Electronic Supplementary Information

Facile synthesis of three-dimensional Pt-Pd alloyed multipods with enhanced electrocatalytic activity and stability for ethylene glycol oxidation

Jing-Jing Lv, Li-Ping Mei, Xuexiang Weng, Ai-Jun Wang*, Li-Li Chen, Xiang-Feng Liu, Jiu-Ju Feng*

College of Geography and Environmental Science, College of Chemistry and Life Science, Zhejiang Normal University, Jinhua 321004, China

**Corresponding Author: Tel./Fax:+86 579 82282269. Email: ajwang@zjnu.cn (AJW); jjfeng@zjnu.cn (JJF).*

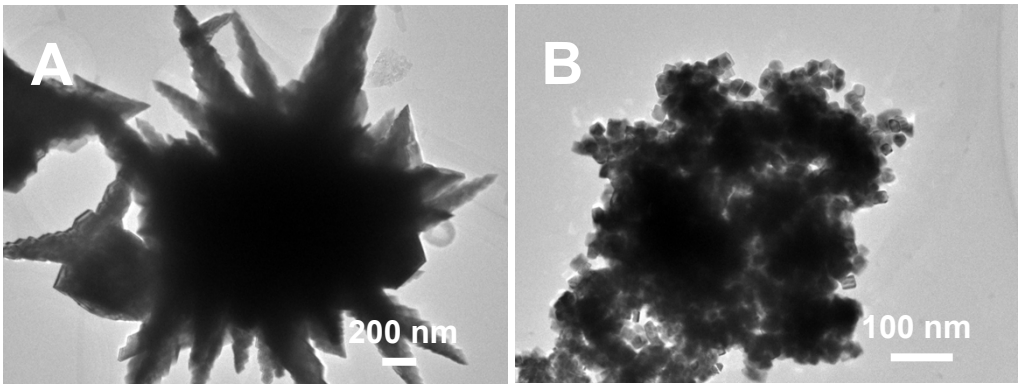

Figure S1 TEM images of the products collected in the absence of EG (A) and using DMF instead of EG (B).

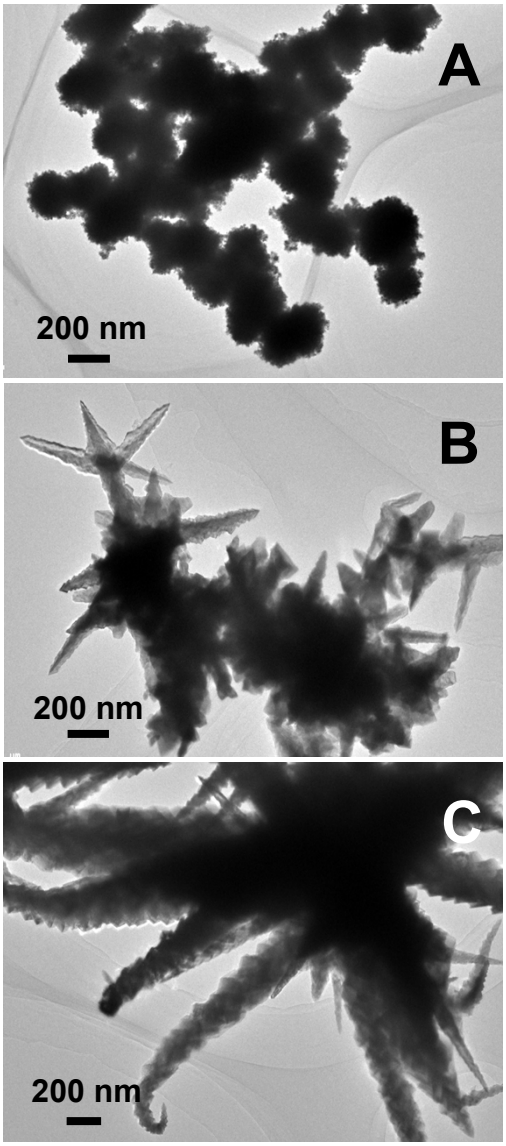

Figure S2 TEM images of the products collected without (A), and with 1.32 M (B) and 4.37 M (C) *N*-methylimidazole.

