

Supporting information

Effect of halogen addition to monolayer protected gold nanoparticles

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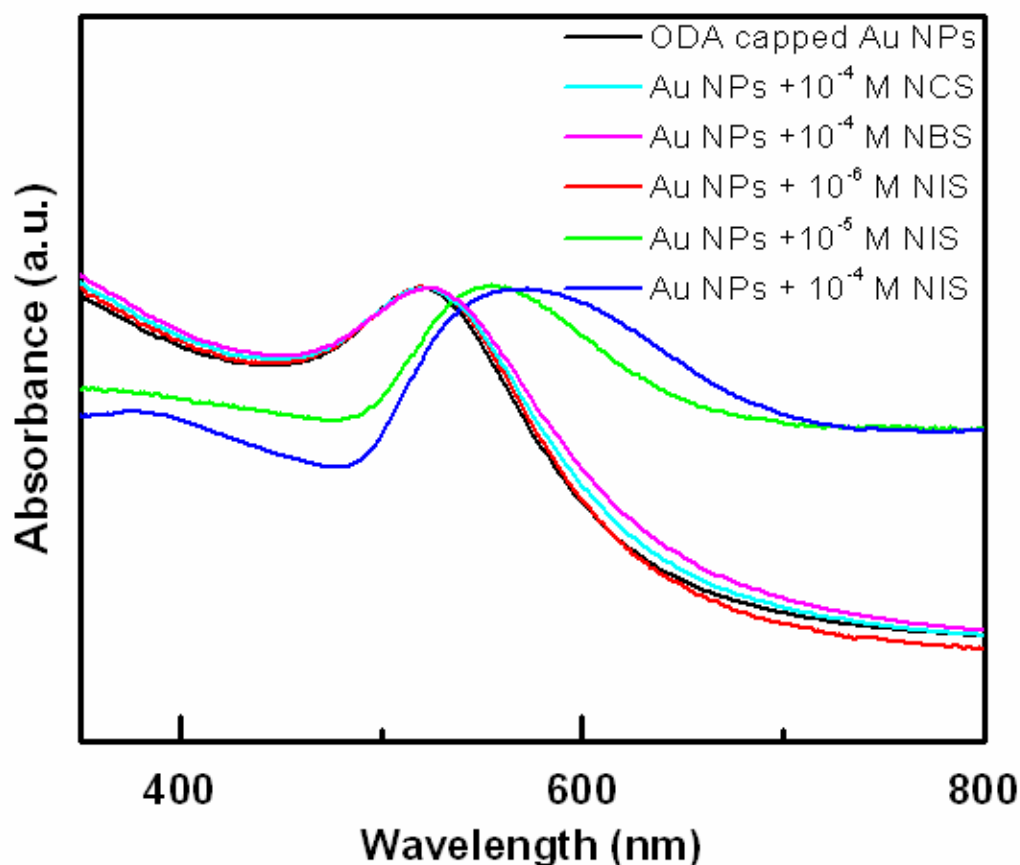


Fig. S1: Optical absorbance spectra of ODA capped nanoparticles after addition of 1×10^{-4} M NCS and NBS and NIS at various concentrations.

