

Femtomolar Detection of Thiram via SERS using Silver Nanocubes as an Efficient Substrate

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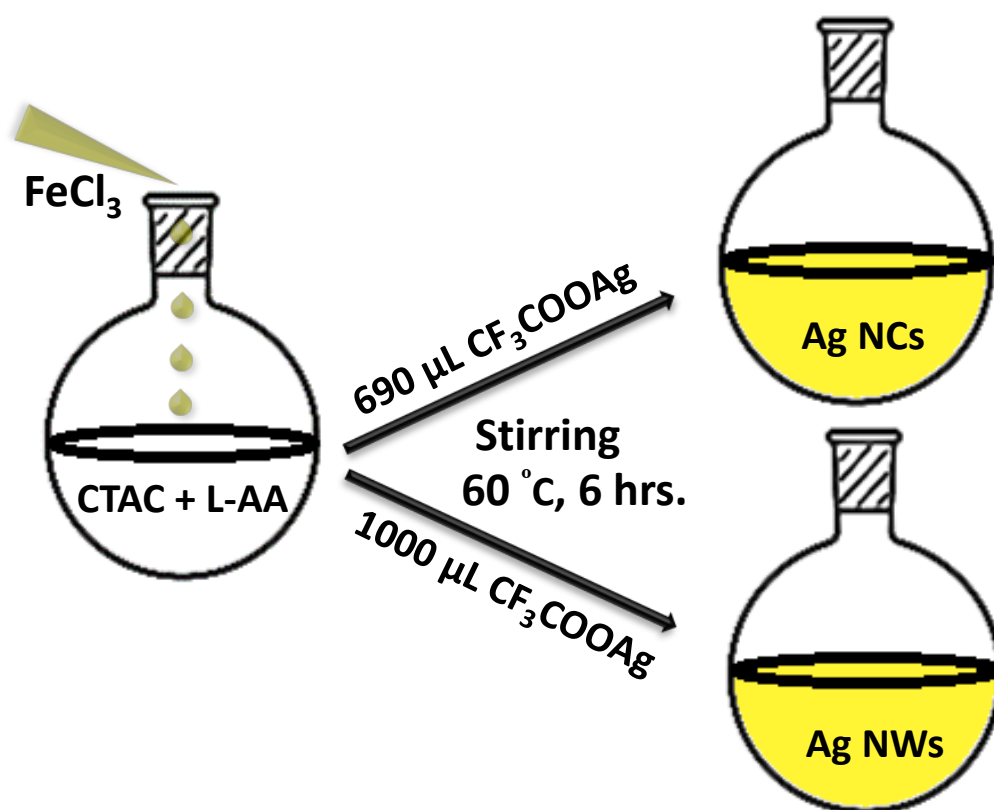


Figure S1. Synthesis scheme of Ag NCs and Ag NWs using one pot method.

