

Supporting Information

Synthesis of well-dispersive 2.0 nm Pd-Pt bimetallic nanoclusters supported on β -cyclodextrin functionalized graphene with excellent electrocatalytic activity

Xin Ran^{a,1}, Long Yang^{a,1}, Qing Qu^{a,*}, Shunling Li^a, Ying Chen^b, Limei Zuo^a, Lei
Li^{b,*}

^a School of Chemical Science and Technology, Yunnan University, Kunming 650091,
China.

^b Laboratory for Conservation and Utilization of Bio-Resources, Yunnan University,
Kunming, 650091, China.

¹These authors contributed equally to this work.

* Corresponding authors.

Tel.: +86 871 65035798; fax: +86 871 65036538.

E-mail: quqing@ynu.edu.cn (Q. Qu); leelei@ynu.edu.cn (L. Li)

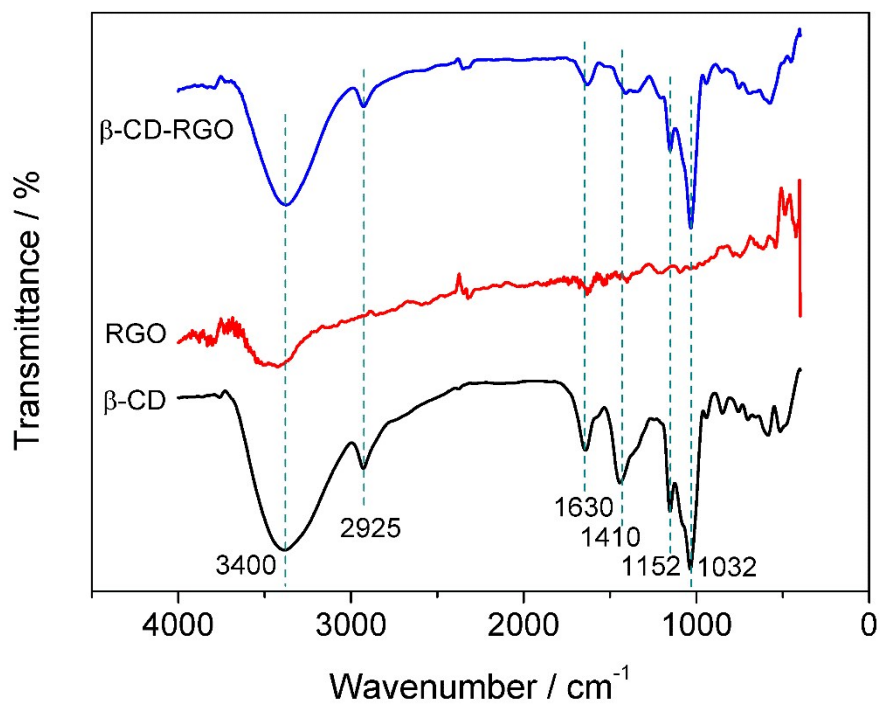


Fig. S1 FTIR spectra of β -CD, RGO, and β -CD-RGO.

