## **Supporting Information for**

## Novel Yellow Light Responsive SnO<sub>2</sub>/SnS<sub>2</sub> Piezo-photocatalyst with

Excellent Performances for Tooth Whitening and Biofilms

## Eradication

Jiahe Song<sup>a,b#</sup>, Shiping Yuan<sup>a,b#</sup>, Shujuan Liu<sup>\*a,b</sup>, Yunsong Wang<sup>a,b</sup>, Bocan Yang<sup>a,b</sup>, Linwan Ji<sup>a,b</sup>, Liangcan He<sup>\*b,c</sup>, Shaoqin Liu<sup>\*b,c</sup>

<sup>a</sup> School of Materials Science and Engineering, Harbin Institute of Technology, Harbin 150001, P. R. China

<sup>b</sup> Key Laboratory of Micro-Systems and Micro-Structures Manufacturing, Ministry of Education, Harbin Institute of Technology, Harbin 150001, P. R. China

<sup>c</sup> School of Medicine and Health, Harbin Institute of Technology, Harbin 150001, P. R. China

# These authors contributed equally to this work.

\* The corresponding author.

Email: liusj0817@hit.edu.cn, liangcanhe@hit.edu.cn, shaoqinliu@hit.edu.cn.



**Figure S2**. The antibacterial activity of different samples under the same yellow light illumination and ultrasonic treatment. (a) Control; (b)  $\text{SnO}_2$ ; (c)  $\text{SnS}_2$ ; (d)  $\text{SnO}_2/\text{SnS}_2$ ; (e) The statistical number of CFU of (a-d).