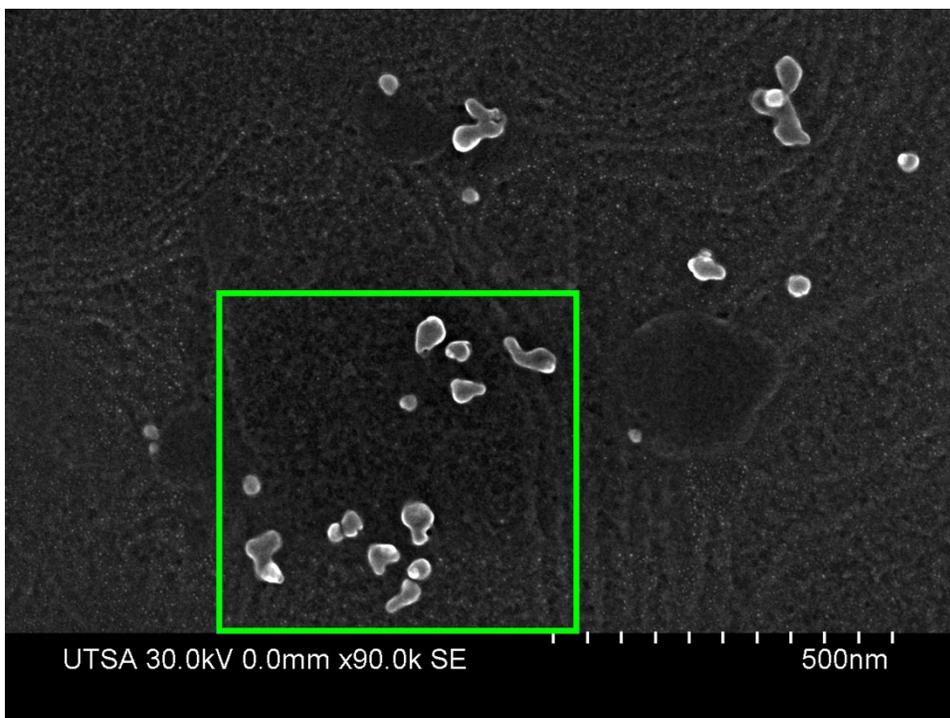


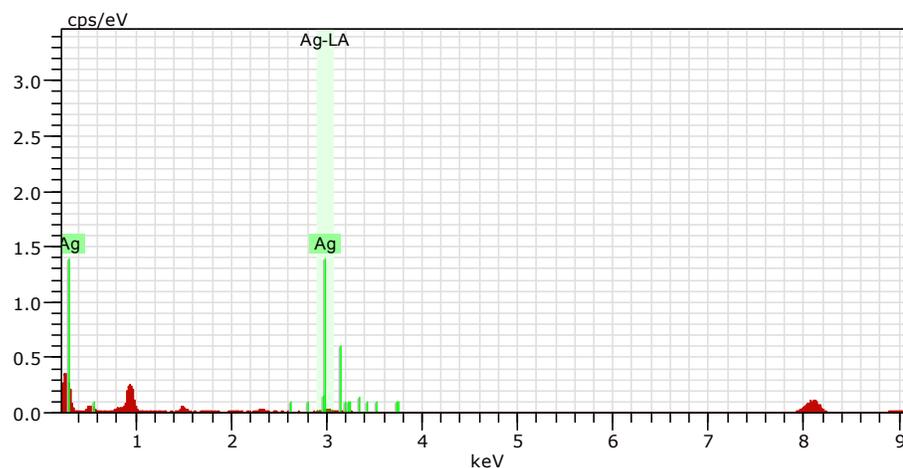
Electronic Supporting Information

A) STEM and EDS of AgNPs and AuNPs.