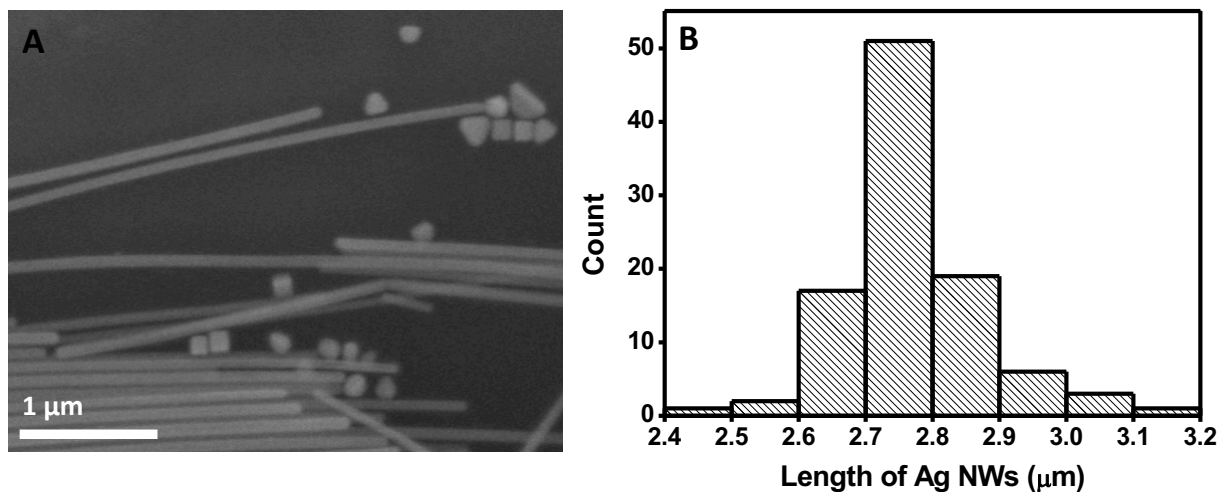


Figure S2. (A) FESEM image and (B) Histogram of length of Ag NWs.

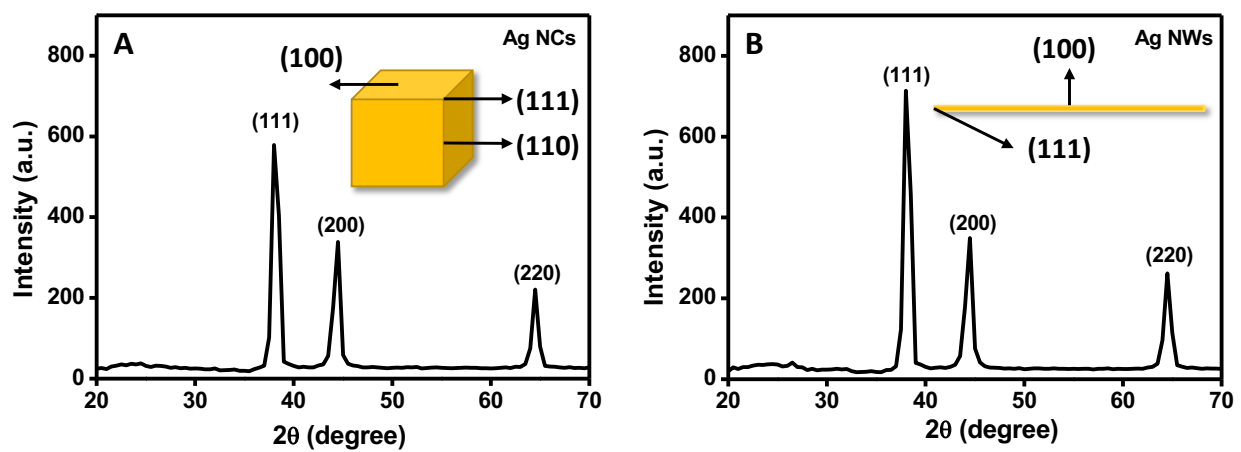


Figure S3. P-XRD patterns of (A) Ag NCs and (B) Ag NWs. Inset displays the labelling of different facets in (A) Ag NCs and (B) Ag NWs.

