

Supplementary Information for
Raspberry-like Pd₃Pb alloy nanoparticles: Superior
electrocatalytic activity for ethylene glycol and glycerol
oxidation

Yujie Duan^a, Zhelin Liu^a, Bo Zhao^{a,*}, Jinghai Liu^b

*^a School of Chemistry & Environmental Engineering, Changchun University of
Science and Technology, Changchun, Jilin 130022, P.R. China*

*^b Inner Mongolia Key Laboratory of Carbon Nanomaterials, College of Chemistry
and Chemical Engineering, Nano Innovation Institute, Inner Mongolia University for
Nationalities, Tongliao, Inner Mongolia 028000, China*

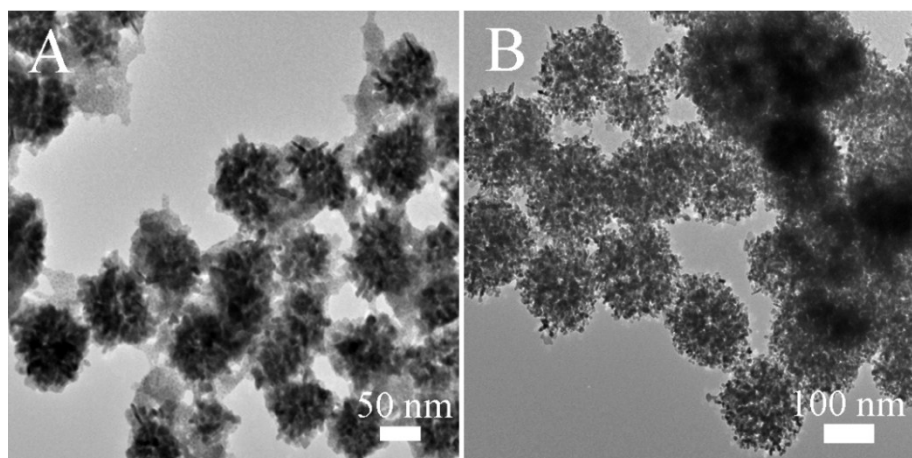


Fig. S1 Typical TEM images of PdPb (A) and PdPb₃ (B) nanomaterials.

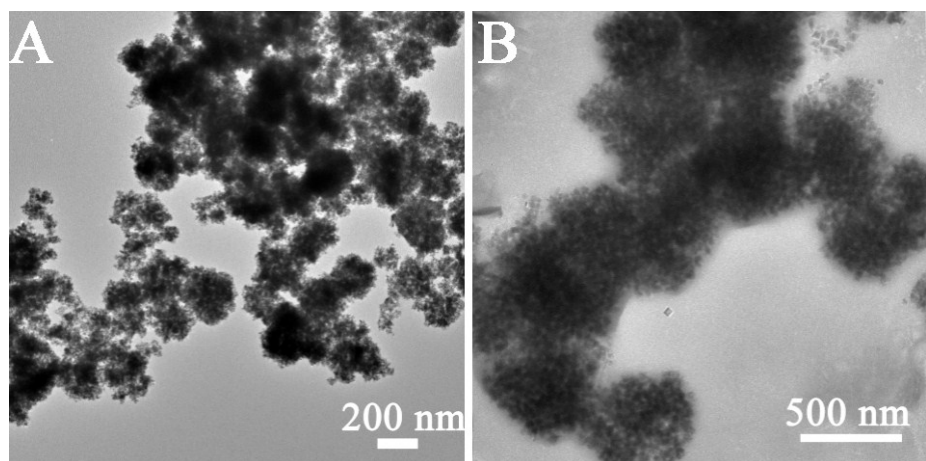


Fig. S2 Typical TEM images of products prepared without CTAC (A) or citric acid (B).

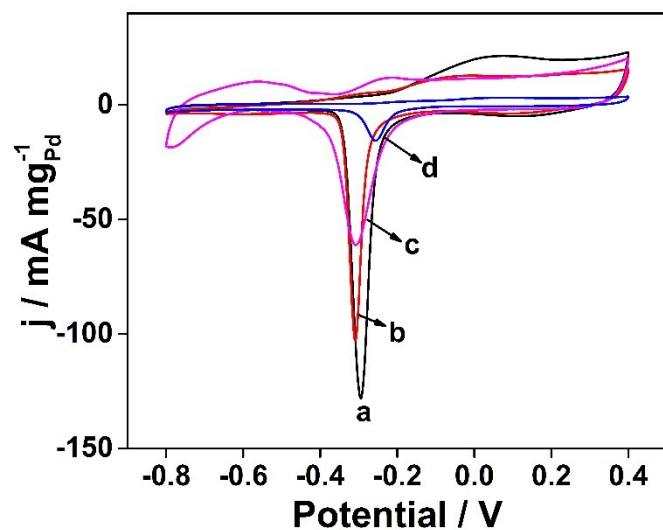


Fig. S3 CV curves of Pd₃Pb (a), PdPb (b), Pd (c) and PdPb₃ (d) modified GCEs in 1 M KOH at the scan rate of 50 mV s⁻¹.

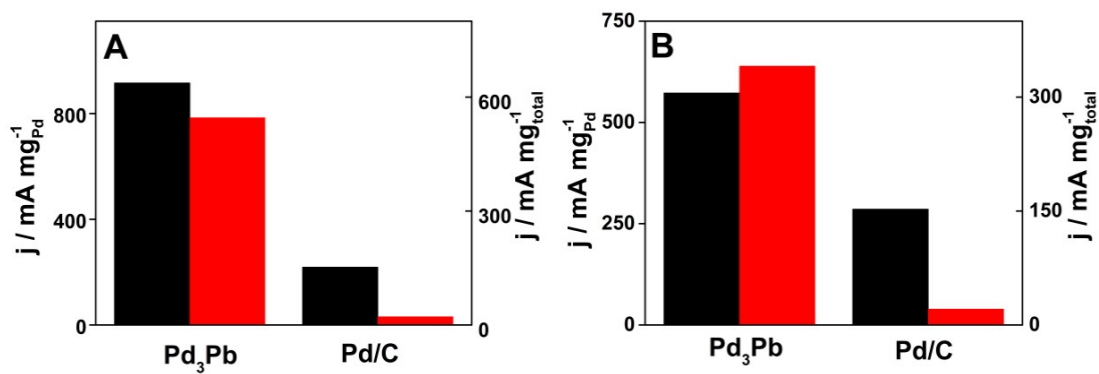


Fig. S4 Histograms of activities per unit Pd mass (left) or total mass (right) on Pd₃Pb alloy and commercial 10% Pd/C catalyst towards the electrooxidation of ethylene glycol (A) and glycerol (B).