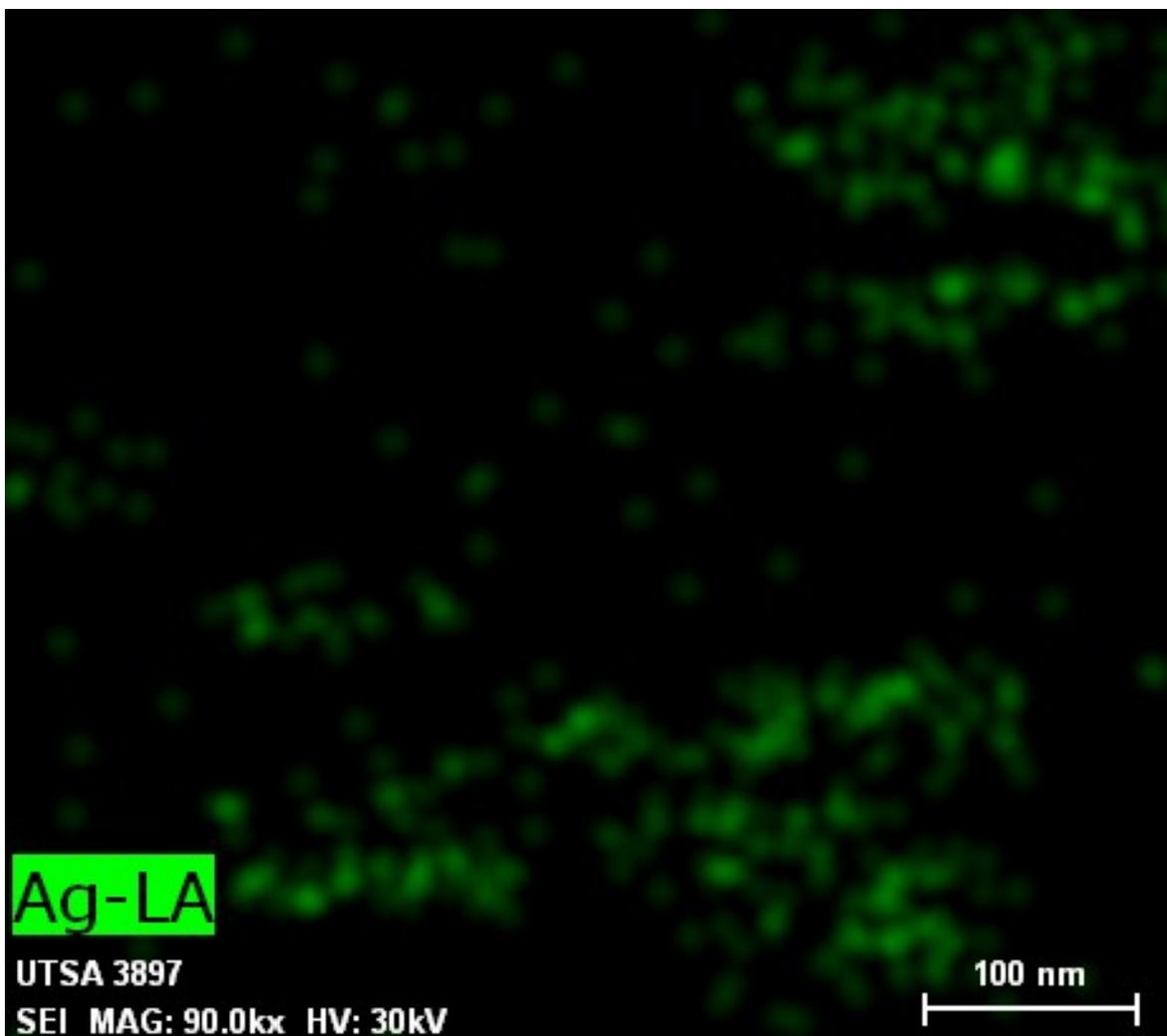
AgNPs formed and evolved in chloroformic medium, from reduction of $[\text{CTA}^+\cdots\text{Ag}(\text{SCN})_2^-]$ – liquor with $[\text{CTA}^+\cdots\text{BH}_4^-]$ – liquor.