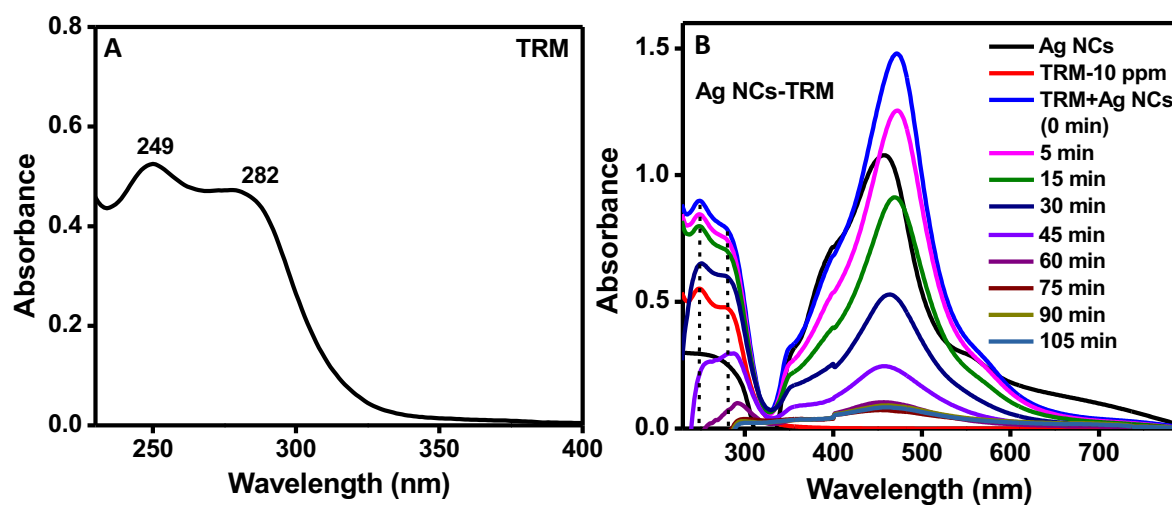


Figure S4. UV-vis absorption of (A) TRM and (B) TRM with Ag NCs.

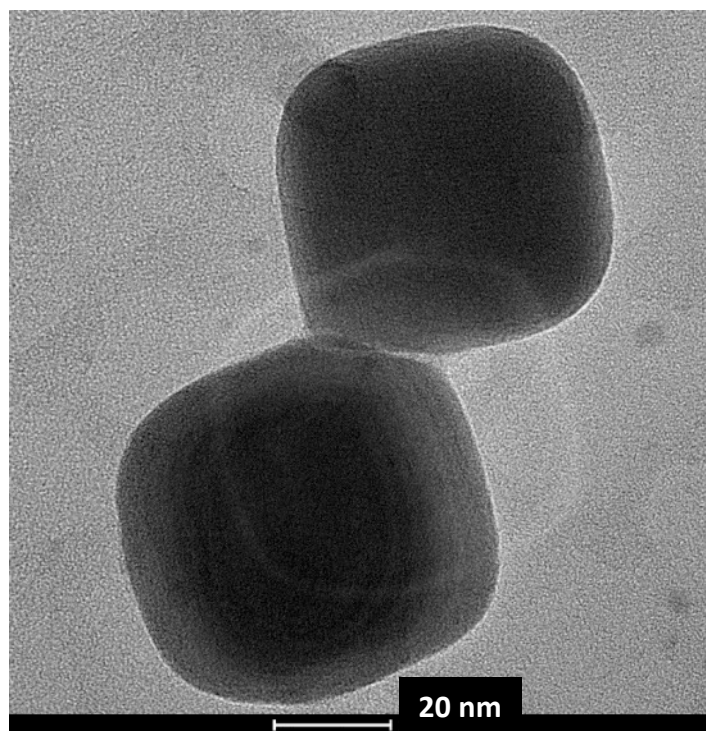


Figure S5. TEM image of Ag NCs reacted with TRM.

