

Supporting Information

for

Fabrication of Cu-Ag Bimetal Nanotube- Based Copper Silicates for Enhancement of Antibacterial Activities

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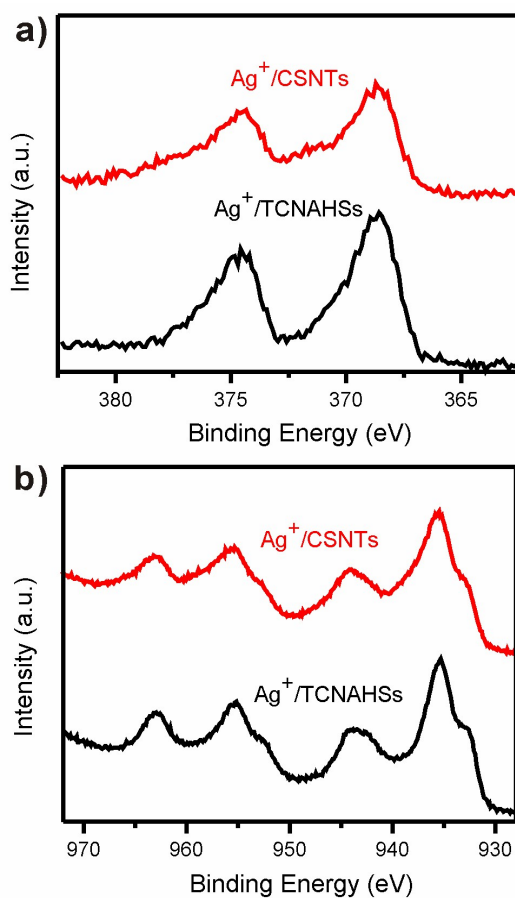


Figure S1. XPS spectra of Ag⁺/CSNTs and Ag⁺/CSNAHSs: (a) high-resolution spectra of Ag^{3d}, (b) high-resolution spectra of Cu^{2p}. The binding energy scale has been adjusted to the C1s line at 284.6 eV.

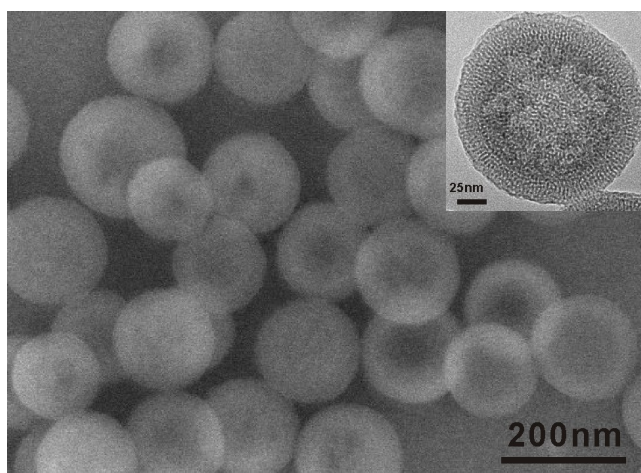


Figure S2. SEM images and TEM images (inset) of HMSHs.

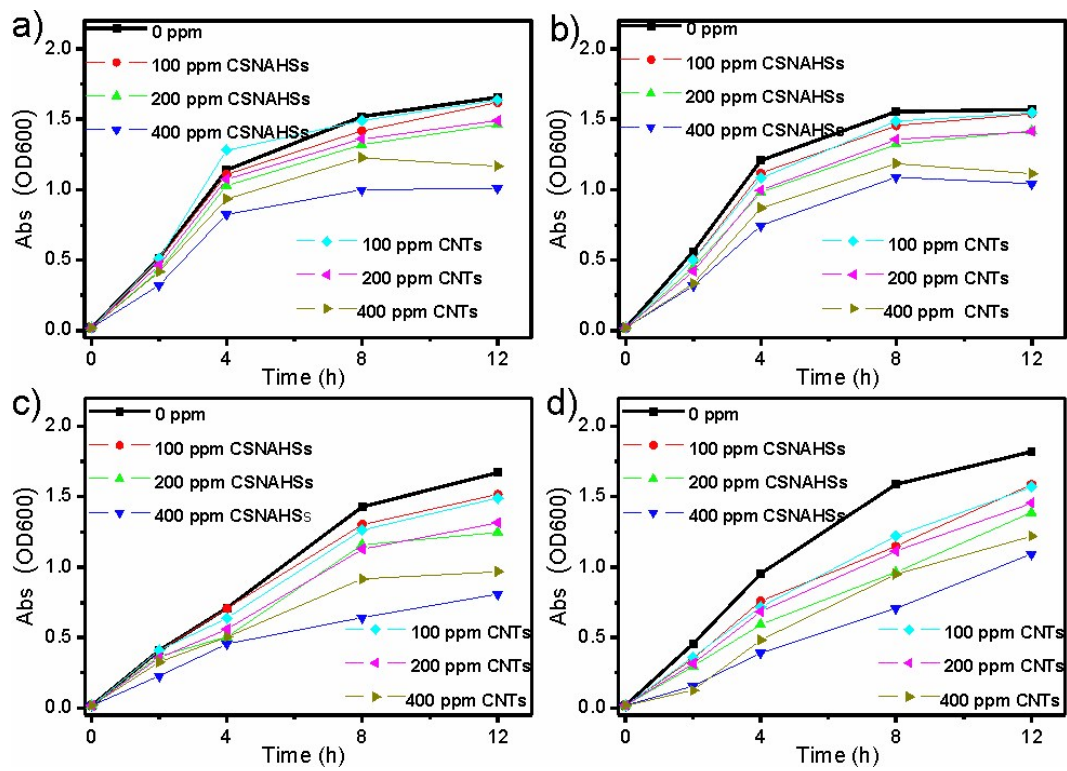


Figure S3. Bacterial growth curves in LB liquid medium inoculated with different concentrations of CSNTs or CSNAHSs. Gram-negative bacteria : (a) *E. coli* BL21 and (b) *E. coli* JM109; Gram-positive bacteria: (c) *B. subtilis* and (d) *S. aureus*.