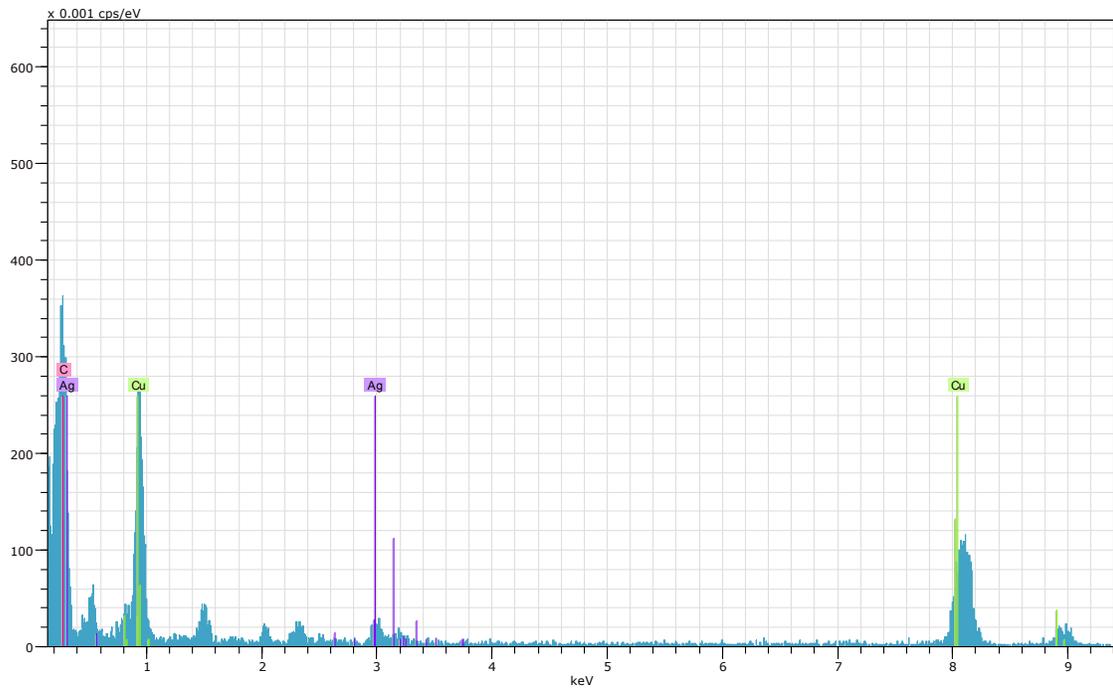
ESI-Figure 1a. Dark Field STEM image of AgNPs.



ESI-Figure 1b. Signal selected for EDS mapping of AgNPs.

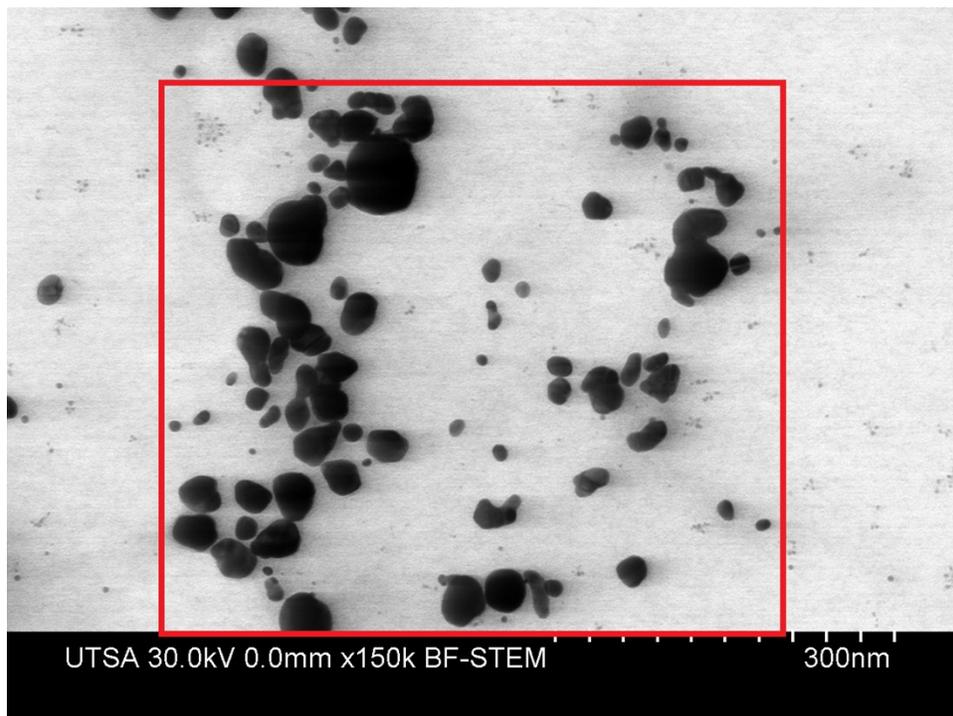


ESI-Figure 1c. Map of EDS of AgNPs.

