

Electronic Supplementary Information (ESI)

Silicon-Based Antibacterial Material of Robust and High Antibacterial Activity

Yanfeng Zhou, Xiangxu Jiang, Jia Tang, Yuanyuan Su, Fei Peng, Yimei Lu, Rui Peng, and Yao He*

Institute of Functional Nano & Soft Materials (FUNSOM) and Jiangsu Key Laboratory for Carbon-Based Functional Materials & Devices, Soochow University, Suzhou 215123, China.

E-mail: yaohe@suda.edu.cn (Y. He)

Additional data

Fig. S1 shows the cumulated value of Ag^+ release from the AgNPs@Si into PBS or LB medium.

Fig. S2 shows stability of AgNPs@Si .

Fig. S3 shows the longevity of AgNPs@Si .

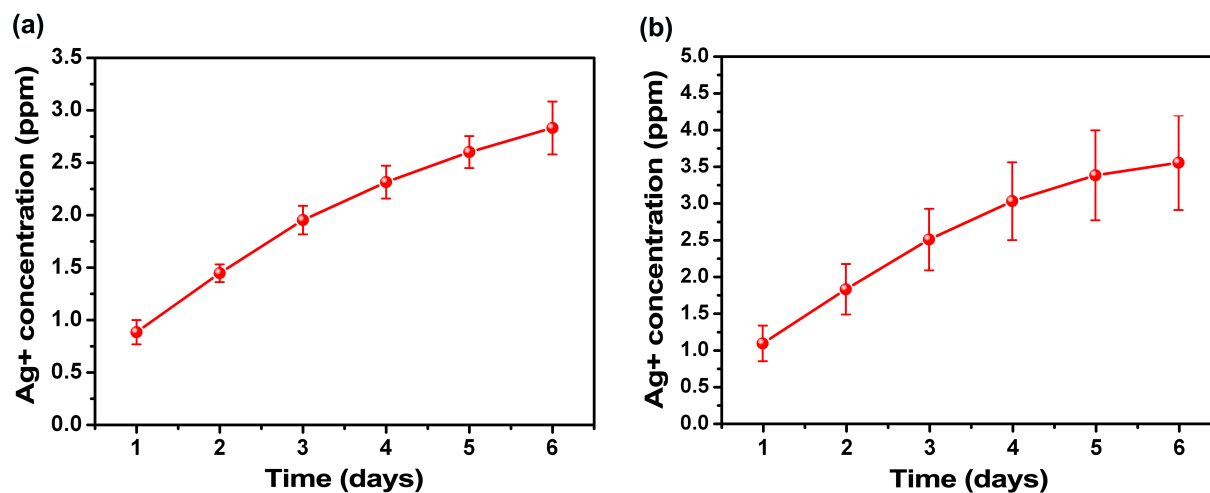


Fig. S1 The cumulated value of Ag^+ ions released from the AgNPs@Si dispersed into PBS buffer solution (a) or LB medium (b).