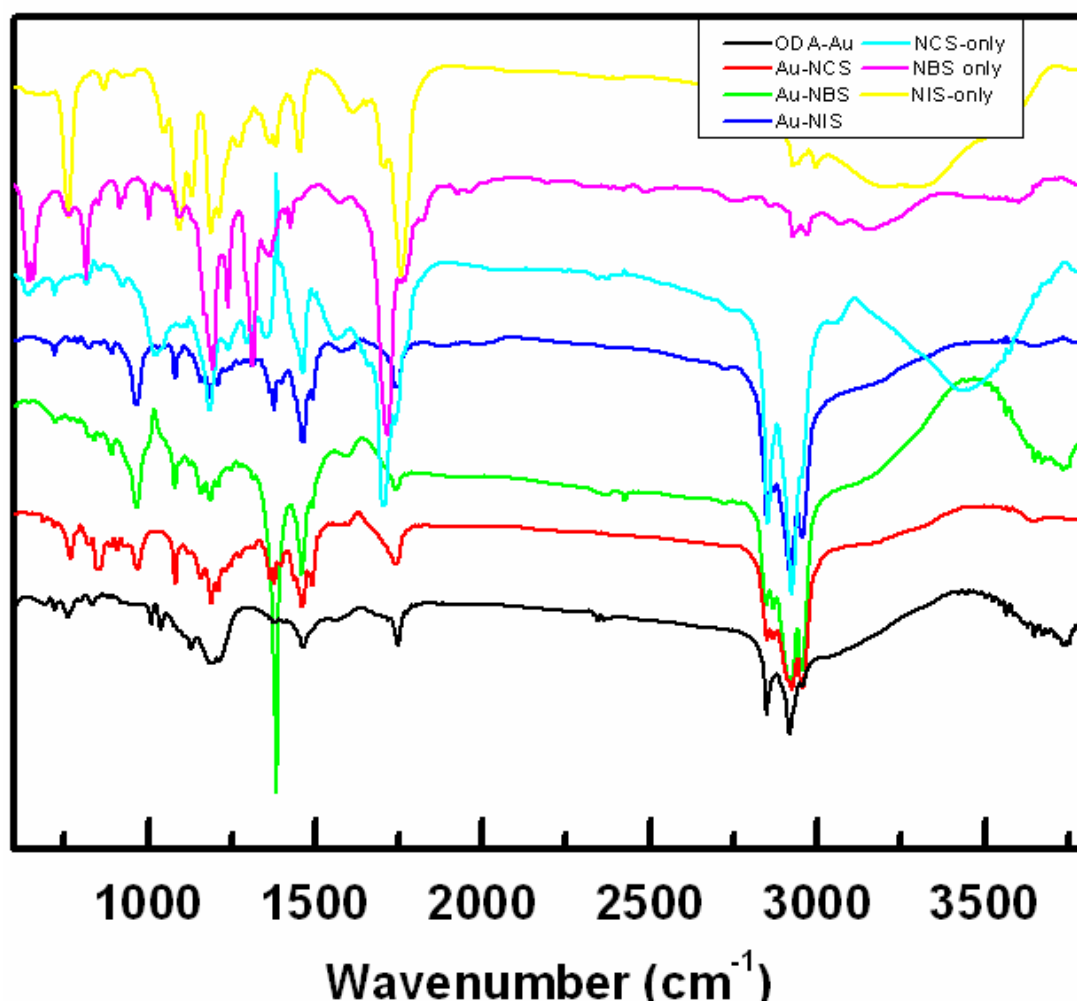


Fig. S2: FTIR spectra of ODA capped nanoparticles after addition of NCS, NBS and NIS. The spectra of ODA capped Au nanoparticles as well as those of pure NCS, NBS and NIS are also shown.