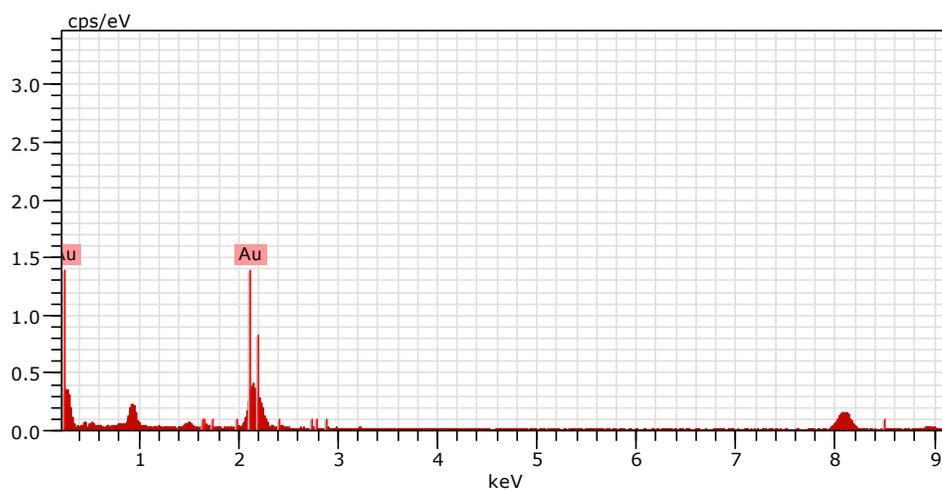


ESI-Figure 1d. Main EDS signals of samples containing AgNPs.

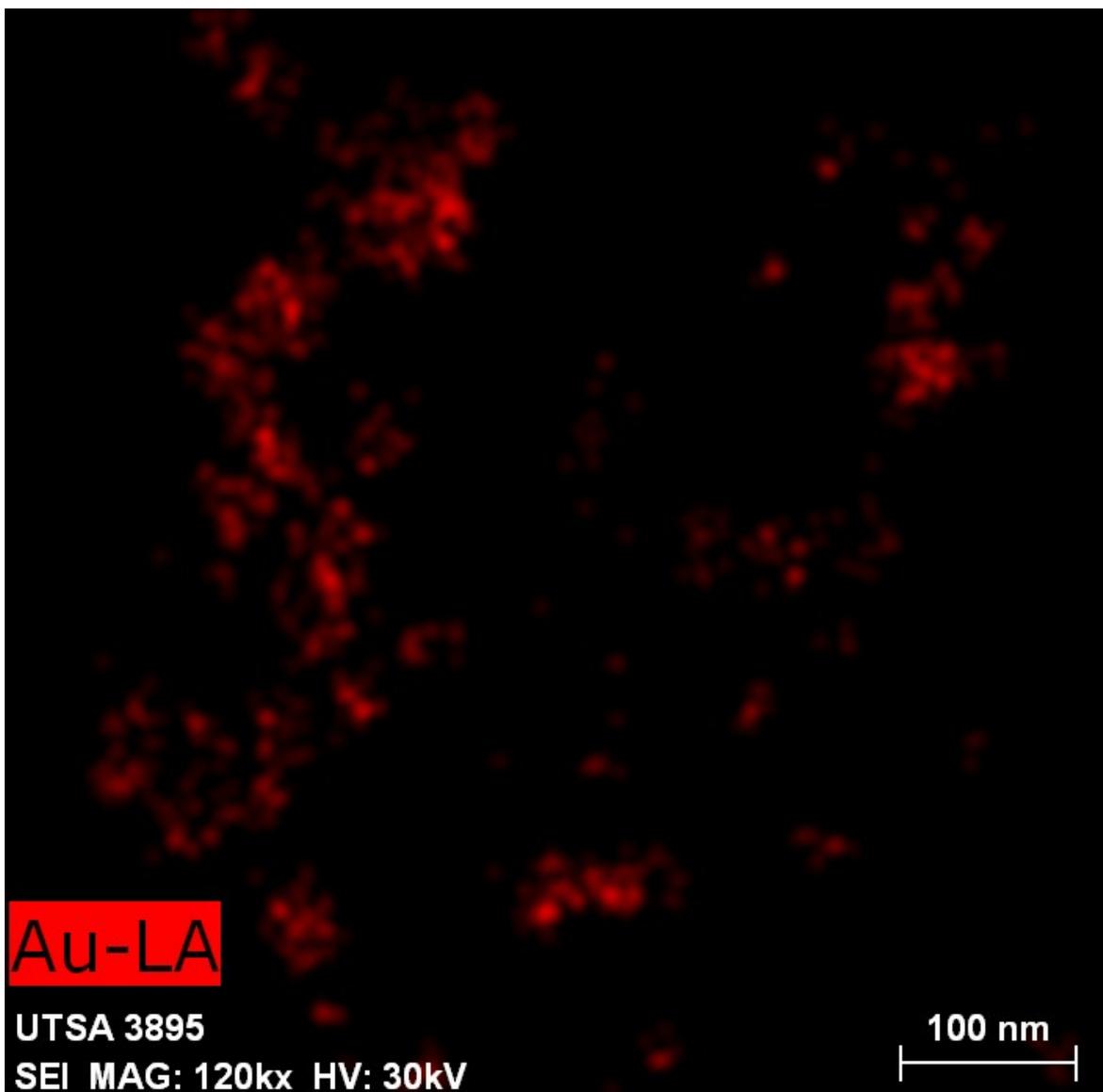
AgNPs formed and evolved in chloroformic medium, from reduction of [CTA⁺...AuBr₄⁻] - liquor with [CTA⁺...BH₄⁻] – liquor.



