

Exploring high catalytic performances of Cu-Co-O/N-doped carbon materials toward hydrogenation reduction and advanced oxidation reactions of 4-nitrophenol (PNP)

Pingyun Li,* Shiyu Huang, Yanchao Shen, Yadan Wang, Xiaode Guo*

National Special Superfine Powder Engineering Research Center, School of Chemistry and Chemical Engineering, Nanjing University of Science and Technology, Nanjing 210094, China.

*Corresponding author: lipingyun@njust.edu.cn (Pingyun Li), guoxiaodenj@sina.com (Xiaode Guo)

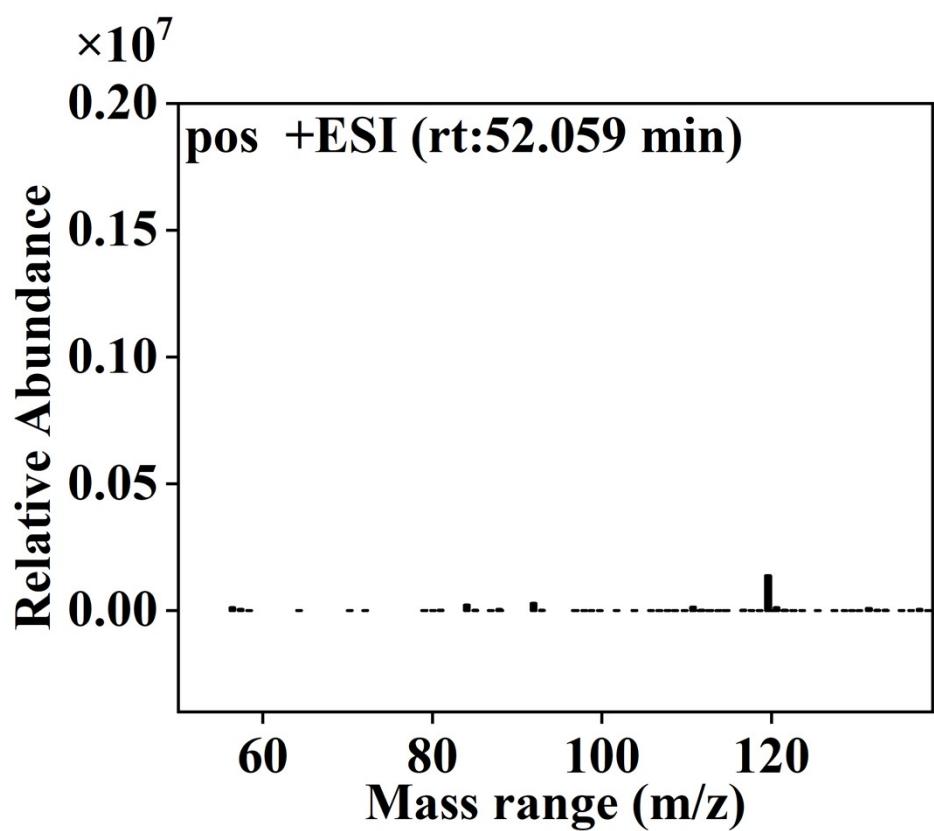


Figure S1. LC-MS analysis result of the solution after oxidation reaction of PNP by PMS.