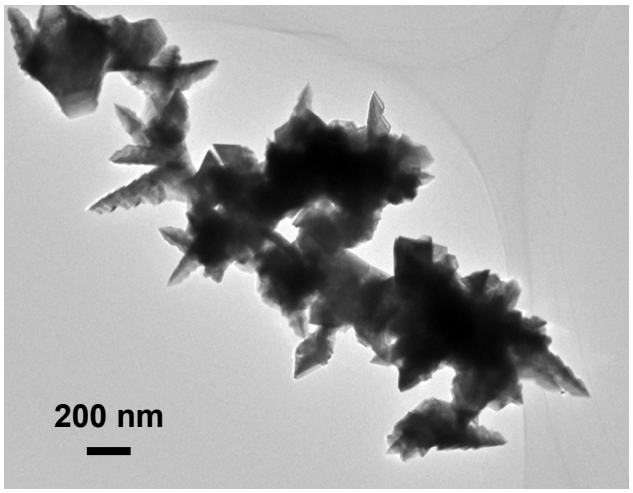

Figure S3 TEM image of the product collected by only using $PdCl_2$ as the precursor.

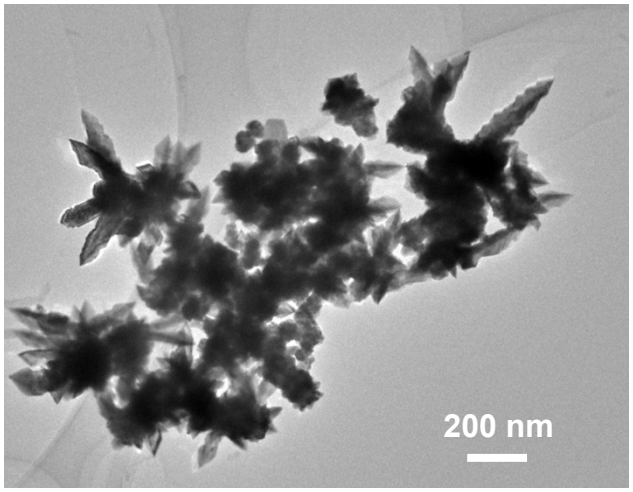

Figure S4 TEM image of the product collected by using $Pt(acac)_2$ and $Pd(acac)_2$ as the precursors.

