Supporting information

Improved activity and stability of dealloyed bimodal nanoporous PtCo catalysts for CO oxidation

Dongwei Li,[a,b] Hui Wang,[c] Chunying Shi[b] and Xiaohong Xu*[b]

^a State Key Laboratory	of Chemical	Resource	Engineering,	Beijing	University	of Chemical	Technology,
Beijing 100029, China							

^b School of Chemistry and Chemical Engineering, Shandong University, Jinan 250100, China

^c Environmental Protection Administration of Linyi, Linyi 276000, China

* Corresponding author:

Tel: +86-531-88361067

Fax: +86-531-88364464

Email address: xhxu@sdu.edu.cn (X.H. Xu)

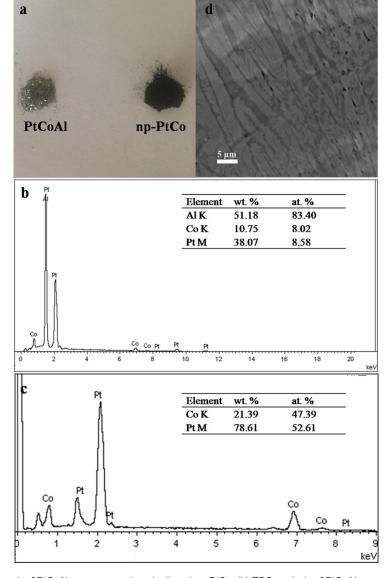


Fig. s1. (a) Macrograph of PtCoAl precursor and as-dealloyed np-PtCo. (b) EDS analysis of PtCoAl precursor. (c) EDS analysis of as-dealloyed PtCo. (d) SEM image of PtCoAl precursor.

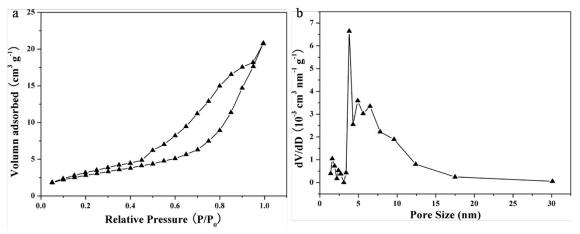


Fig. s2. (a) N_2 adsorption/desorption isotherm of the obtained np-PtCo. (b) Pore-size distribution obtained using the BJH method.

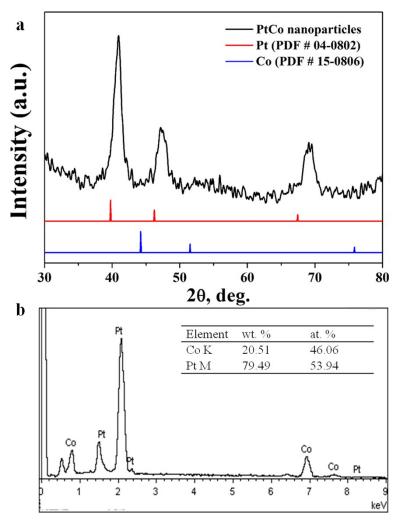


Fig. s3. (a) XRD patterns of as-prepared PtCo nanoparticles. (b) EDS analysis of as-prepared PtCo nanoparticles.

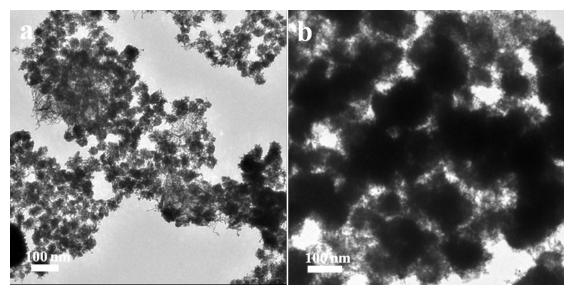


Fig. s4. TEM images of as-prepared PtCo nanoparticles before (a) and after (b) the catalytic reaction.

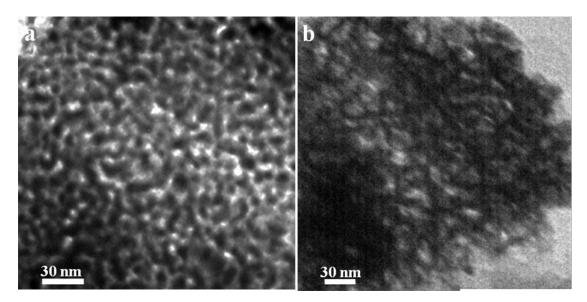


Fig. s5. TEM images of np-Pt before (a) and after (b) the catalytic reaction.

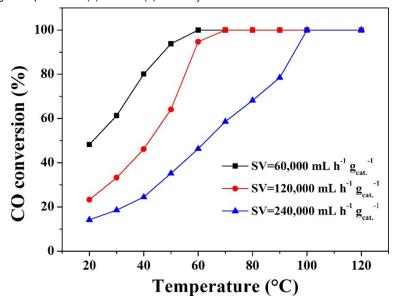


Fig. s6. The influence of space velocity on CO conversion over np-PtCo with 1% CO, 10% O_2 , and N_2 balance at space velocity of 60,000 (\blacksquare), 120,000 (\bullet), and 240,000 mL h^{-1} g_{cat}^{-1} (\blacktriangle), respectively.