

# Synthesis of a Two-Dimensional Molybdenum Disulfide Nanosheet and Ultrasensitive Trapping of *Staphylococcus Aureus* for Enhanced Photothermal and Antibacterial Wound-Healing Therapy

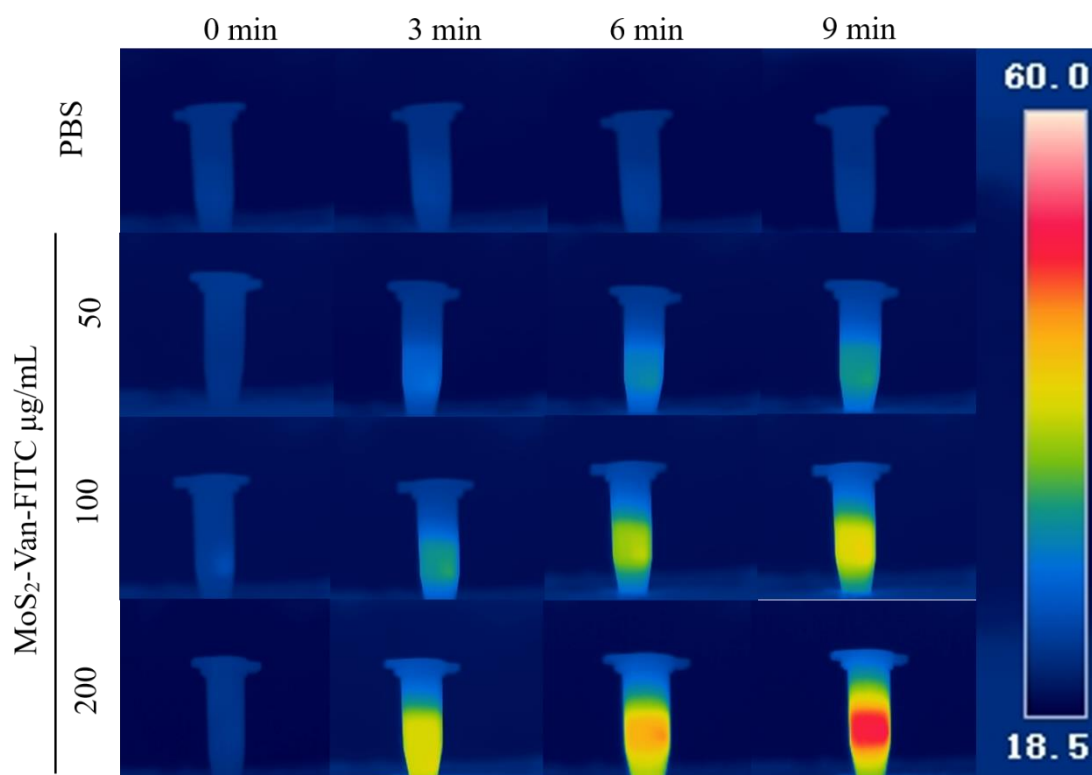
Weiwei Zhang <sup>1,†</sup>, Zhao Kuang <sup>1,†</sup>, Ping Song <sup>1</sup>, Wanzhen Li <sup>1</sup>, Lin Gui <sup>2</sup>, Chuchu Tang <sup>1</sup>, Yugui Tao <sup>1,\*</sup>, Fei Ge <sup>1,\*</sup> and Longbao Zhu <sup>1,\*</sup>

<sup>1</sup> School of Biological and Food Engineering, Anhui Polytechnic University, Wuhu 241000, China; zwwjcf0908@163.com (W.Z.); kz827478890@163.com (Z.K.); songping1987@foxmail.com (P.S.); liwanzhen129@126.com (W.L.); tangcc2333@126.com (C.T.);

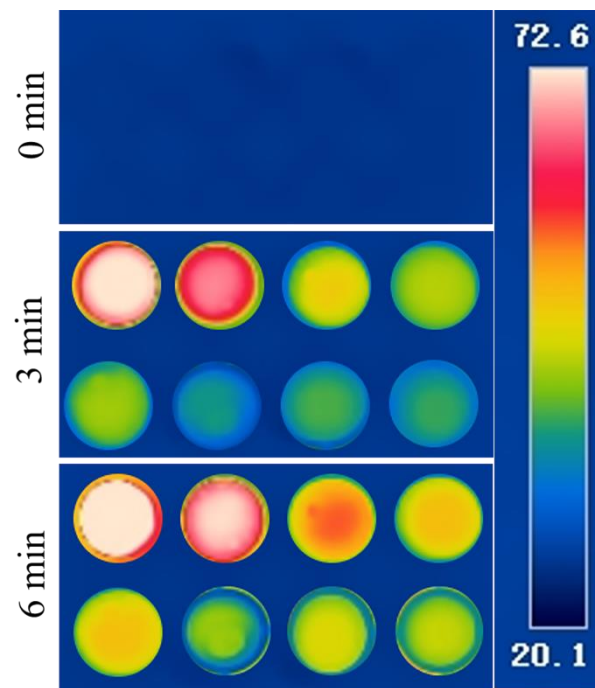
<sup>2</sup> Department of Microbiology and Immunology, Wannan Medical College, Wuhu 241002, China; guilin729@126.com

\* Correspondence: swgctaoyg@126.com (Y.T.); gerrylin@126.com (F.G.); lbzhu2008@126.com (L.Z.)

† These authors contributed equally to this work.



**Figure S1.** The thermal imaging images of MoS<sub>2</sub>-Van-FITC@CS at different concentrations (50, 100 and 200 µg/mL) and NIR irradiation (808 nm; 2 W/cm<sup>2</sup>). PBS served as a control.



**Figure S2.** Thermal images of the test in MIC.