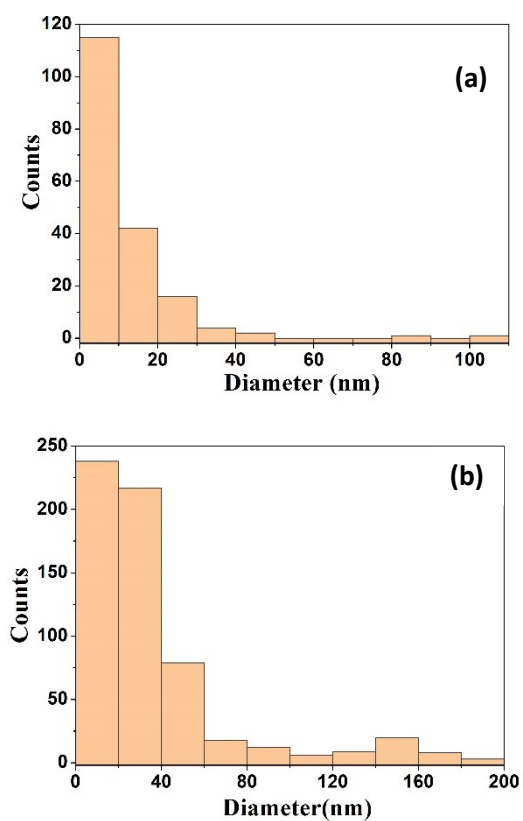
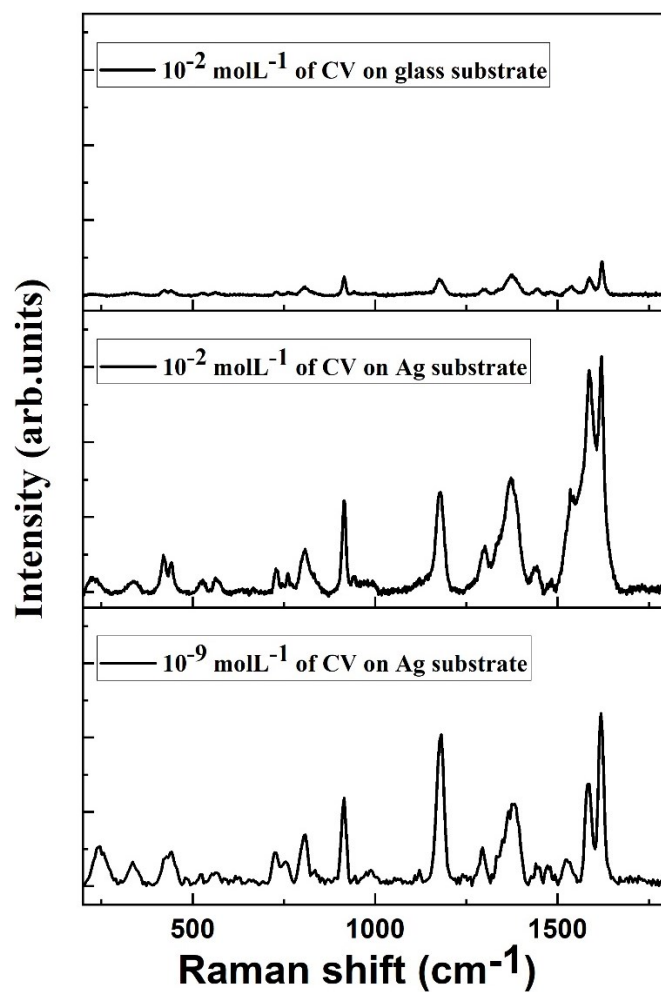


### Electronic Supplementary Information (ESI)



**Fig. S1.** Cluster size distribution (a) before and (b) after annealing the sample.



**Fig. S2.** Raman spectrum of  $10^{-9}$  molL $^{-1}$  CV attached to annealed Ag nanoclusters deposited on glass substrate in comparison to the Raman spectra of  $10^{-2}$  molL $^{-1}$  CV attached to annealed Ag nanoclusters deposited on glass substrate and directly placed on glass substrate. An enhancement factor of  $4.08 \times 10^8$  was measured in the case of  $10^{-9}$  molL $^{-1}$  CV considering 1177 cm $^{-1}$  peak of CV.