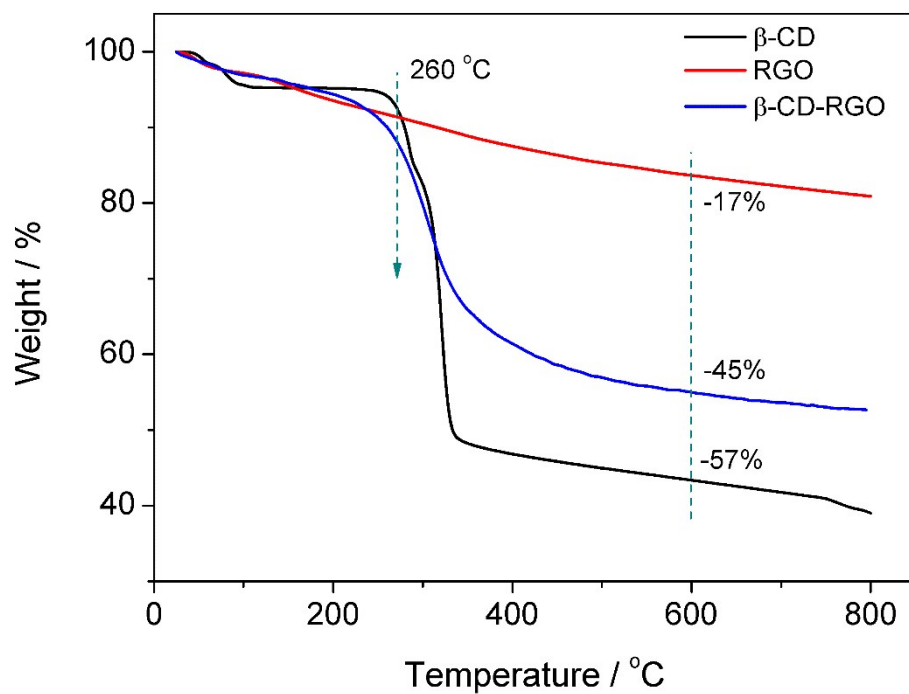


Fig. S2 TGA curves of β -CD, RGO, and β -CD-RGO.

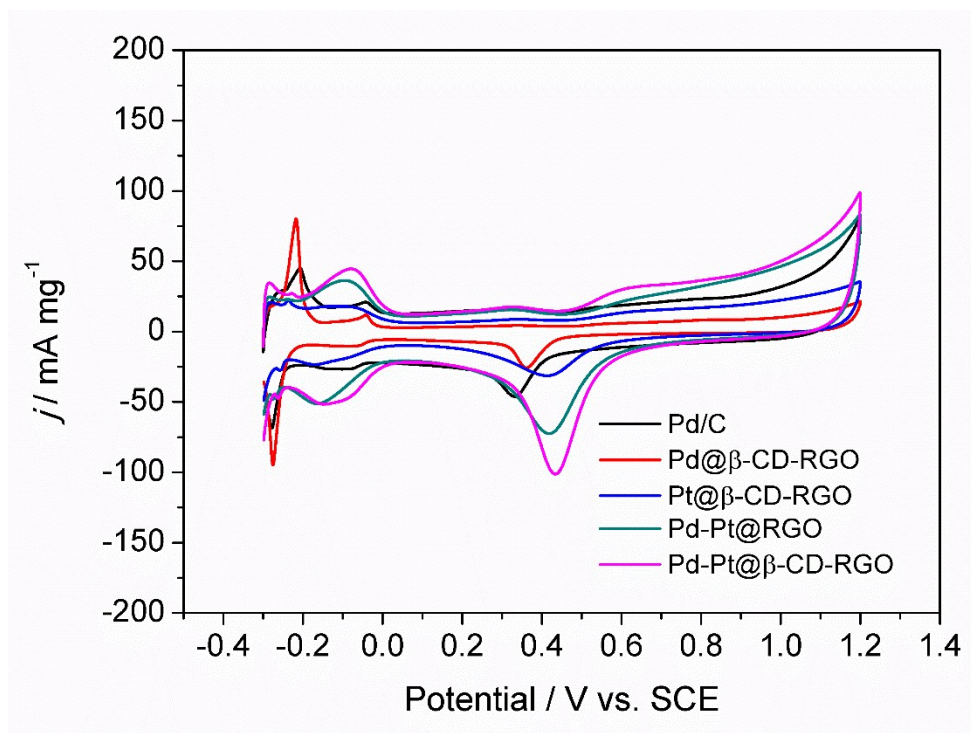


Fig. S3 CV curves of Pd/C, Pd@ β -CD-RGO, Pt@ β -CD-RGO, Pd-Pt@RGO, and Pd-Pt@ β -CD-RGO catalysts modified GCE in a N_2 saturated 0.5 M H_2SO_4 solution at the scan rate of 50 mV s^{-1} .

