

Supporting Information

A simple, rapid, one-step approach for preparation of Ag@TiO₂ nanospheres with multiple cores as effective catalyst

Donghai Wang,^a Zheng Jiao,^b Minghong Wu,^b Lanbing Gu,^a Zhiwen Chen,^{*b} and
Haijiao Zhang^{*a}

*^aInstitute of Nanochemistry and Nanobiology, Shanghai University, Shanghai 200444,
P. R. China*

*^bSchool of Environmental and Chemical Engineering, Shanghai University, Shanghai
200444, P. R. China*

*Corresponding author:

E-mail: hjzhang128@shu.edu.cn; zwchen@shu.edu.cn

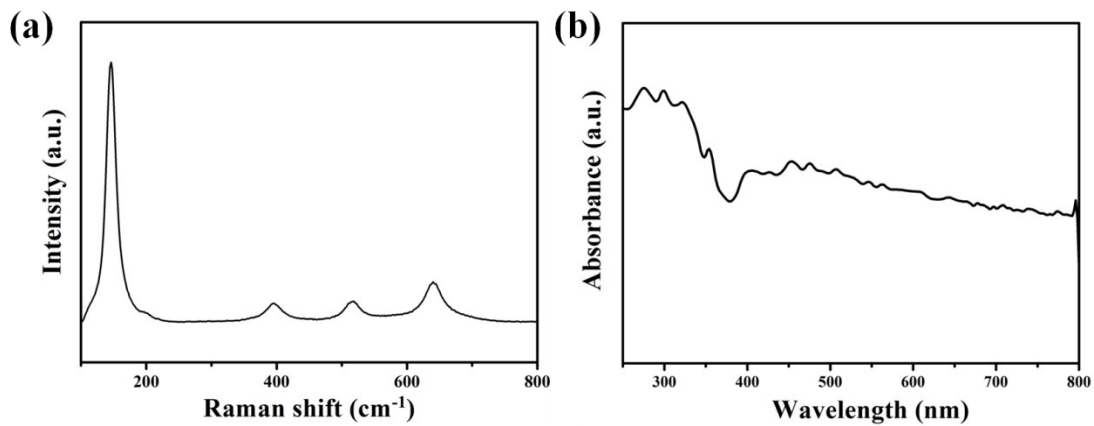


Fig. S1 (a) Raman spectrum and (b) UV-Vis spectrum of Ag@TiO₂ nanospheres.

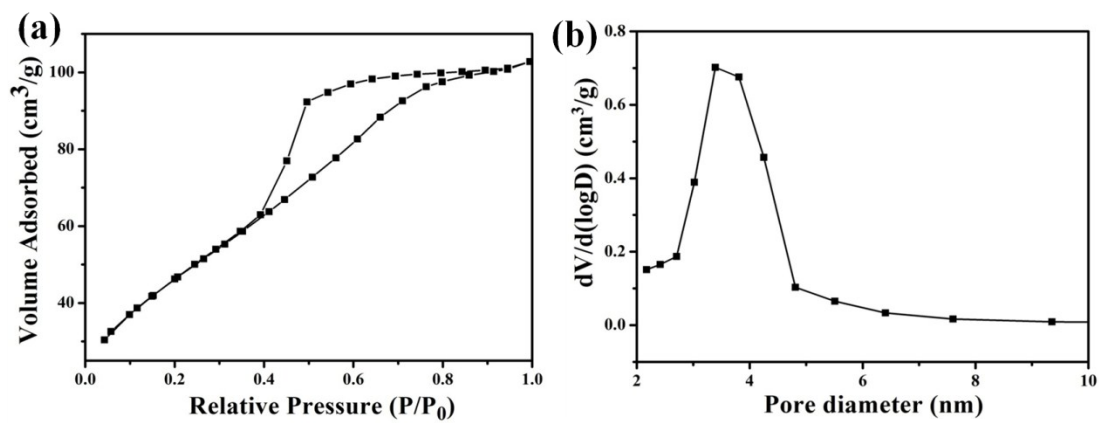


Fig. S2 N₂ adsorption-desorption isotherm and corresponding pore size distribution of Ag@TiO₂ nanospheres.

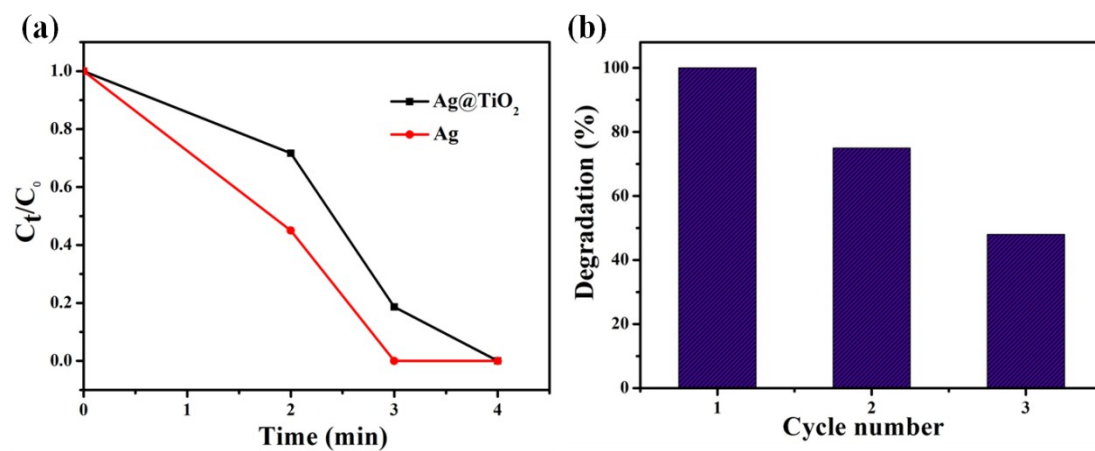


Fig. S3 (a) UV-Vis spectra for the reduction of 4-NP with pure Ag nanoparticles and Ag@TiO₂ as catalyst, respectively, (b) cycling stability of Ag nanoparticles after 3 cycles.