

Supporting Information

Activity origin of core–shell and alloy AgCu bimetallic nanoparticles for oxygen reduction reaction

Nan Zhang ^a, Fuyi Chen^{*a}, Xiaoqiang Wu ^a, Qiao Wang ^a, Adnan Qaseem ^a and Zhenhai Xia^{*b}

^a *State Key Laboratory of Solidification Processing, Northwestern Polytechnical University, Xian, 710072, China.*

^b *Department of Materials Science and Engineering, Department of Chemistry, University of North Texas, Denton, TX 76203, USA.*

^{*}Corresponding author. Tel./fax: +86029-88492052. E-mail address: fuyichen@nwpu.edu.cn (Fuyi Chen)

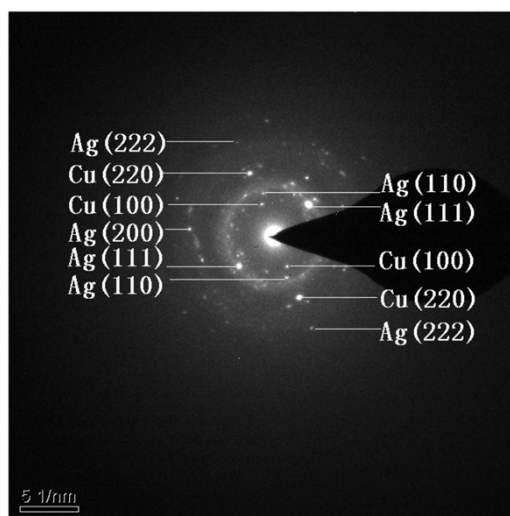


Fig. S1 Selected area diffraction patterns for AgCu nanocrystalline film.

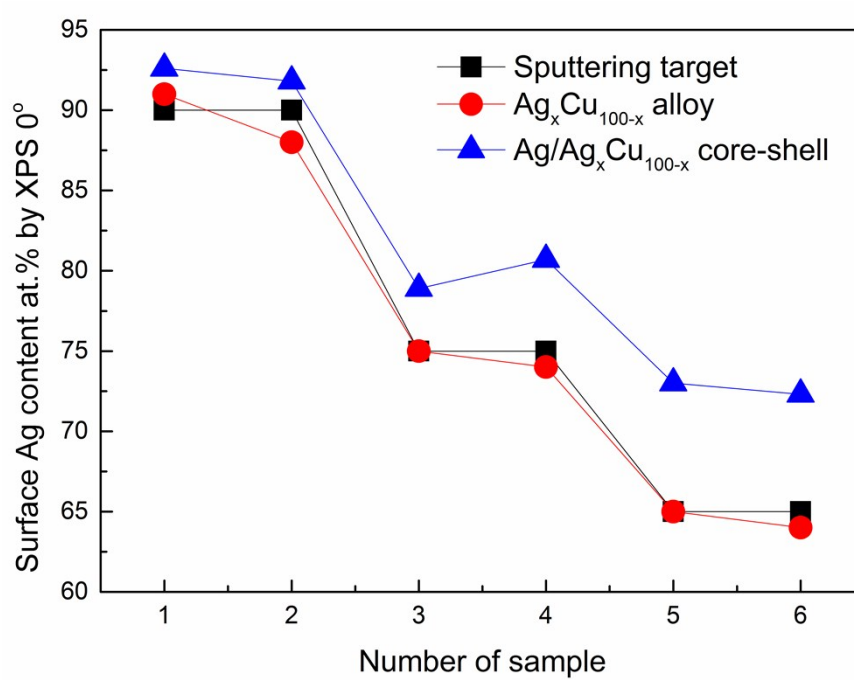


Fig. S2 Surface Ag content of Ag_xCu_{100-x} and Ag/Ag_xCu_{100-x} measured by XPS-0°.

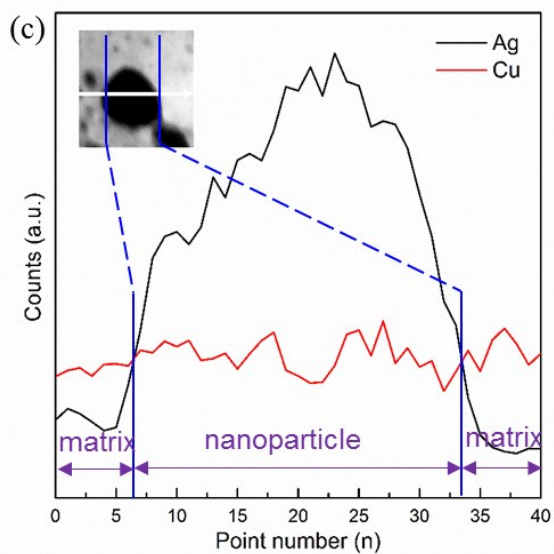


Fig. S3 STEM line-scanning of alloy Ag_3Cu nanoparticles.

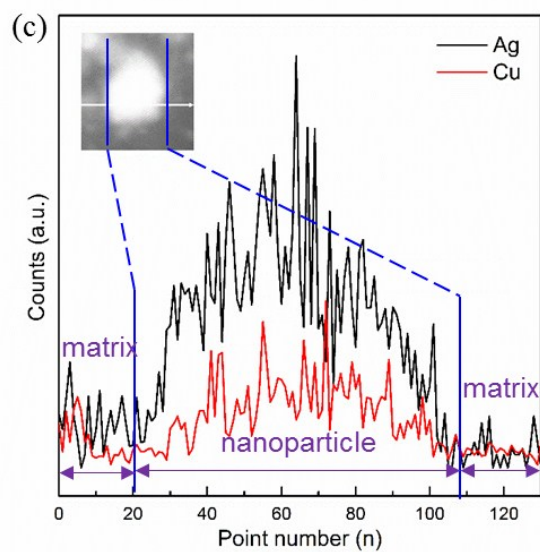


Fig. S4 STEM line-scanning of core-shell $\text{Ag}/\text{Ag}_3\text{Cu}$ nanoparticles.