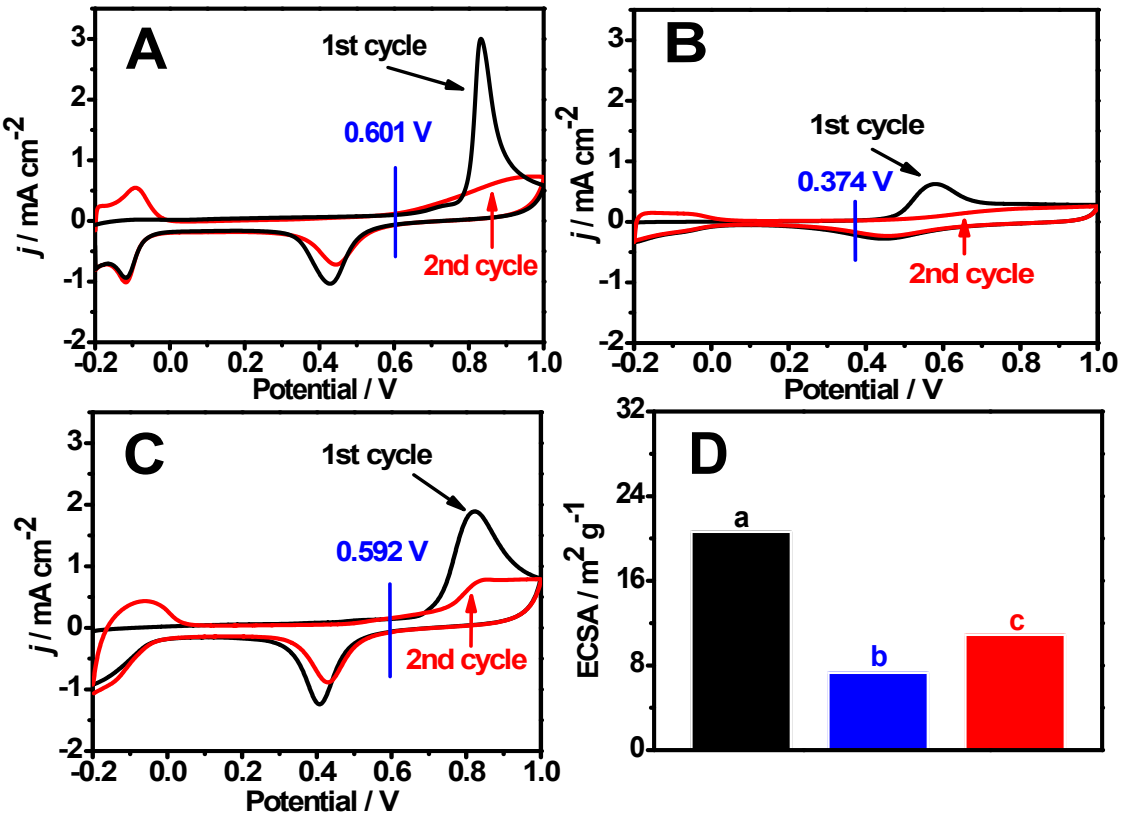

Figure S5 CO-stripping voltammograms of the Pt-Pd multipods (A), Pt black (B), and Pd black (C) catalyst-modified electrodes in 0.5 M H_2SO_4 at a scan rate of 50 mV s^{-1}. The ECSA (D) of Pt-Pd multipods (a), Pt black (b), and Pd black (c).

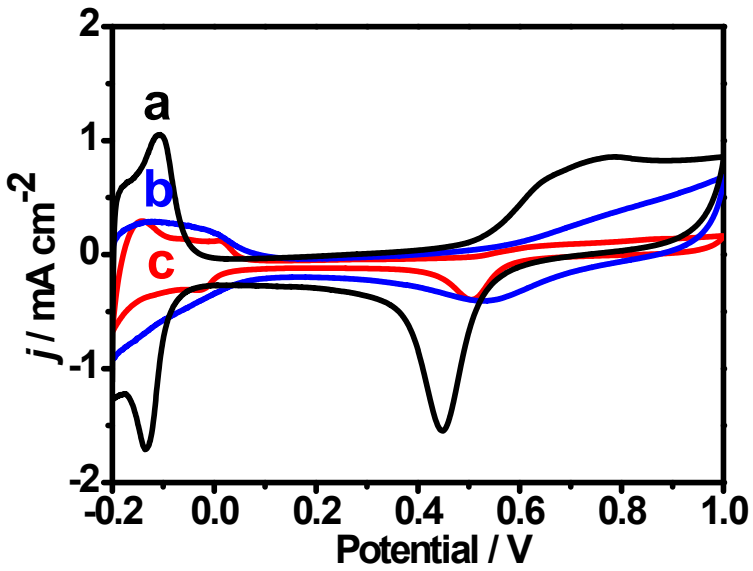

Figure S6 CVs of the Pt-Pd multipods (curve a), Pt black (curve b), and Pd black (curve c) catalyst-modified electrodes in 0.5 M H_2SO_4 at a scan rate of 50 mV s^{-1}.

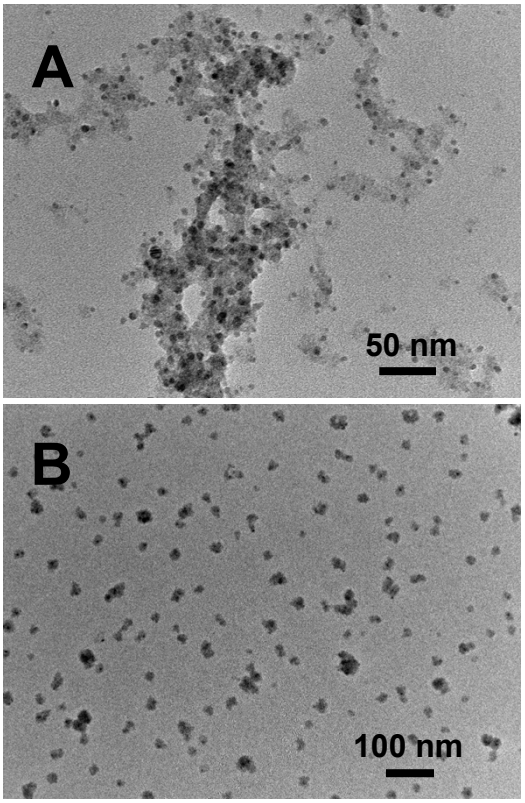

Figure S7 TEM images of Pt black and Pd black.