

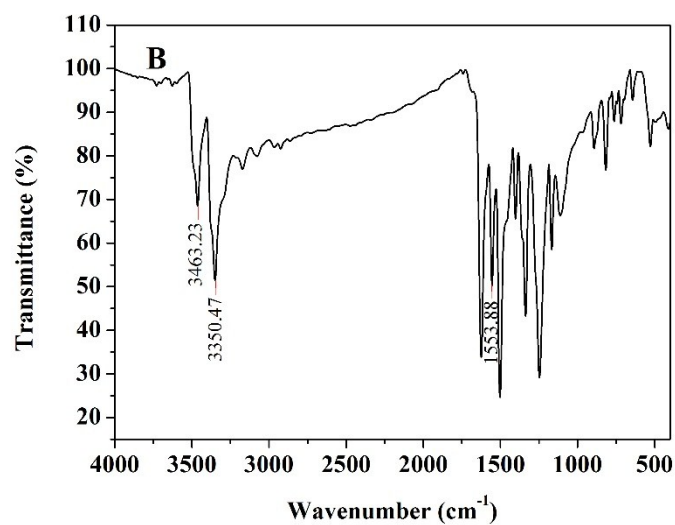
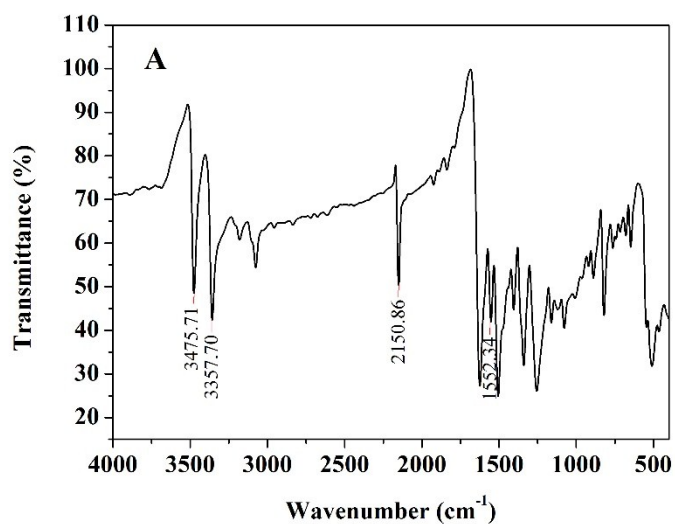
Supporting Information

Synthesis of 3,4-Diaminobenzenethiol and Its Application in Gold Nanoparticle-based Colorimetric Determination of Copper Ions

Chi Zhang,^a Li-Qiang Lu,^{a*} Pan Deng,^a Xi-Ke Tian,^{a*} Ming-Yang Liu,^b Ai-Ming Li^b

^aNano-Mineral Materials and Application Engineering Research Center of Ministry of Education, Faculty of Materials Science and Chemistry, China University of Geosciences, Wuhan 430074, P. R. China. E-mail: llqdic@cug.edu.cn

^bHubei Environment Monitoring Center, Wuhan 430072, P. R. China



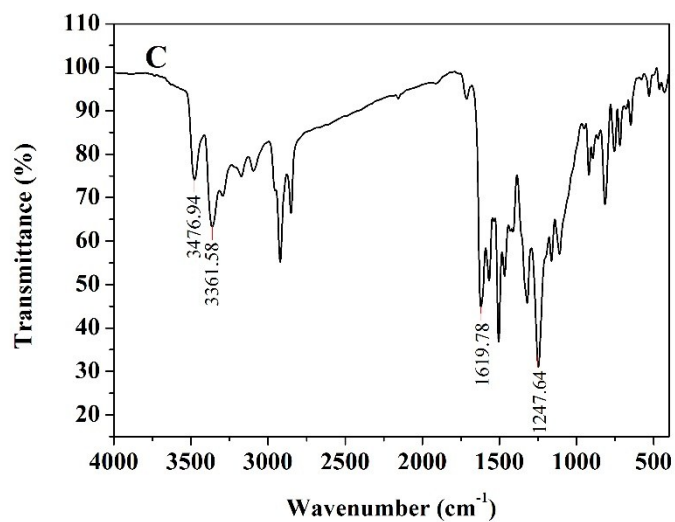


Fig. S1 FTIR spectra of synthetic products. (A) 2-nitro-4-thiocyananiline; (B) 4-amino-3-nitrobenzenethiol; (C) 3,4-diaminobenzenethiol.

