

Porous gold nanoparticle/graphene oxide composite as efficient catalysts for reduction of 4-nitrophenol

Mengmeng Zhang, Xuan Lu, Hao-Yi Wang, Xiaoli Liu, Yujun Qin,* Pu Zhang, Zhi-Xin Guo

Department of Chemistry, Renmin University of China, Beijing 100872, China.

Email: yjqin@ruc.edu.cn.

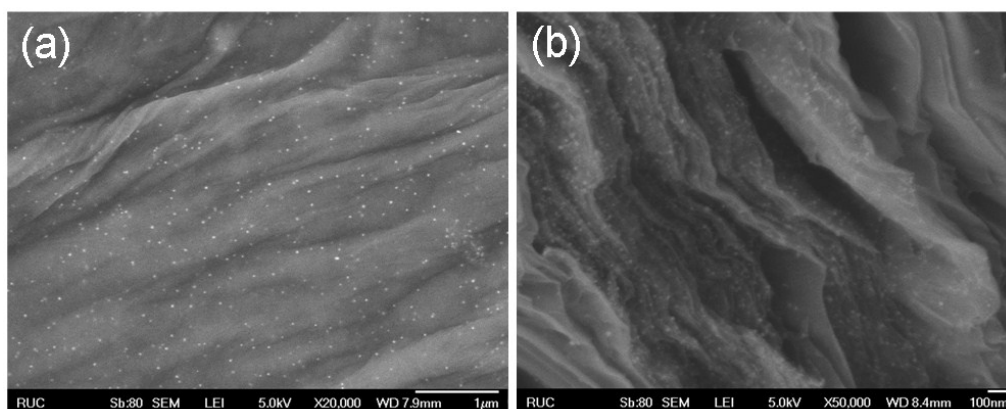


Fig. S1 Top view (a) and cross-section (b) SEM images of Au/PEI/GO composite film prepared from vacuum-filtering.

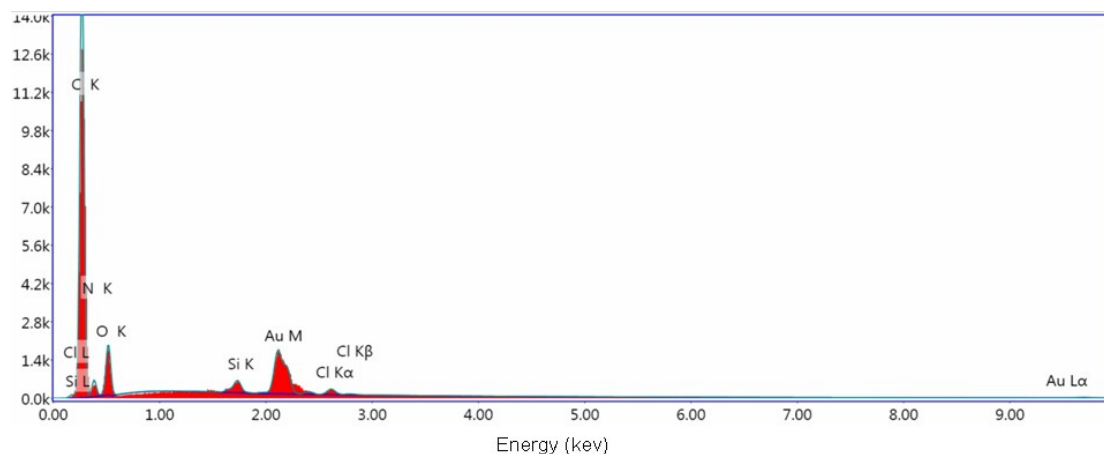


Fig. S2 SEM-EDX analysis of Au/PEI/GO composites from freeze-drying.

