Supporting information

Figure S1

**Figure S1** Highly magnified TEM images of Ag@Pt nanoparticles prepared by adding different volume of 20 mM K$_2$PtCl$_4$ solution ((a) 100 μL, (b) 250 μL, (c) 500 μL, and (d) 800 μL, respectively).
Figure S2

Figure S2 CV curves for methanol oxidation over Ag@Pt core-shell nanoparticles, pure Pt and Ag nanoparticles in 0.5 M H$_2$SO$_4$ containing 0.5 M CH$_3$OH at a scan rate of 50 mV s$^{-1}$. The current density of Ag nanoparticles is normalized by the Ag mass.