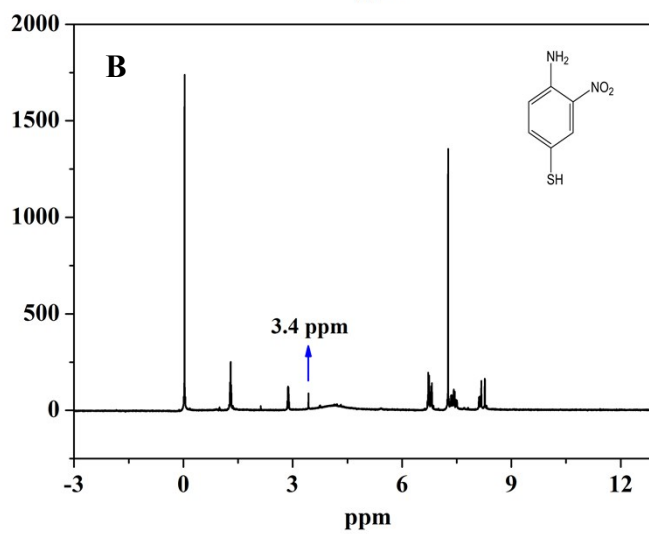
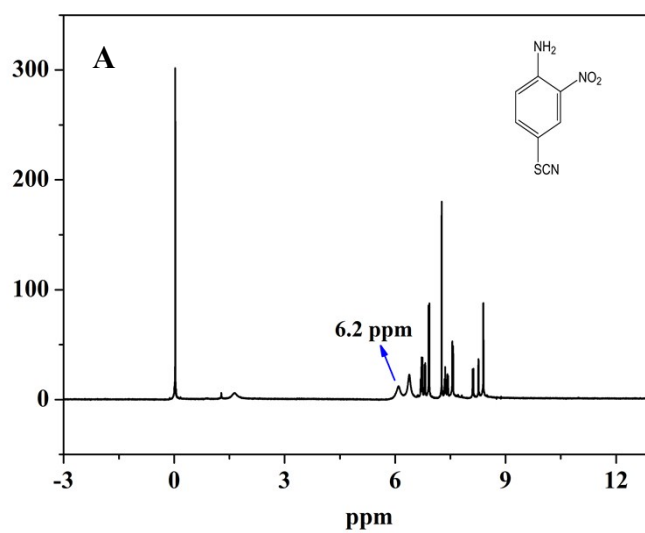


Fig. S2 ¹H NMR spectra of synthetic products. (A) 2-nitro-4-thiocyananiline; (B) 4-amino-3-nitrobenzenethiol.

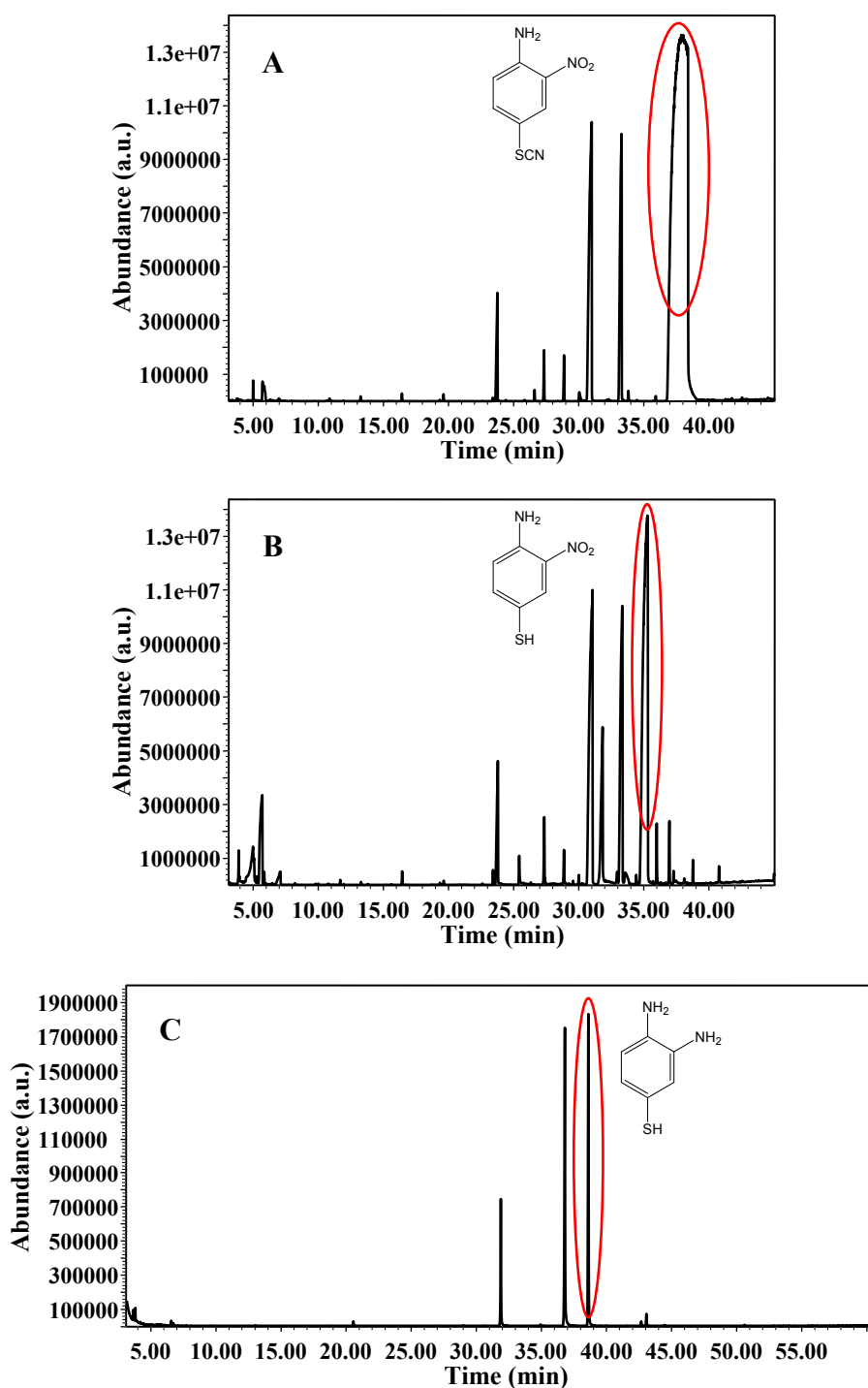


Fig. S3 Total ion flow chromatograms of synthetic products. (A) 2-nitro-4-thiocyananiline; (B) 4-amino-3-nitrobenzenethiol; (C) 3,4-diaminobenzenethiol.