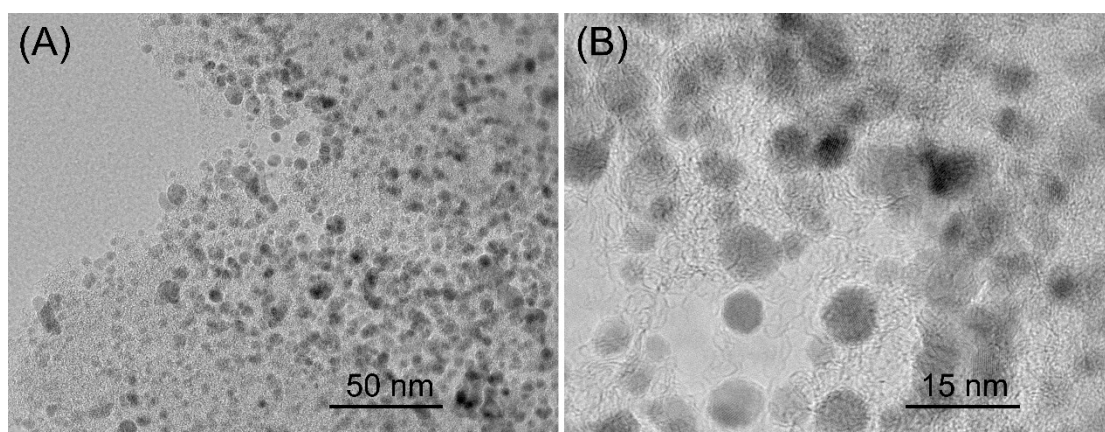


Fig. S4 The TEM images of Pd/C at different magnification.

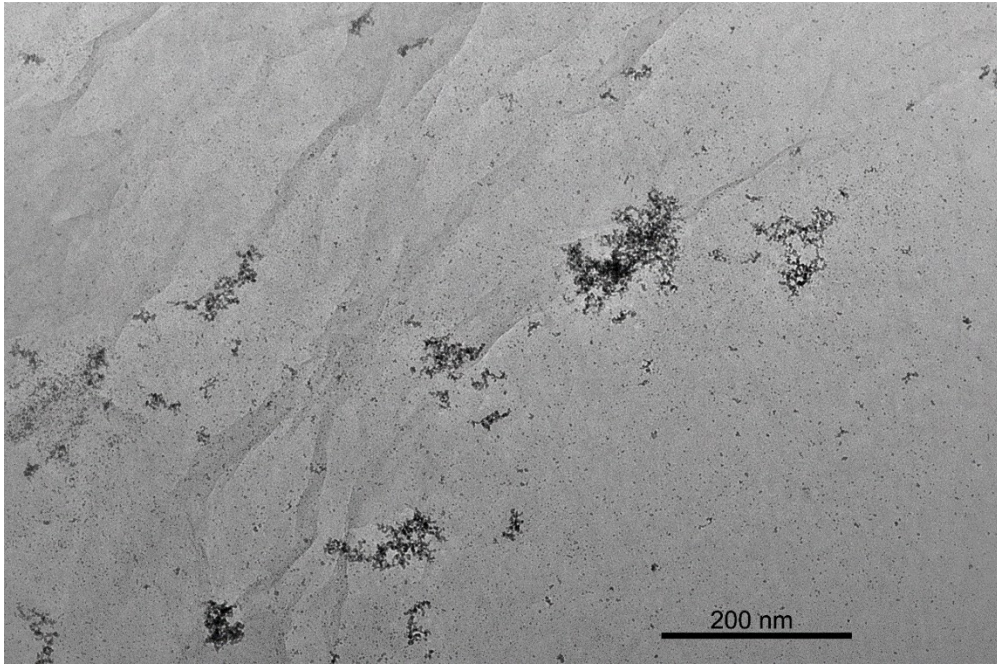


Fig. S5 TEM image of Pd-Pt@ β -CD-RGO after durability by current-time test recorded at -0.2 V for 4000 s.