

Supporting Information

Mild Synthesis of Copper Nanoparticles with Enhanced Oxidative Stability and Their Application in Antibacterial Films

Liangzhen Tang,^{#,a} Li Zhu,^{#,b} Fu Tang,^{*,a} Chuang Yao,^c Jie Wang,^a and Lidong Li^{*,a}

^aState Key Laboratory for Advanced Metals and Materials, School of Materials Science and Engineering, University of Science and Technology Beijing, Beijing 100083, China

^bDepartment of Otolaryngology, Peking University Third Hospital, Beijing 100191, China

^cKey Laboratory of Extraordinary Bond Engineering and Advanced Materials Technology (EBEAM) of Chongqing, Yangtze Normal University, Chongqing 408100, China.

Corresponding Author

*E-mail: lidong@mater.ustb.edu.cn (L.L.); tangfu@ustb.edu.cn (F. T.)

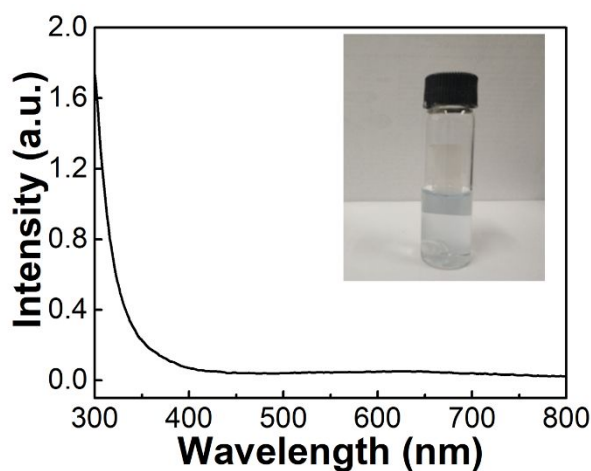


Figure S1. UV-vis spectrum of the reaction solution where DAS was replaced by an unmodified starch. The inset is the photograph of the corresponding reaction solution.

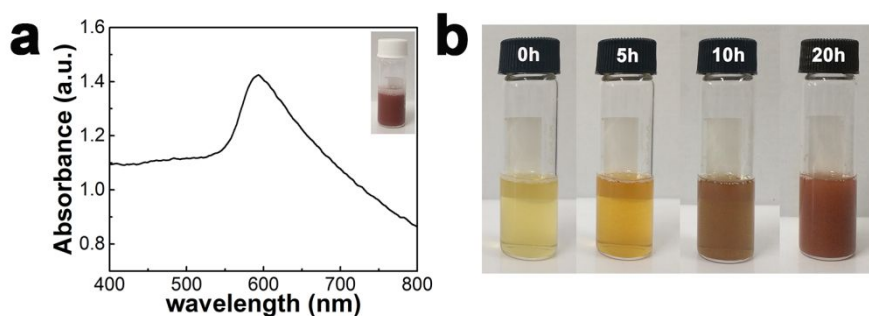


Figure S2. (a) UV-vis absorption spectrum of obtained Cu nanoparticles at room temperature after 20 h. (b) Photographs of reaction solutions at different times.

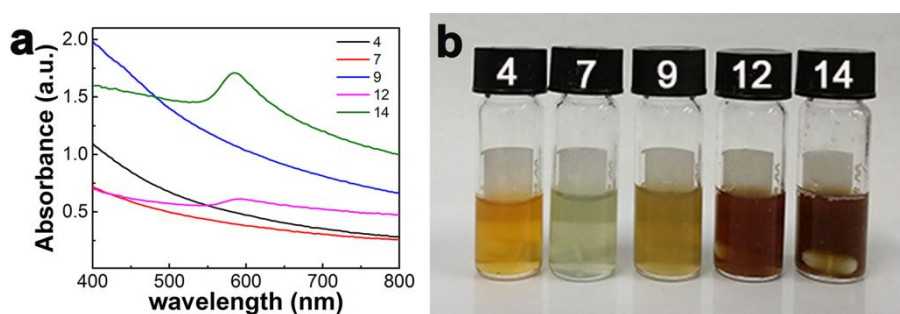


Figure S3. (a) UV-vis absorption spectra of reaction solution under different pH environments after incubation at 50 °C for 3 h (b) and corresponding photographs of reaction solutions.