Effective catalytic hydrodechlorination of chlorophenoxyacetic acids over Pd/graphitic carbon nitride

Fang Jiang[a], Wenhui Tan[a], Huan Chen[a]*, Ling Tan[a], Jingliang Liu[b]

a *Key Laboratory of Jiangsu Province for Chemical Pollution Control and Resources Reuse, School of Environmental and Biological Engineering, Nanjing University of Science and Technology, Nanjing 210094, China.*

b *School of Biochemical Environmental and Engineering, Nanjing XiaoZhuang University, Nanjing 211171, China.*

*Corresponding author. Tel: +86-25-84303209; Fax: +86-25-84315352.
E-mail: hchen404@njust.edu.cn (H. Chen)

Fig. 1S Liquid phase catalytic HDC of 2,4-D over catalyst 3 with various catalyst dosages. (□) 0.05 g L^{-1}, (■) 0.1 g L^{-1}, (△) 0.2 g L^{-1}, (▲) 0.3 g L^{-1}. The insert figure is the dependence of initial activity on catalyst dosage.
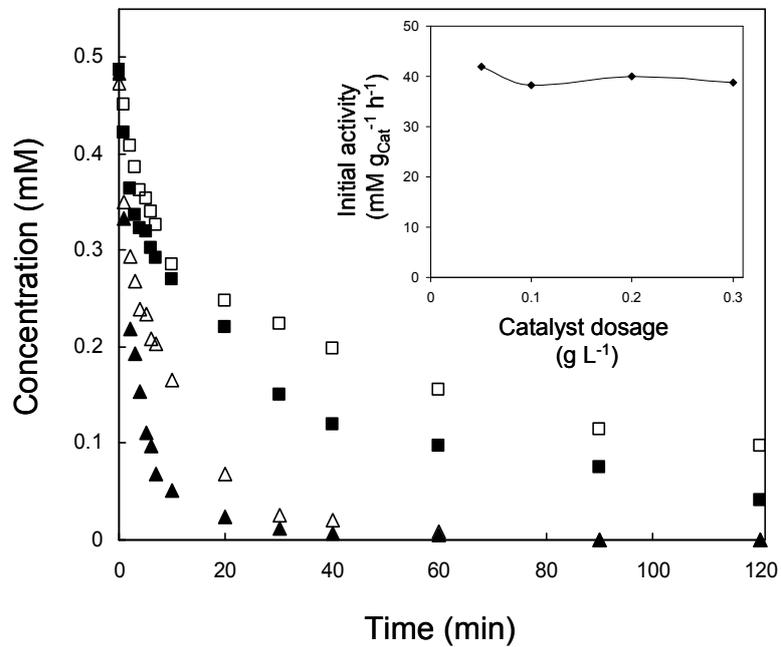
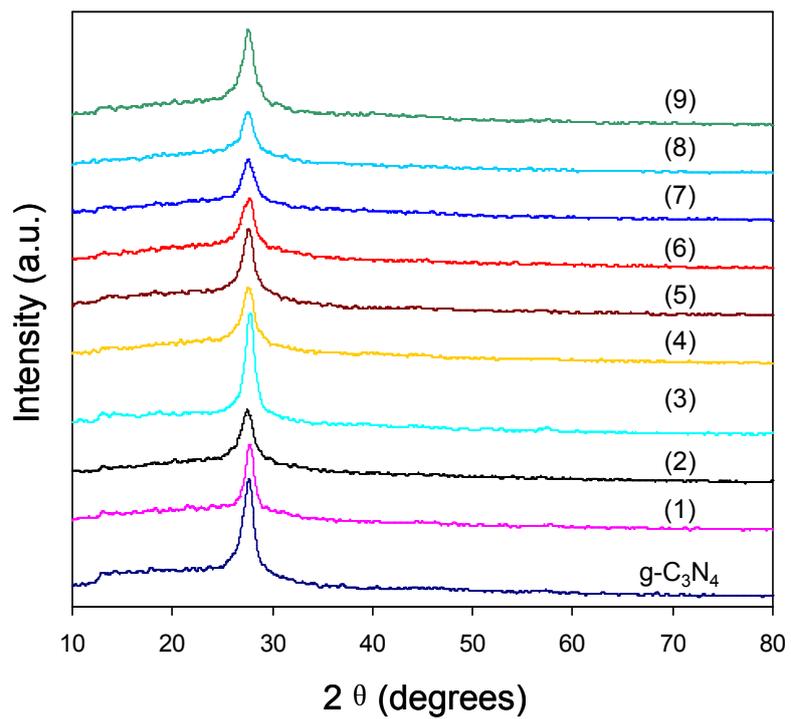Fig. 2S XRD patterns of g-C$_3$N$_4$ and Pd/g-C$_3$N$_4$ catalysts.

Fig. 3S XPS profiles of Pd 3d spectra on used catalyst 3. Black line refers to the experimental data; Red line refers to the fitting curve; Blue line refers to Pd^0; Green line refers to Pd^{2+}.
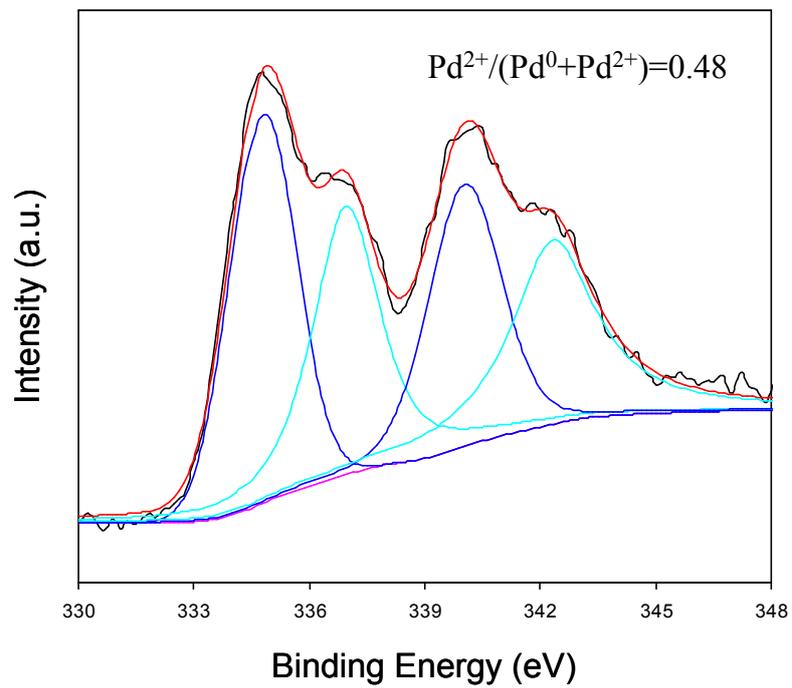
Fig. 4S XPS profiles of Pd 3d spectra on catalyst 7, 8 and 9. Black line refers to the experimental data; Red line refers to the fitting curve; Blue line refers to Pd^0; Green line refers to Pd^{2+}.