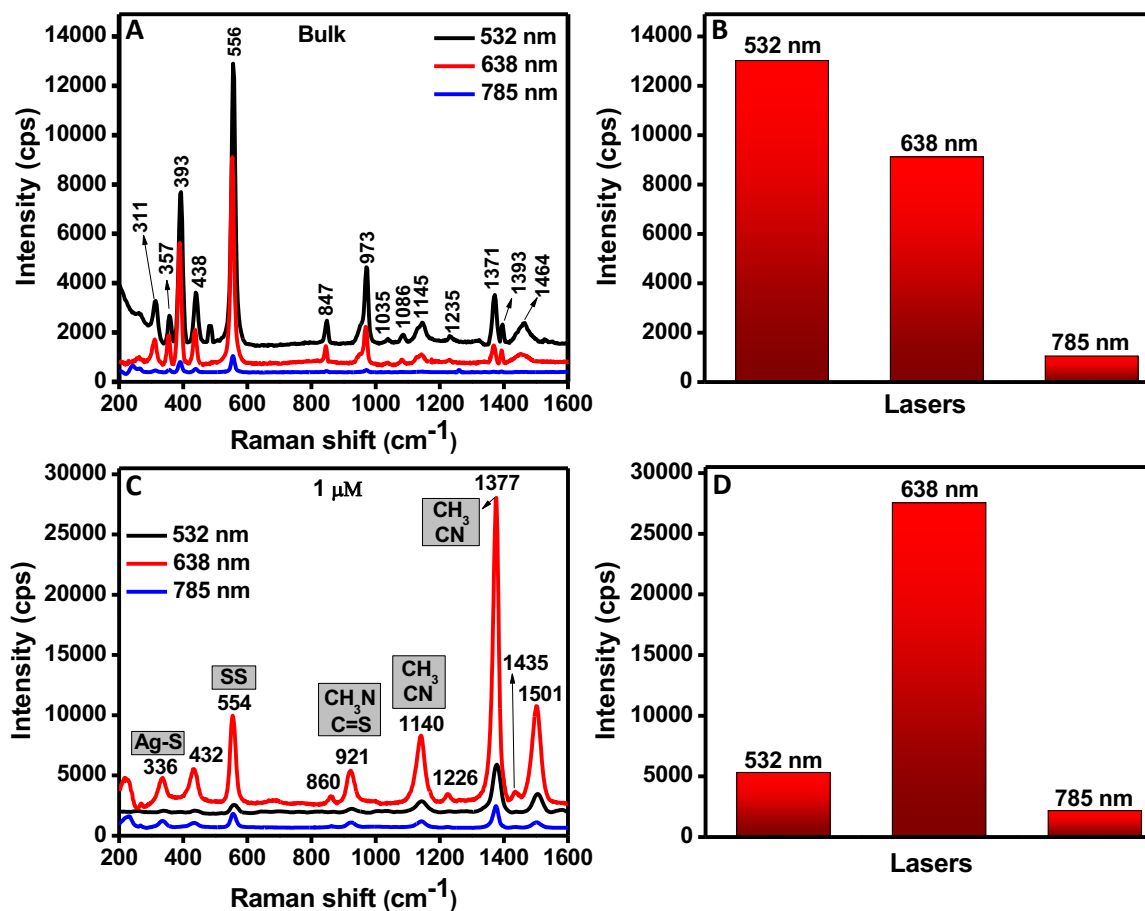


Figure S6. (A) Raman spectra of solid TRM, (B) intensity comparison graph of bulk TRM using different lasers, (C) SERS spectra of 1 μM TRM with Ag NCs and (D) SERS intensity comparison graph of 1 μM TRM with Ag NCs using different lasers.

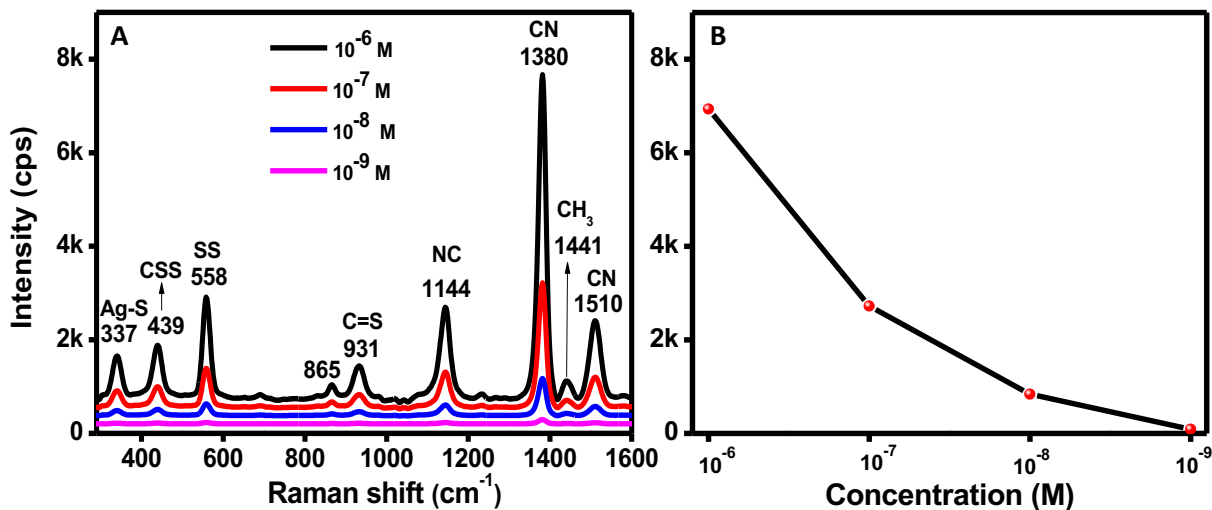


Figure S7. (A) SERS analysis of TRM at different concentration with Ag NWs. (B) 1380 cm^{-1} peak intensity vs. concentration of TRM.