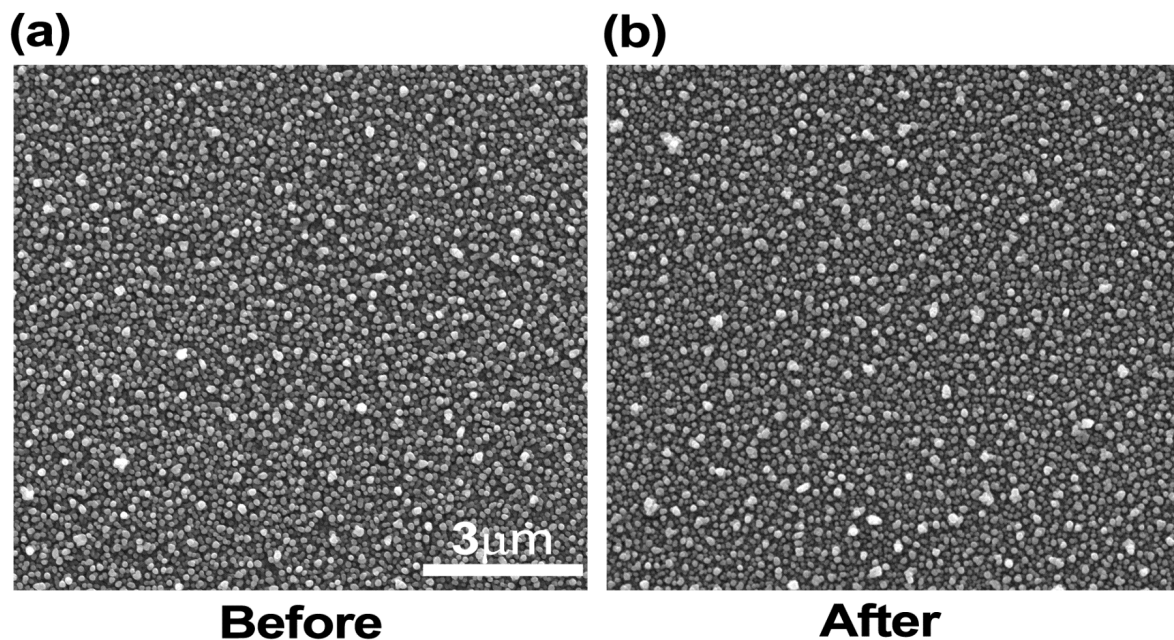


Fig. S2 SEM images AgNPs@Si morphology before (a) and after (b) immersing in LB medium in shaking incubator for 72 h.

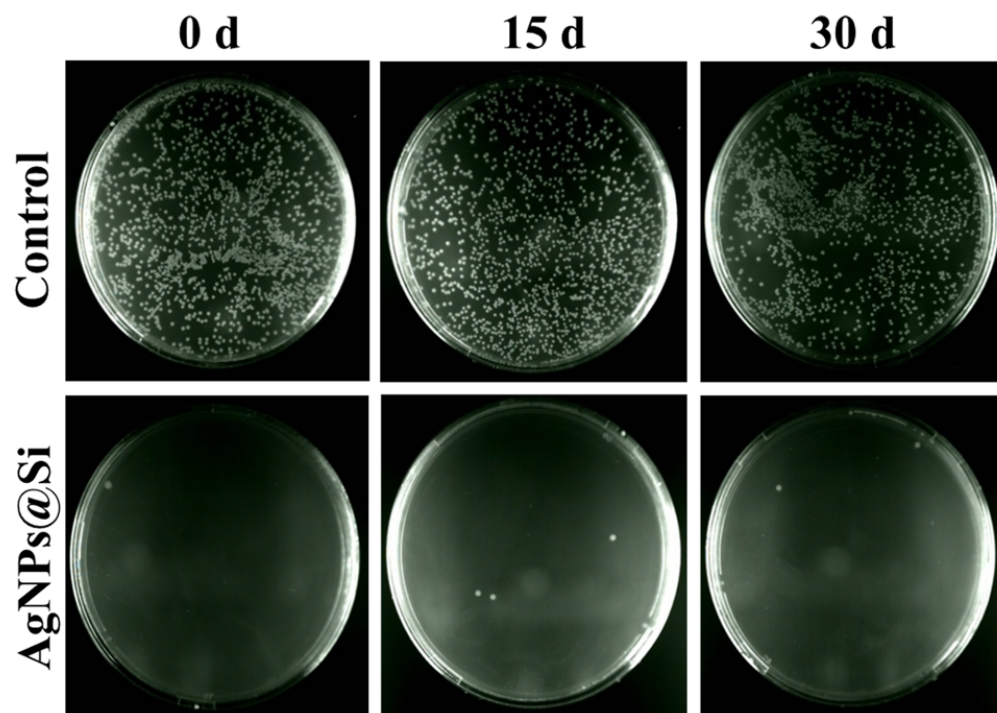


Fig. S3 Antibacterial activity of AgNPs@Si before and after 15- or 30-day storage at room temperature.