426	0.102



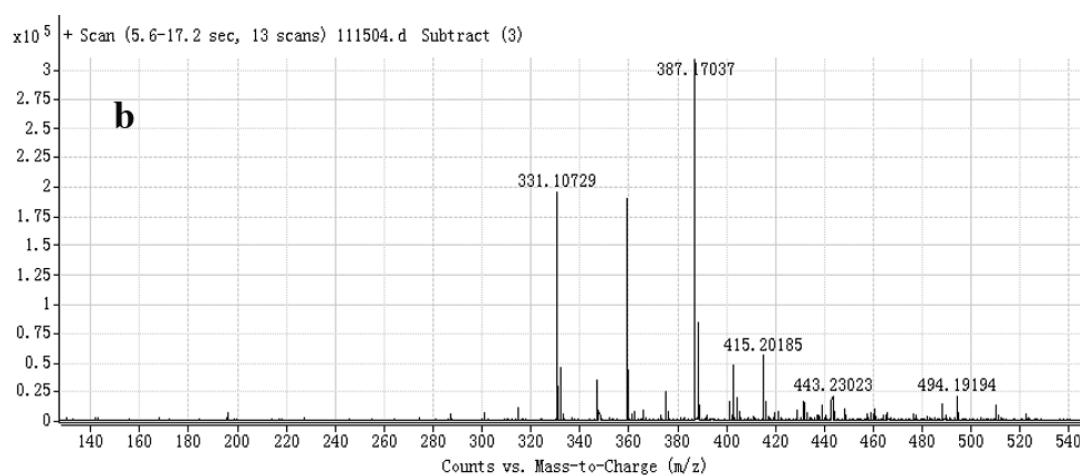


Fig. S2 The mass spectra of butyl rhodamine before (a) and after (b) being irradiated for 0.5 h in the presence of S2 photocatalyst.

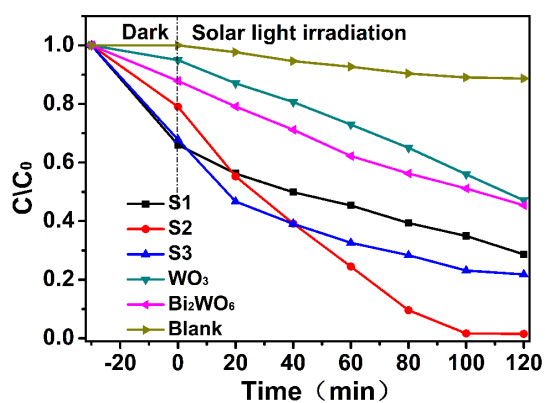


Figure S3. The degradation curves of phenol using different photocatalysts under solar light irradiation.