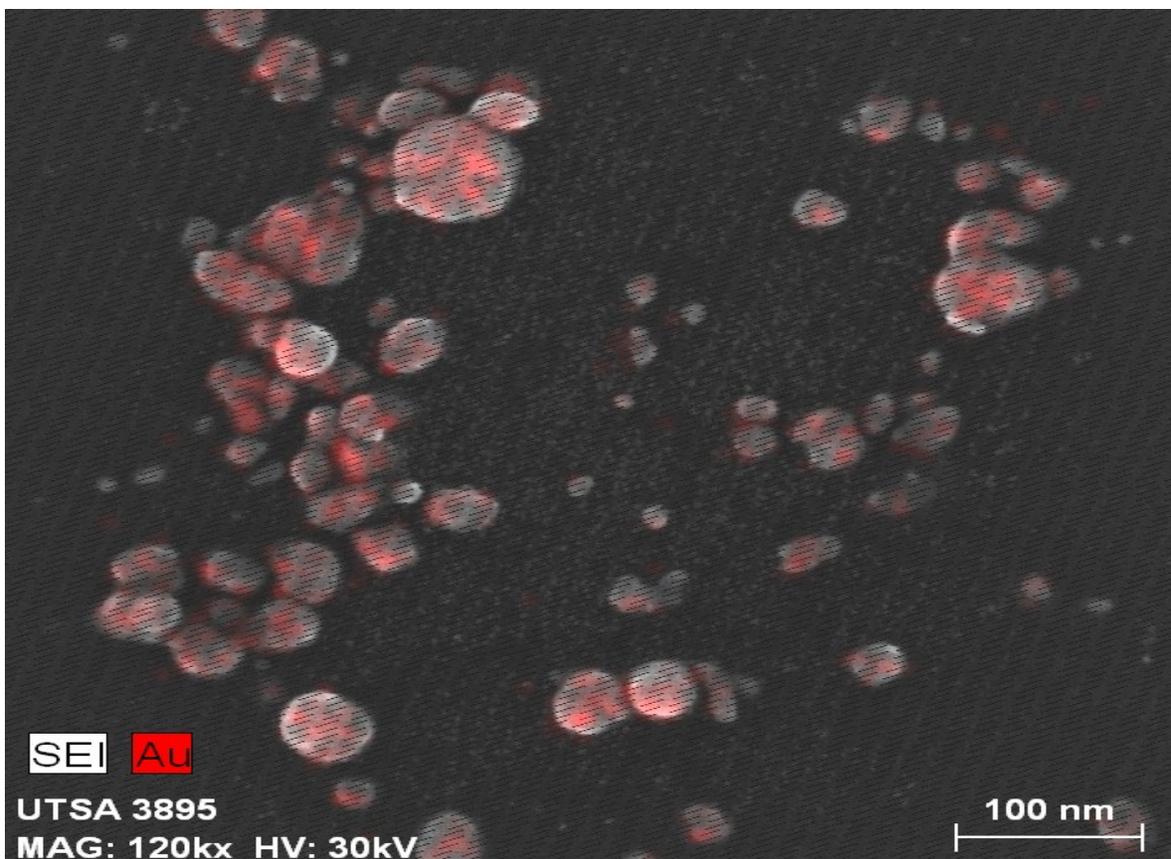
ESI-Figure 2a. Bright Field image of AuNPs.



