

Quantitative analysis of the relationship between the dispersion stability of mixed- surfactant Ag nanoparticles and their composition

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Supporting Information



Fig. S1 Photograph of Ag NPs dispersed in toluene solution without adding surfactants.

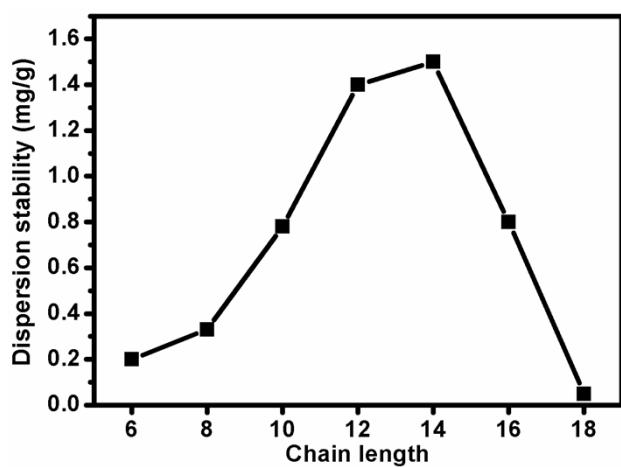


Fig. S2 Dispersion stabilities of Ag NPs dispersed in 0.1 M toluene solutions of **C6** to **C18**.

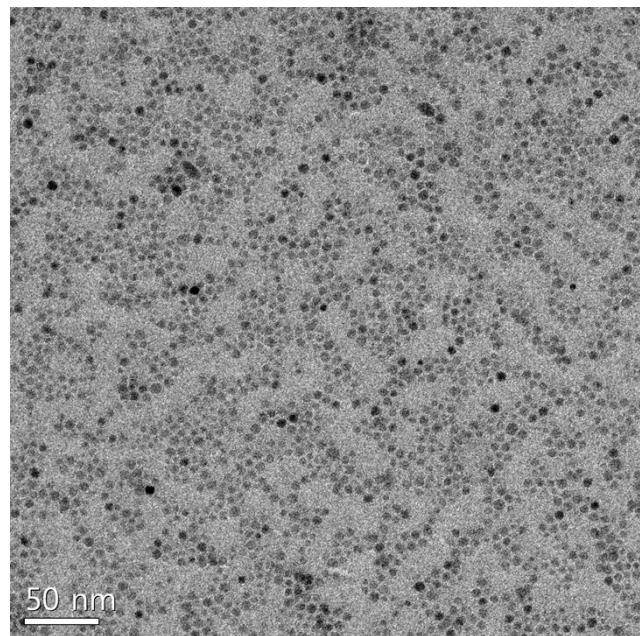


Fig. S3 TEM image of Ag NPs synthesized by the decomposition of Ag palmitate.

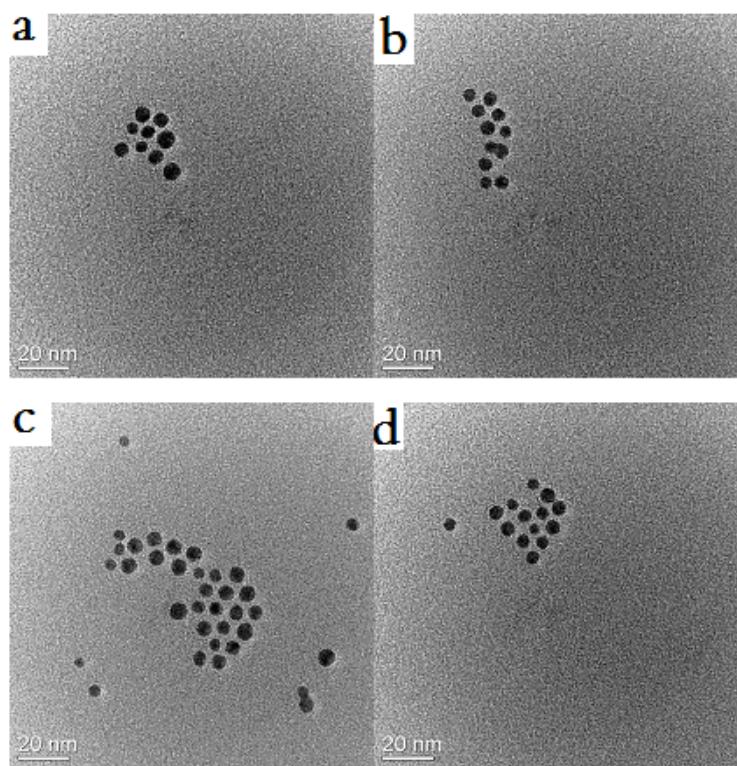


Fig. S4 The TEM images of the Ag NPs before (Fig. S4a and 4b) and after ligand-exchange reaction (Fig. S4c and 4d).

Table S1 Molar ratio of **C16** on the Ag NP surfaces after the ligand-exchange reaction measured with HPLC.

	<i>C14/C6</i>	<i>C14/C8</i>	<i>C14/C10</i>	<i>C14/C12</i>	<i>C18/C6</i>	<i>C18/C8</i>	<i>C18/C10</i>	<i>C18/C12</i>	<i>C18/C14</i>
Remained amount of <i>C16</i> (%)	6.1	6.5	6.3	6.8	6.1	6.0	5.9	6.3	6.0