

Electronic Supporting Information

Uniform Ni/SiO₂@Au magnetic hollow microspheres: rational design and excellent catalytic performance in 4-nitrophenol reduction

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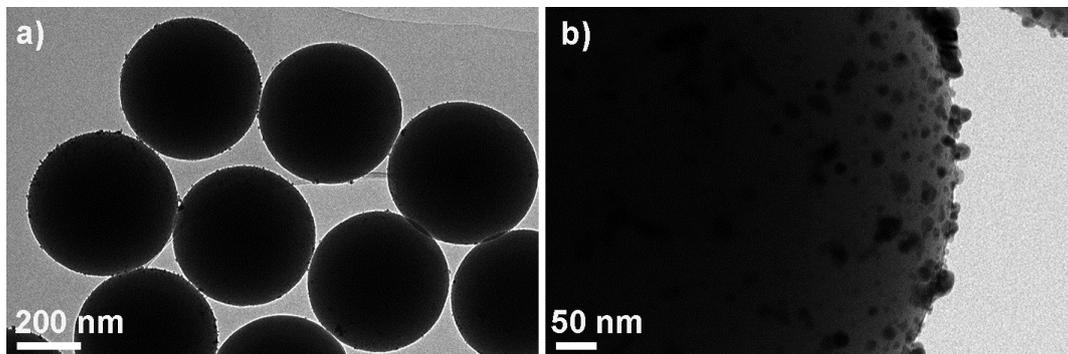


Fig. S1 a) Low-, b) high-magnification TEM images of SiO₂@Au.

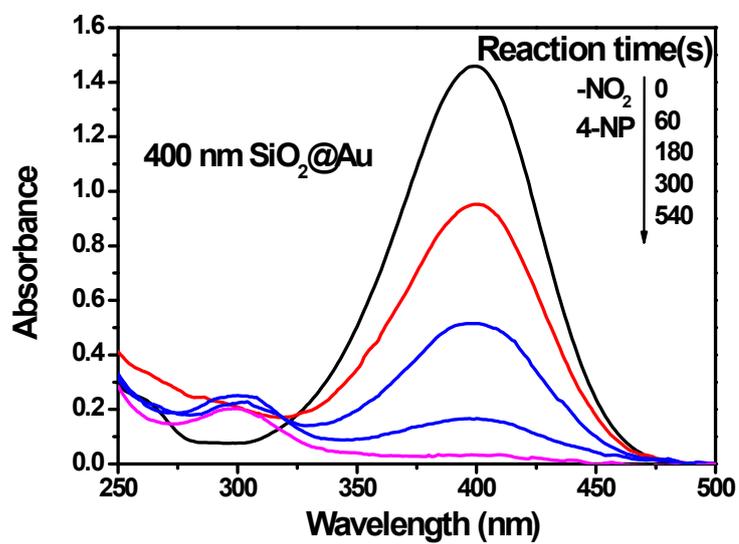


Fig. S2 UV-vis absorption spectra of successive reduction of 4-NP using SiO₂@Au as catalysts.

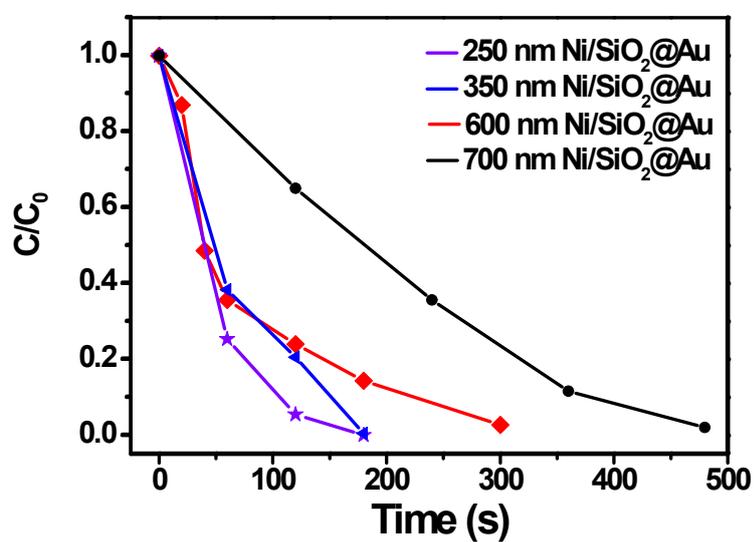


Fig. S3 C/C_0 verse reaction time for the reduction of 4-NP at the peak position of 4-NP (400 nm) using Ni/SiO₂@Au with the size of 250 nm (purple line), 350 nm (blue line), 600 nm (red line) and 700 nm (black line) as catalysts

Table 1. The ICP data of Ni/SiO₂@Au before catalytic reaction and after catalytic reaction for 8 cycles

	Au (mol %)	Ni (mol%)
before reaction	1.16	10.37
after reaction for 8 cycles	0.79	7.31