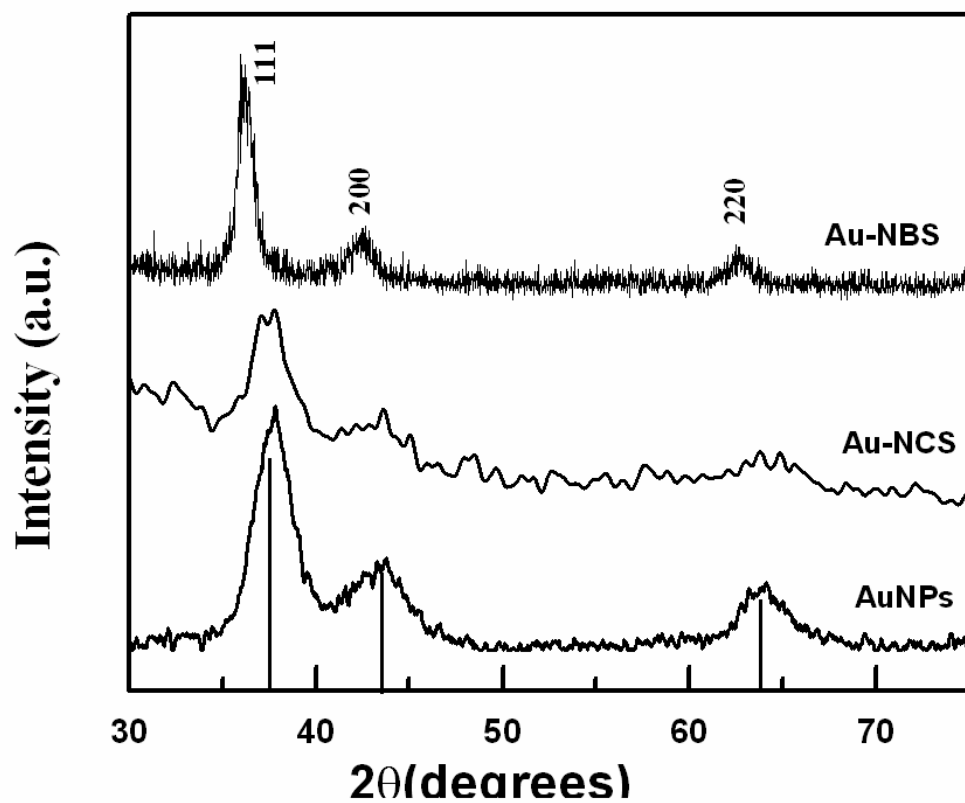


Fig. S3: Powder XRD of ODA capped Au NPs and the same after the addition of NCS and NBS. Notice the absence of any peak corresponding to Au-halide compounds.