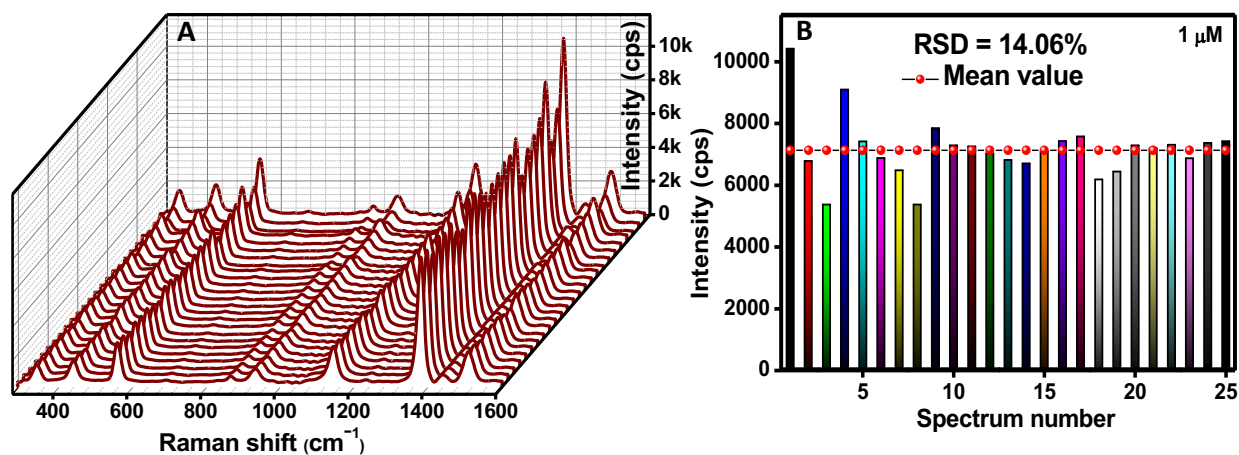


Figure S8. (A) SERS spectra obtained from 25 different random places of $1\text{ }\mu\text{M}$ TRM with Ag NWs for uniformity study, (B) Bar graph of TRM ($1\text{ }\mu\text{M}$) adsorbed on Ag NWs at 25 different places with respect to intense peak at 1380 cm^{-1} peak and RSD plot for mean value and measured values with respect to 1380 cm^{-1} peak.

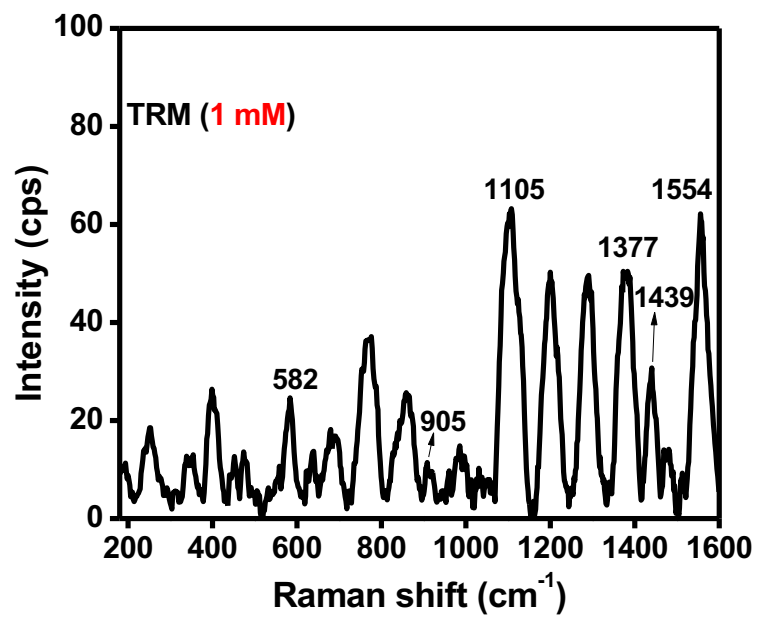


Figure S9. Raman spectrum of TRM of 1 mM concentration.