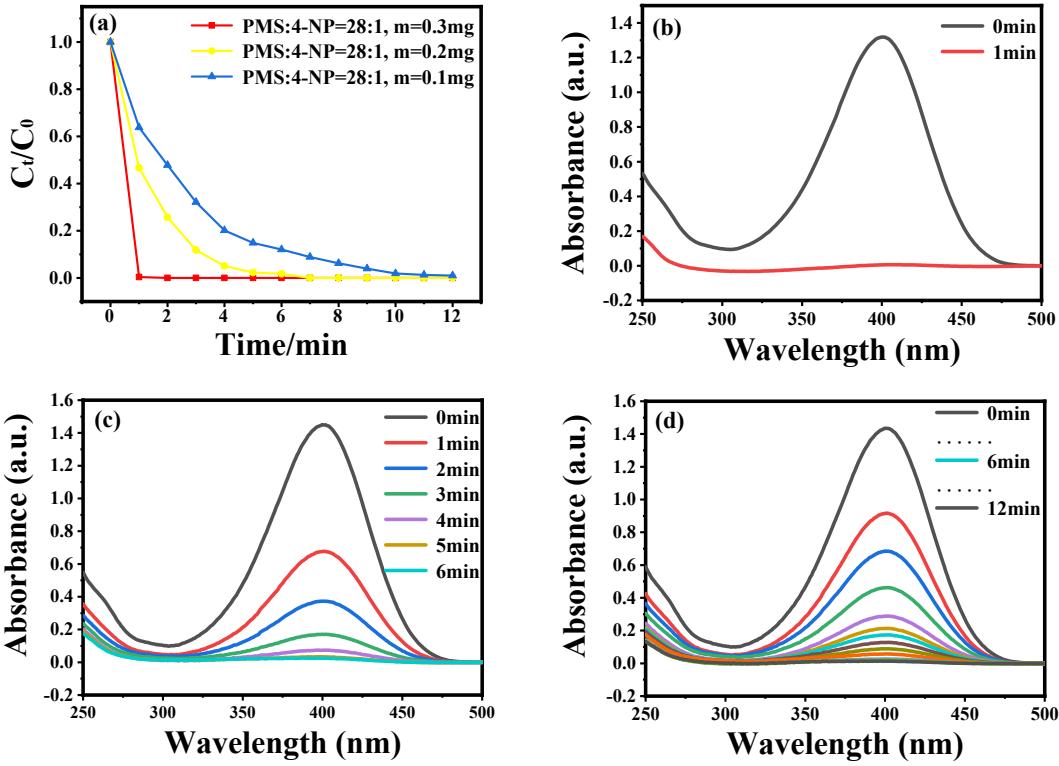


Figure S2. The effect of the mass of the catalyst on the advanced oxidation reaction of PNP (a-d) where the mass is 0.3 mg (b), 0.2 mg (c) and 0.1 mg (d).

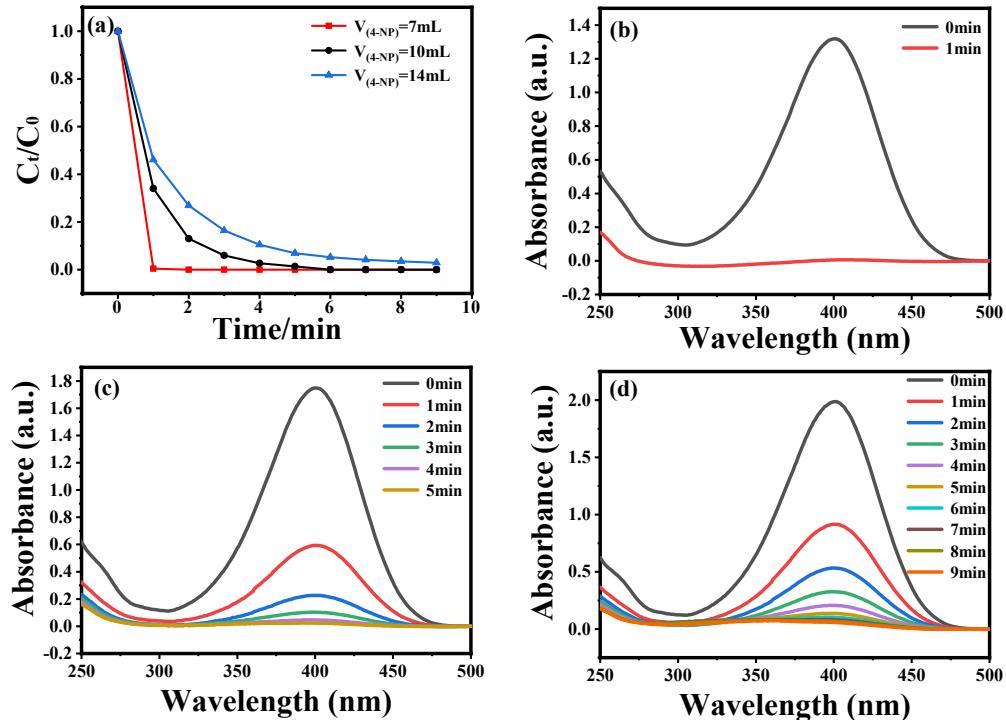


Figure S3. The effect of the volume of the PNP solution on the advanced oxidation reaction of PNP (a-d) where the volume is 7 mL (b), 10 mL (c) and 14 mL (d).