

Electronic Supplementary Information

Simple polyol synthesis of porous coral-like palladium-silver alloy nanostructures with enhanced electrocatalytic activity for glycerol oxidation reaction

Pei Song, Jiu-Ju Feng, Fei-Ying Guo, Ai-Jun Wang*

College of Chemistry and Life Science, College of Geography and Environmental Science,

Zhejiang Normal University, Jinhua, 321004, China

**Corresponding author: ajwang@zjnu.cn (A. J. Wang), Tel./Fax: +86 579 82282269.*

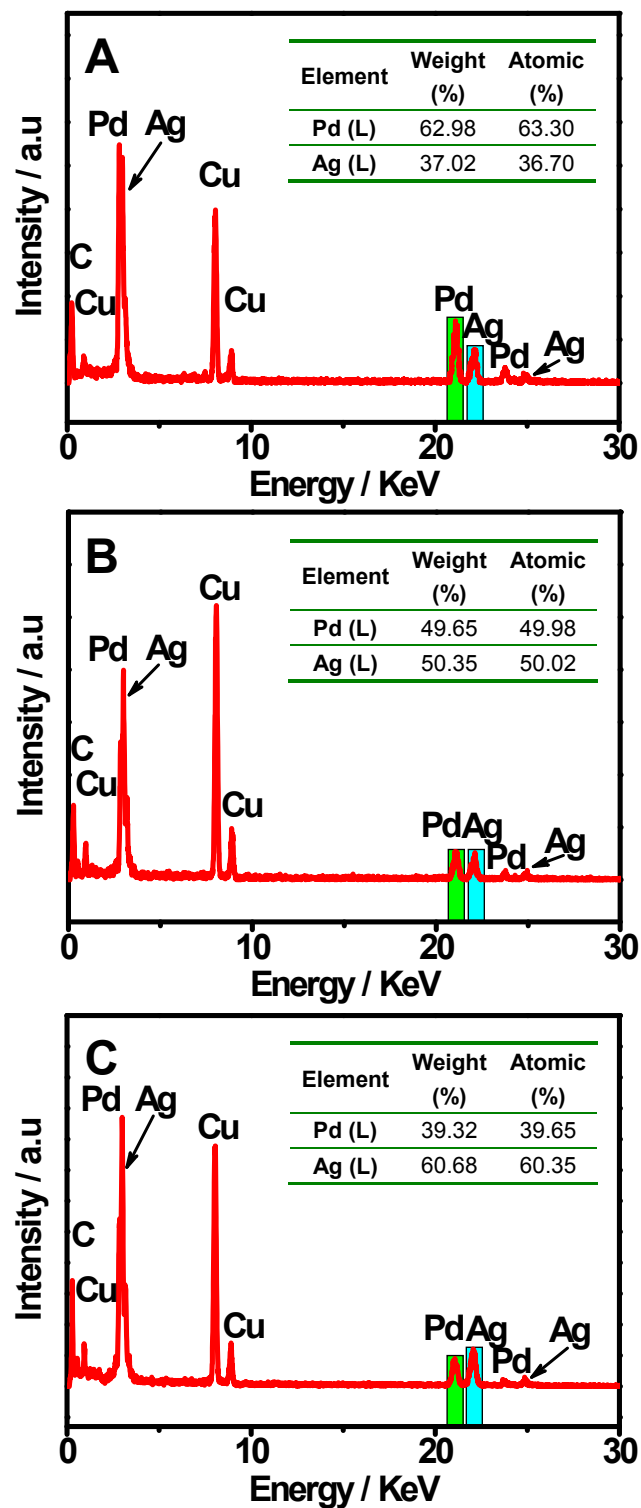


Fig. S1. EDS spectra of (A) Pd₆₃Ag₃₇ nanocorals, Pd₅₀Ag₅₀ (B), and Pd₄₀Ag₆₀ (C).

