Electronic Supplementary Material (ESI) for RSC Advances.
This journal is © The Royal Society of Chemistry 2015

Supporting information

for

Enhanced catalytic hydrodechlorination of 2,4-dichlorophenol over Pd catalysts supported on nitrogen-doped graphene

Juan Zhou [a], Quanyuan Chen [a], Yuxiang Han[b], Shourong Zheng[b,*]

[a] *School of the Environment, Donghua University, Shanghai 201620, China*

[b]*State Key Laboratory of Pollution Control and Resource Reuse, Jiangsu Key Laboratory of Vehicle Emissions Control, School of the Environment, Nanjing University, Nanjing 210093, China*

*Corresponding author. Tel: +86-25-89680373; Fax: +86-25-89680596.

E-mail: srzheng@nju.edu.cn (S. Zheng)

Figure 1S: XRD patterns of Pd catalysts supported on GN-3.

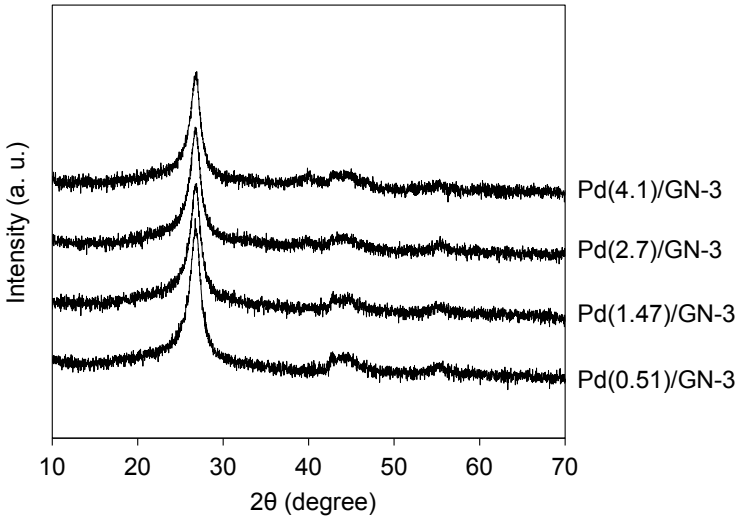

Figure 2S: XPS spectra of graphene and GN-3 in the C 1s region.

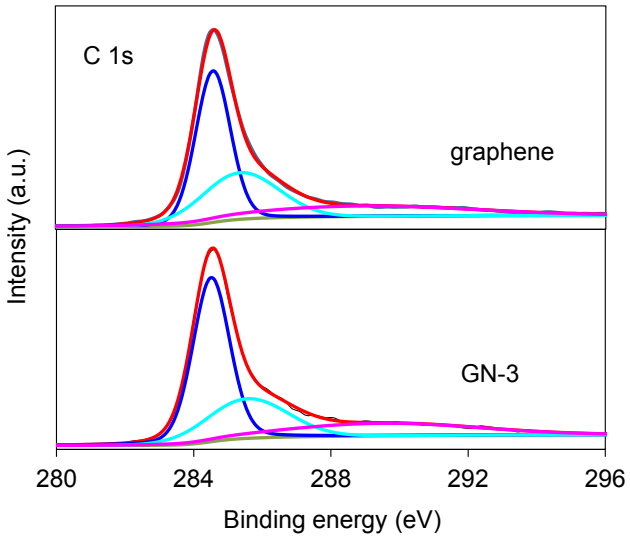

Figure 3S: The catalytic HDC of 2,4-DCP over Pd(2.8)/GN-3. Solid and open symbols represent two separate runs. (▲,△) 2,4-DCP, (■,□) 2-CP and (◆,◇) phenol.

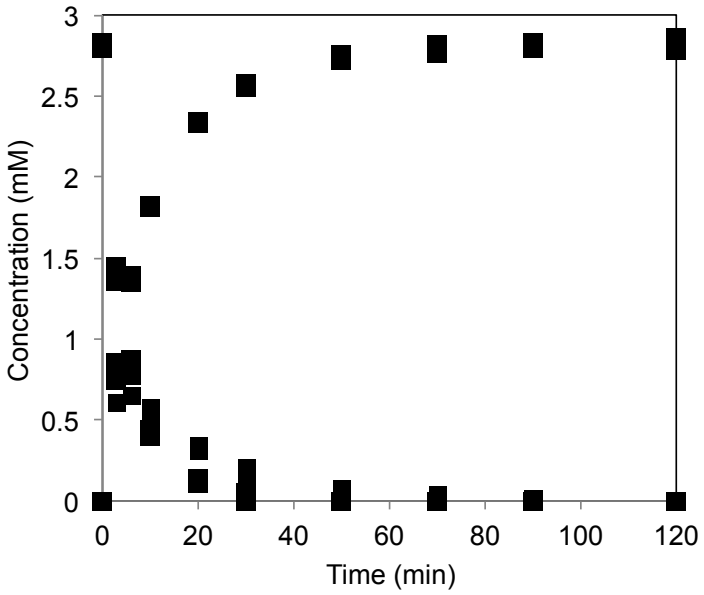

Figure 4S: Influence of catalyst dosage on the initial HDC rate. Catalyst: Pd(2.8)/GN-3

