Supporting Information

A simple, rapid, one-step approach for preparation of Ag@TiO$_2$ nanospheres with multiple cores as effective catalyst

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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@TiO$_2$ as catalyst, respectively, (b) cycling stability of Ag nanoparticles after 3 cycles.