Electronic Supplementary Material (ESI) for RSC Advances.
This journal is © The Royal Society of Chemistry 2016

Supporting Information

High Water-Resistance Carbon Nanotube Supported $PdCl_2$-$CuCl_2$ Catalysts for the Low Temperature CO Oxidation

Fanyun Zhou,[a] Xuexun Du,[a] Jun Yu,[a]* Dongsen Mao[a] and Guanzhong Lu[ab]*

[a] Research Institute of Applied Catalysis, School of Chemical and Environmental Engineering, Shanghai Institute of Technology, Shanghai 201418, China.

[b] Key Laboratory for Advanced Materials and Research Institute of Industrial catalysis, East China University of Science and Technology, Shanghai 200237, China.

*Corresponding Author: Fax: +86-21-64252923. E-mail: gzhlu@ecust.edu.cn (G.Z. Lu); yujun@sit.edu.cn (Y. Jun)

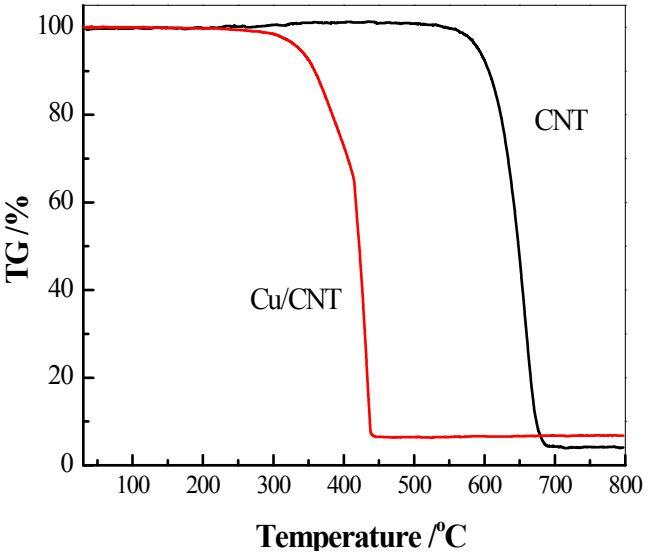

Fig. S1. TG curves of the CNT and Cu/CNT

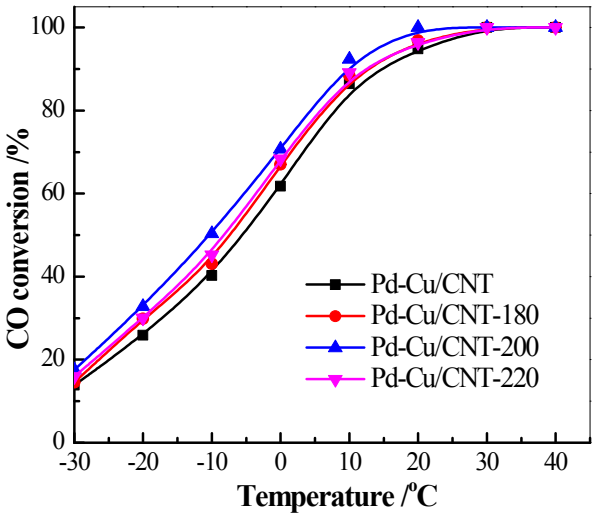

Fig. S2. Effect of the calcination temperature of 3.3wt.%Cu-Cl_x/CNT on the catalytic activity of 1.7wt.%Pd-3.3wt.%Cu-Cl_x/CNT catalyst for the CO oxidation. (1500 ppm CO and ~3.1% moisture in air, WHSV 15,000 mL g^{-1} h^{-1}).

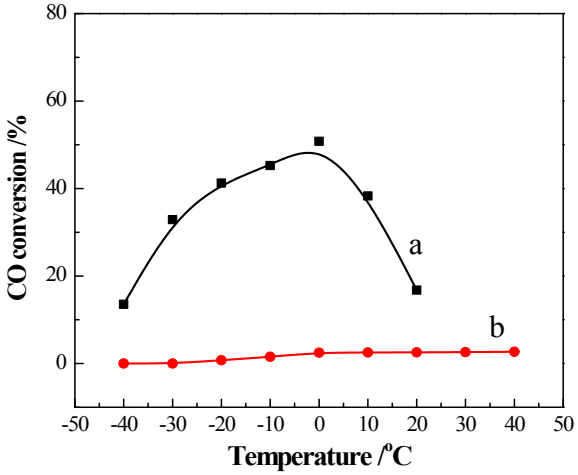

Fig. S3. Catalytic activity of the (a) untreated and (b) pretreated 3.3wt.%Pd-6.6wt.%Cu/CNT catalyst for CO oxidation without moisture. (1500 ppm CO, WHSV of 15,000 mL/(g·h)).

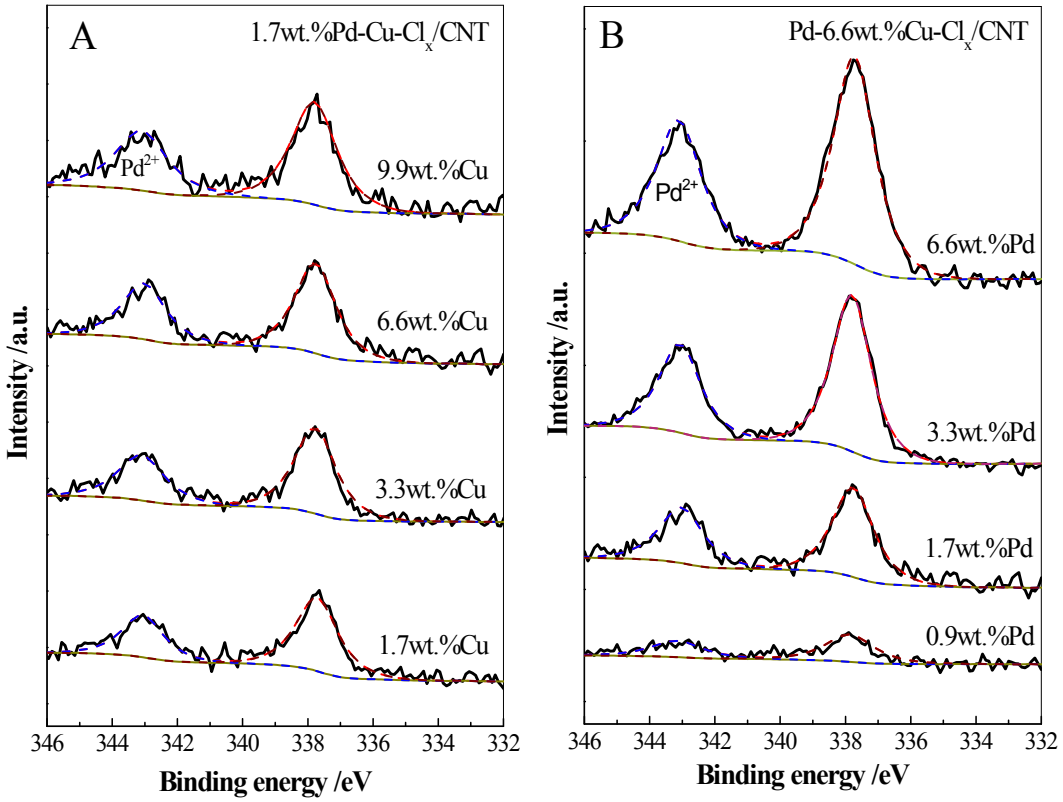

Fig. S4. Pd 3d XPS spectra of (A) 1.7wt.%Pd-Cu/CNT and (B) 6.6wt.%Cu-Pd/CNT catalysts.