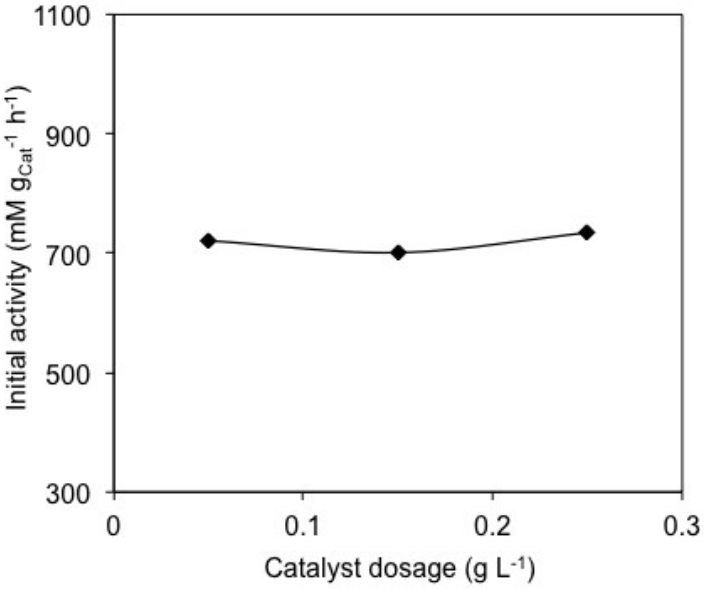
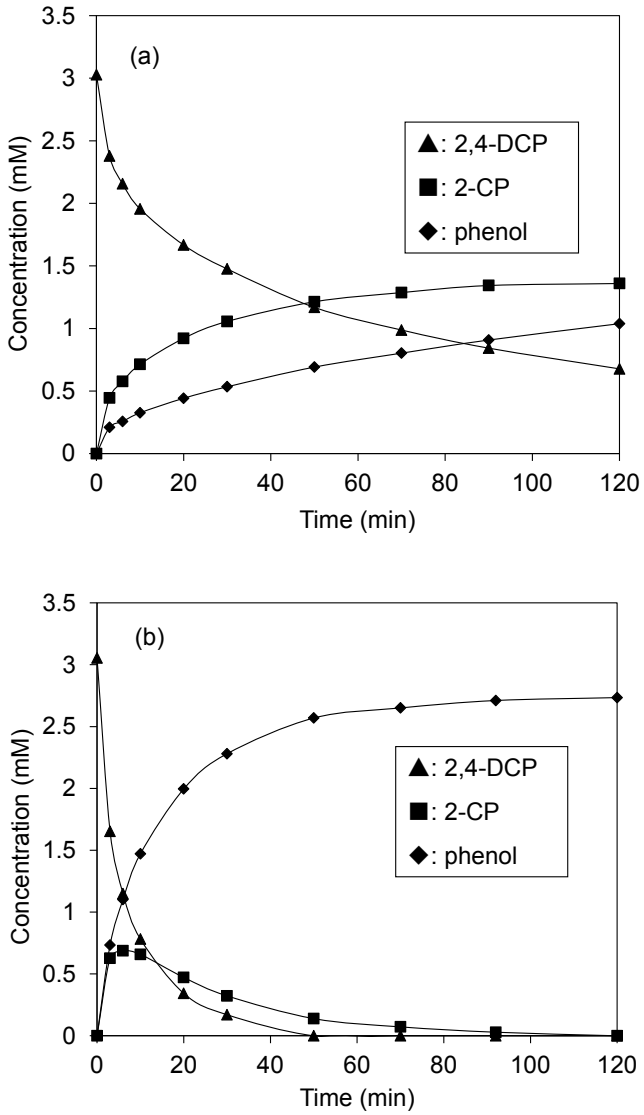
Figure 5S: Catalytic HDC of 2,4-DCP over (a) Pd(2.7)/graphene and (b) Pd(2.8)/GN-3. Reaction conditions: pH 12. Catalyst dosage: 0.25 g l^{-1}, 2,4-DCP concentration: 3.0 mM.