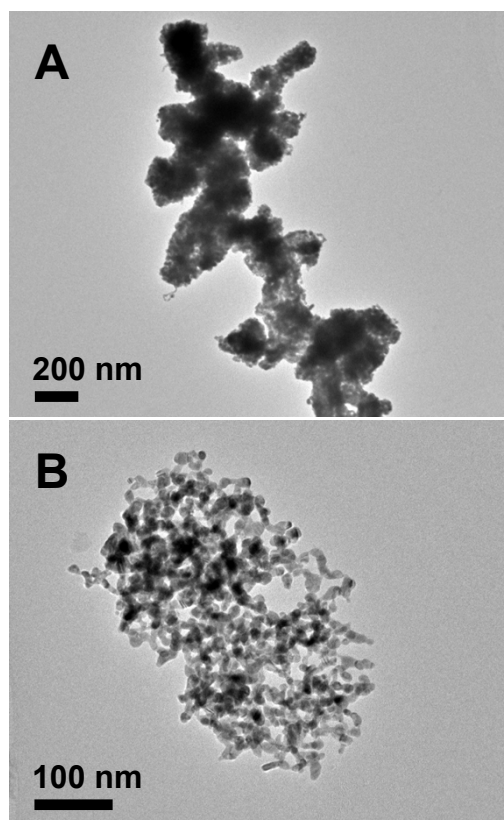


Fig. S2. TEM images of Pd₅₀Ag₅₀ (A) and Pd₄₀Ag₆₀ (B).

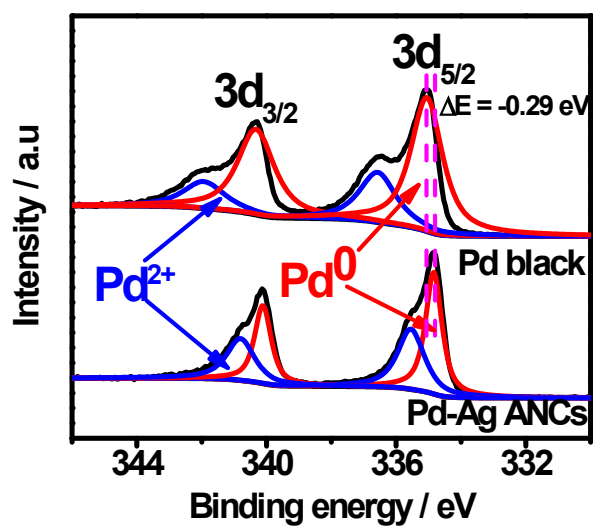


Fig. S3. High-resolution Pd 3d XPS spectra of $\text{Pd}_{63}\text{Ag}_{37}$ nanocorals and commercial Pd black.

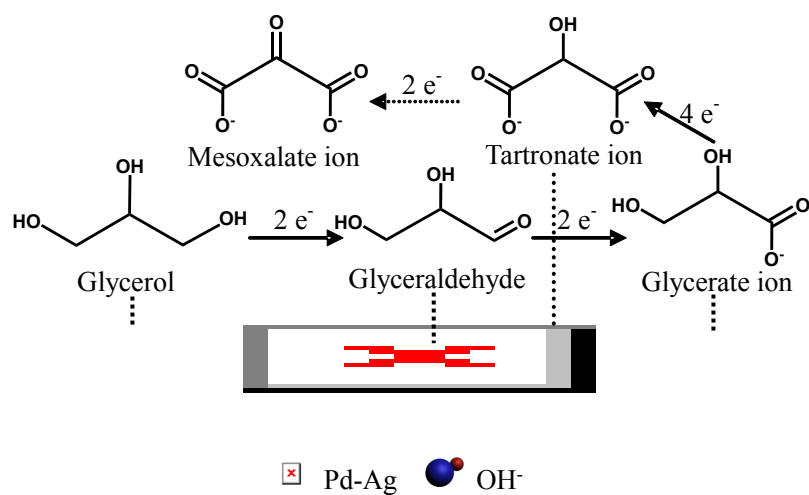


Fig. S4. Schematic illustration for glycerol electrooxidation on coral-like $\text{Pd}_{63}\text{Ag}_{37}$ nanocatalyst in alkaline media (Dashed arrows correspond to a possible progress of the reaction).