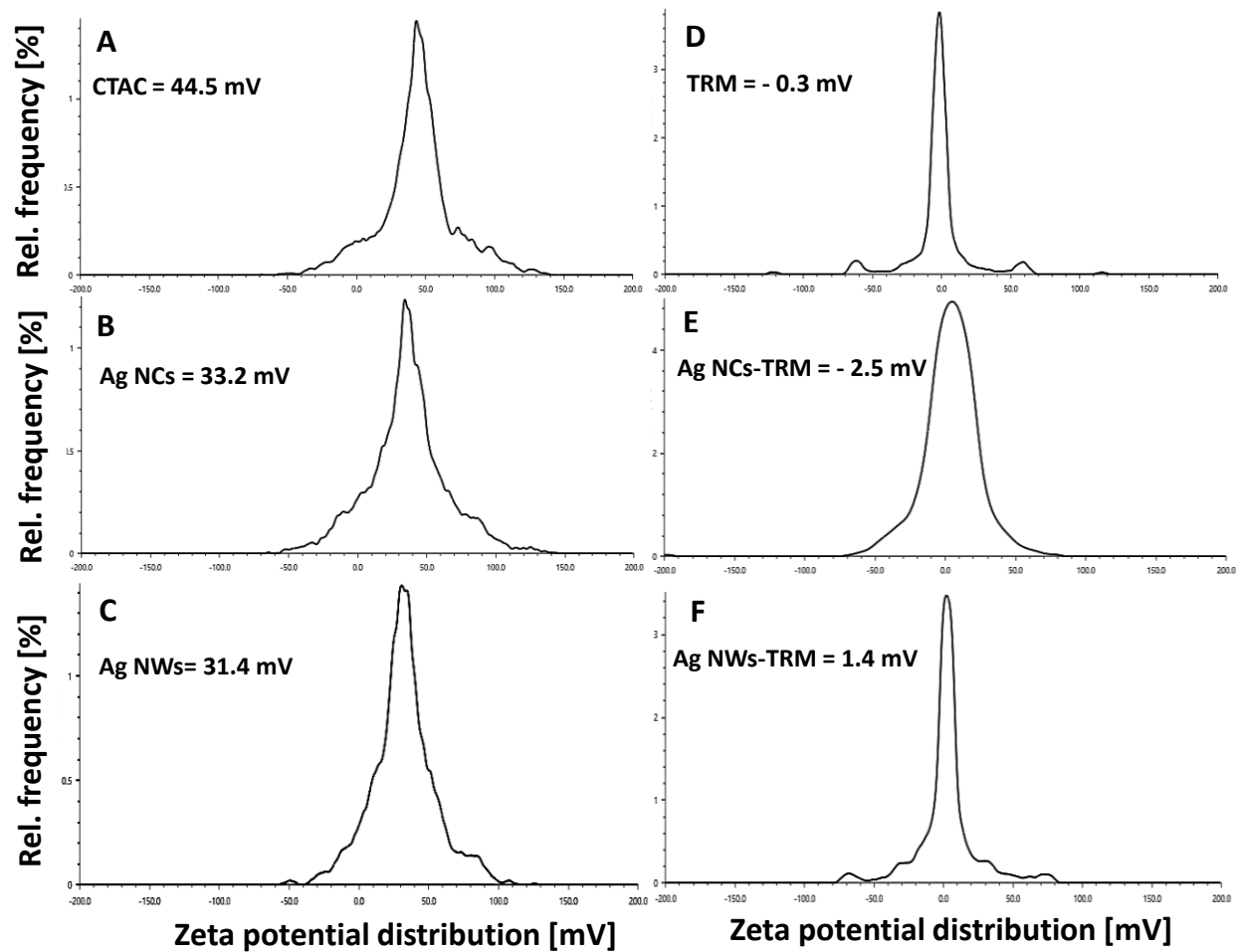


Figure S10. Zeta potential value of (A) CTAC, (B) Ag NCs, (C) Ag NWs, (D) TRM, (E) Ag NCs reacted with TRM and (F) Ag NWs reacted with TRM.