Supporting information

Ag shell Morphology on Au nanorod core: Role of Ag precursor complex

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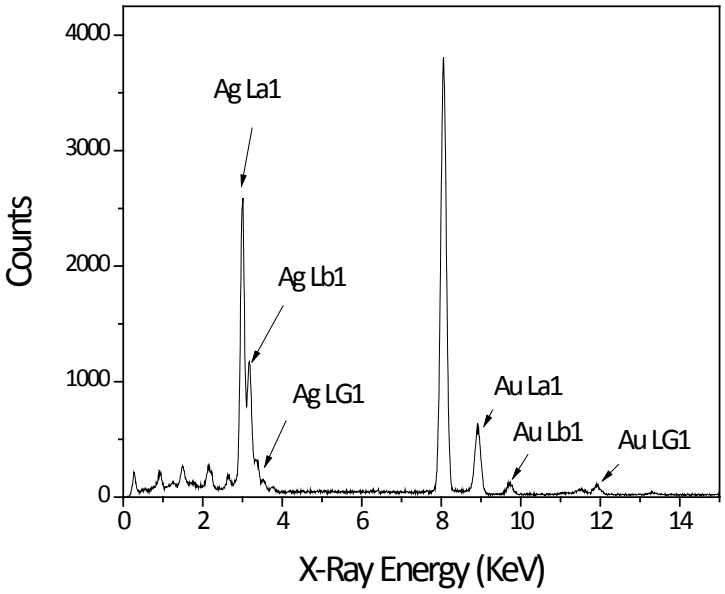

Fig.S1. A representative Energy-Dispersive X-ray spectrum of Au-Ag core shell nanoparticles. The spectrum was taken from the particles shown in Fig.4c. The atomic% ratio of Ag: Au is 96:4.

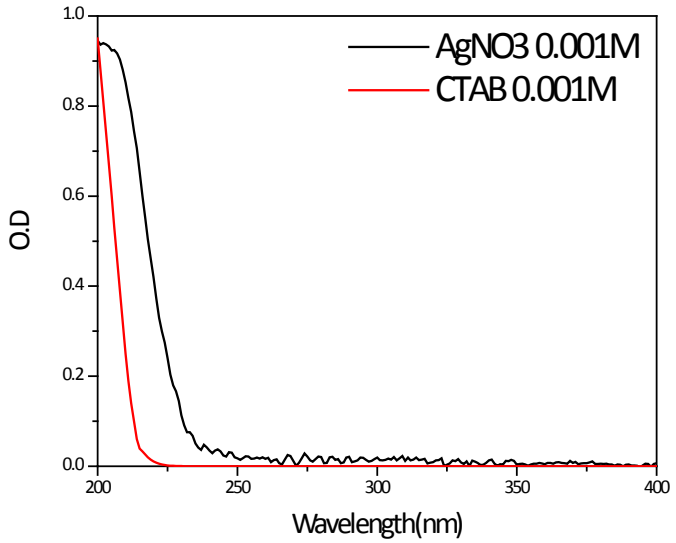

Fig.S2. UV-Vis spectra of 0.001M $AgNO_3$ and 0.001M CTAB aqueous solution.

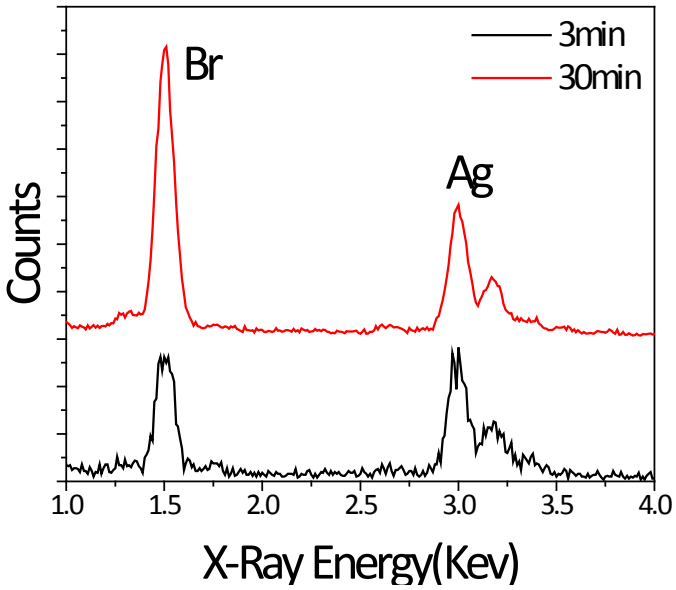

Fig.S3. Energy-Dispersive X-ray spectra of Ag-Br nanoparticles taken from the solution mixture of CTAB and $AgNO_3$ at mixing ratio 10:1 after 3 min and 30 min of reaction. The

atomic% ratio of Ag: Br is 1:1 for the particles at 3 min and 1:2 for the particles at 30min aging.

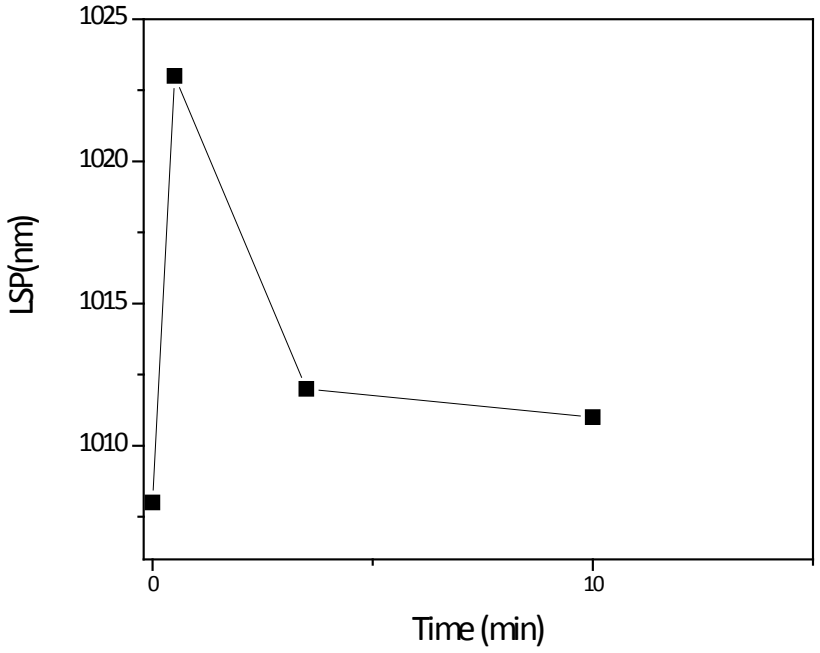

Fig.S4. The longitudinal surface plasmon peak of Au NR solution after adding $AgNO_3$ solution as a function of time.