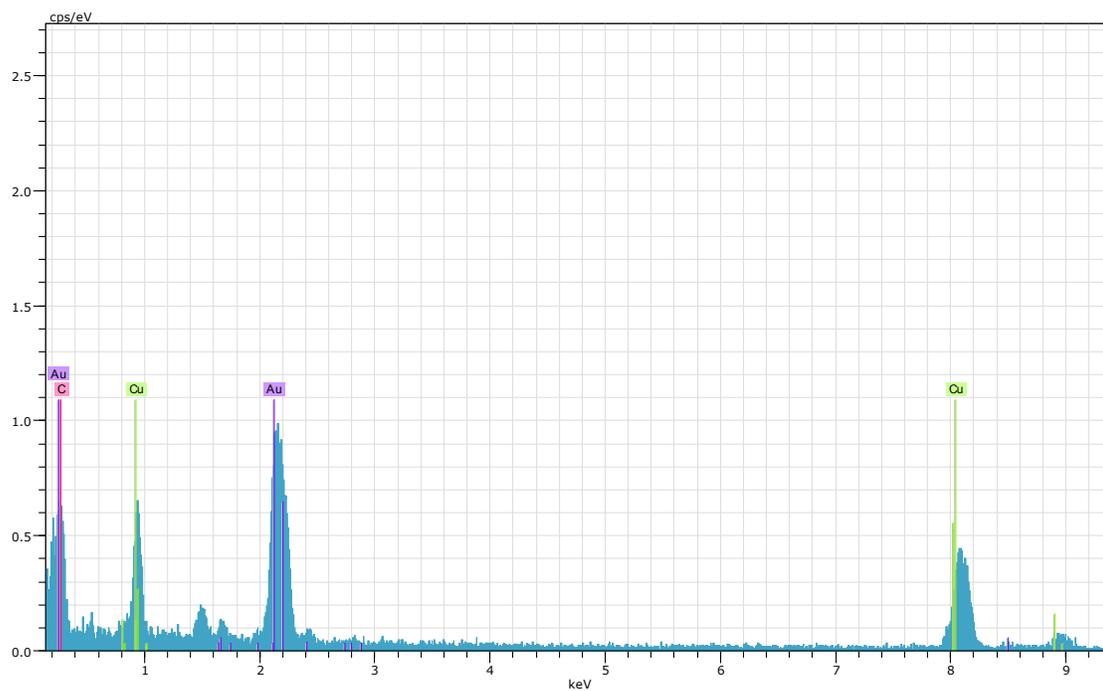
ESI-Figure 2b. Signal selected for EDS mapping of AuNPs.



ESI-Figure 2c. Map of EDS of AuNPs.