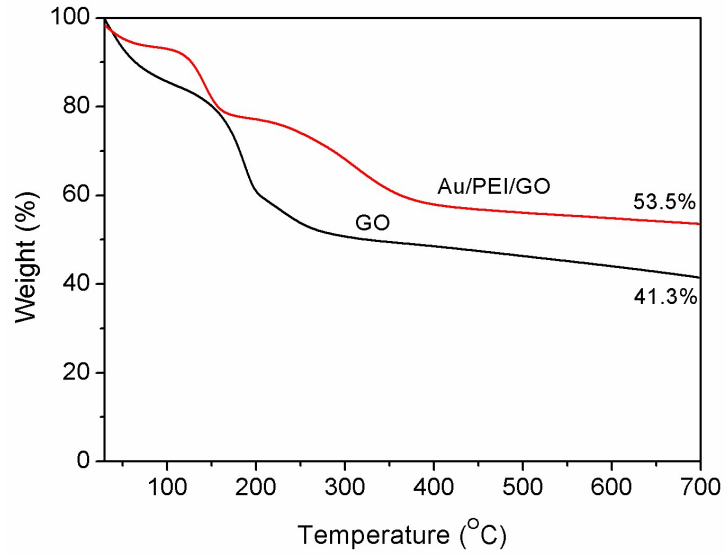


Fig. S3 TGA curves of porous Au/PEI/GO composite and GO, with the final weight of 53.5% and 41.3%, respectively, at 700 °C.

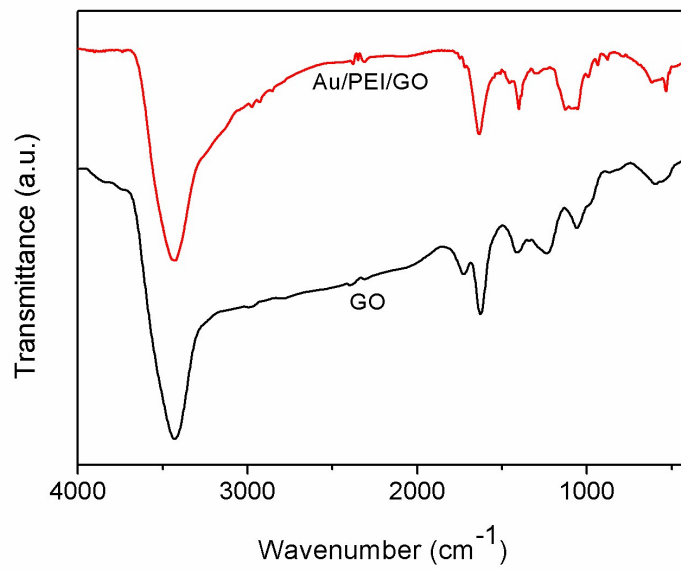


Fig. S4 FT-IR spectra of porous Au/PEI/GO composite and GO.

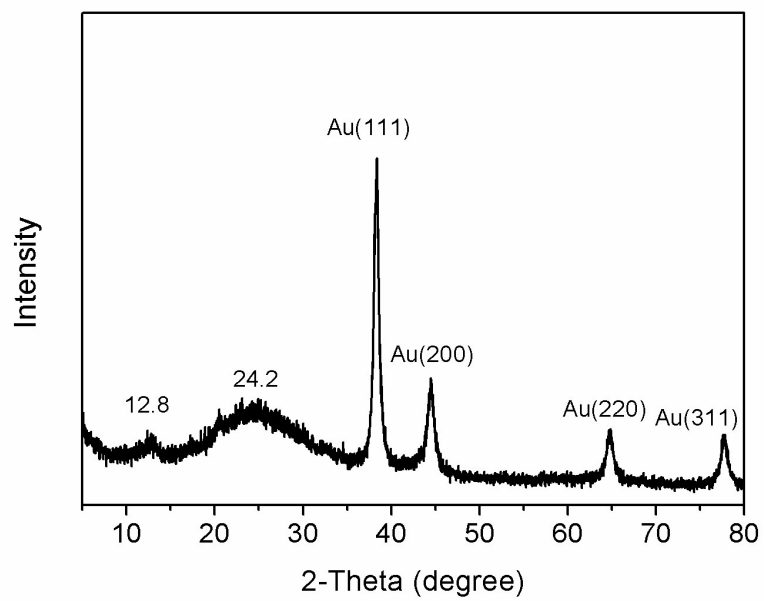


Fig. S5 XRD pattern of Au/PEI/GO composite film prepared from vacuum-filtering.