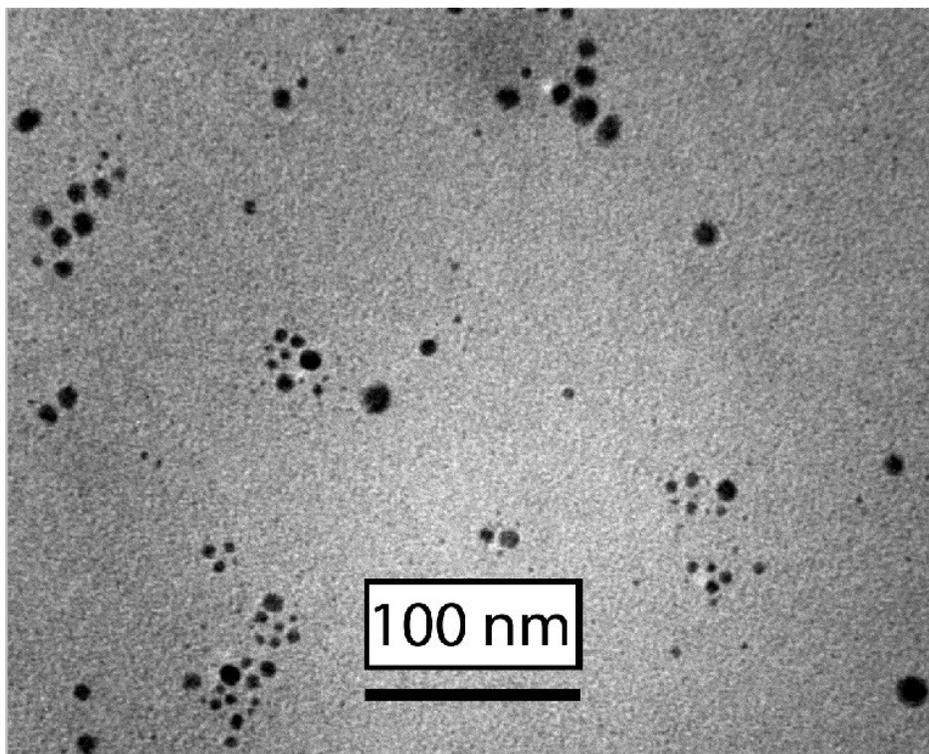


ESI-Figure 2d. EDS map superimposed to STEM image of AuNPs.



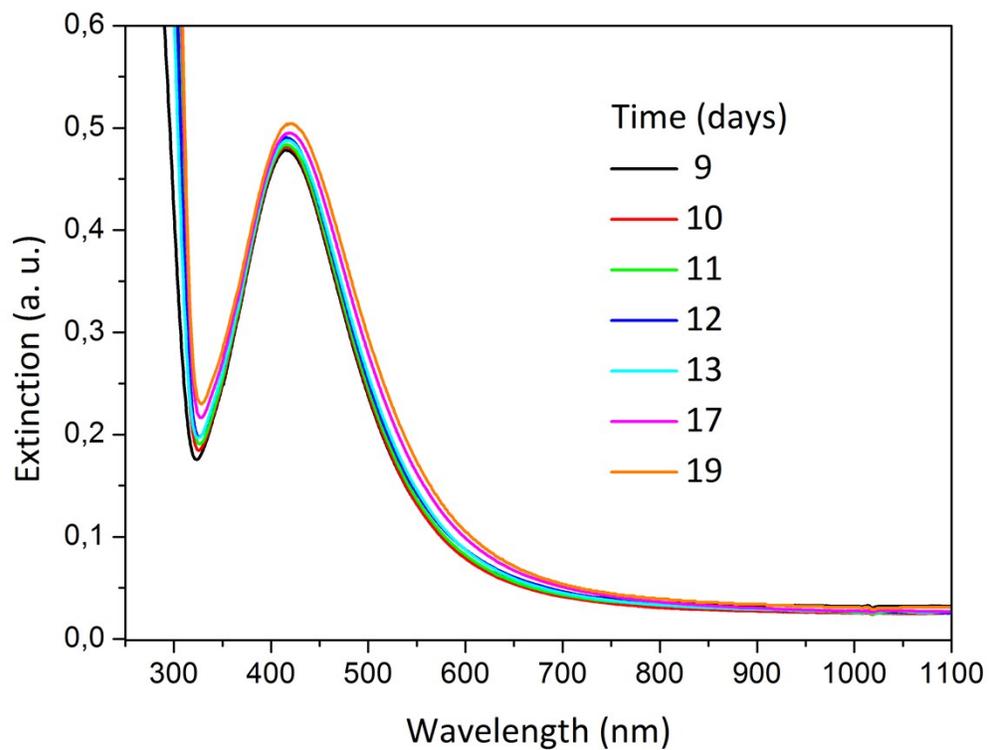
ESI-Figure 2e. Main EDS signals of samples containing AuNPs.

B) TEM of AgNPs produced from of Ag₂O colloids



ESI-Figure 3. TEM images of AgNPs produced from the reduction of chloroformic Ag₂O colloid with chloroformic [CTA⁺···BH₄⁻]-liquor, after 6 days of reaction.

C) Spectral behaviour of AgNPs produced from of Ag₂O colloids during the formation stage



ESI-Figure 4. UV-Visible spectral evolution of AuNPs in chloroform formed from of the Ag₂O colloids.