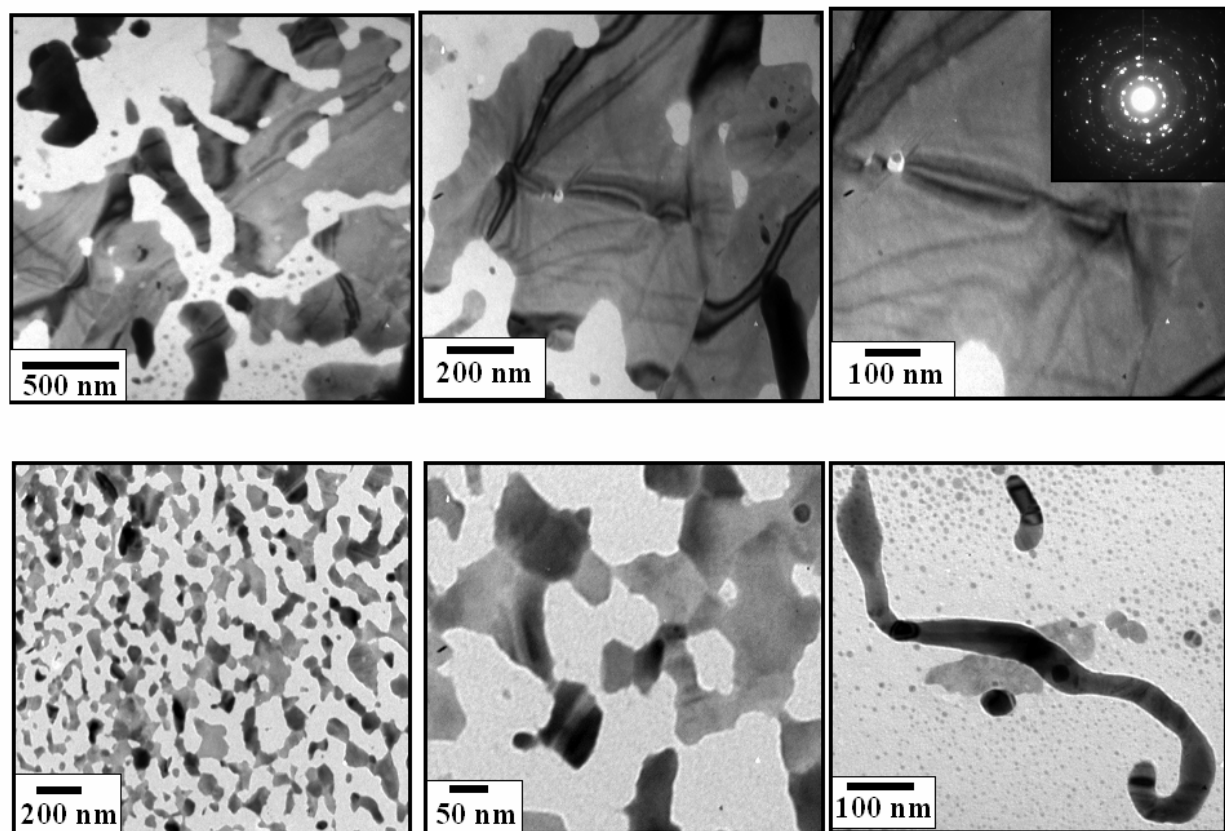


Fig. S4: Representative TEM images of flat structures obtained after exposure to e-beam to the sample obtained by adding CuI to ODA capped Au NPs.

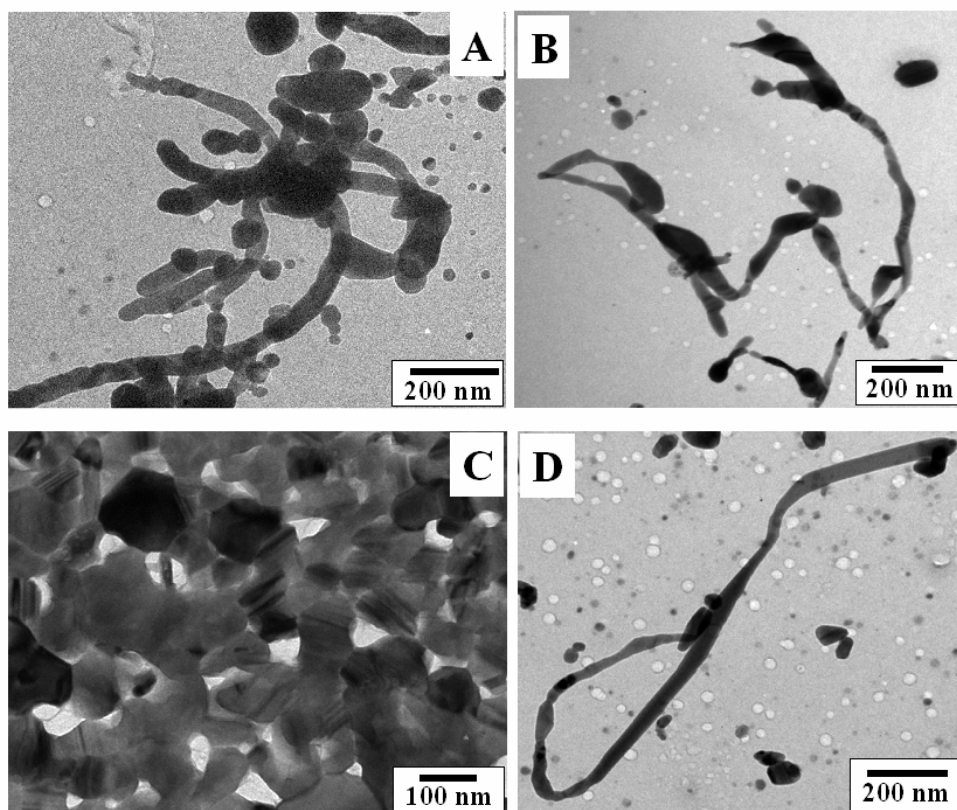


Fig. S5: Representative TEM images of flat structures obtained after exposure to e-beam to the sample obtained by adding CuI to ODA capped Au NPs.

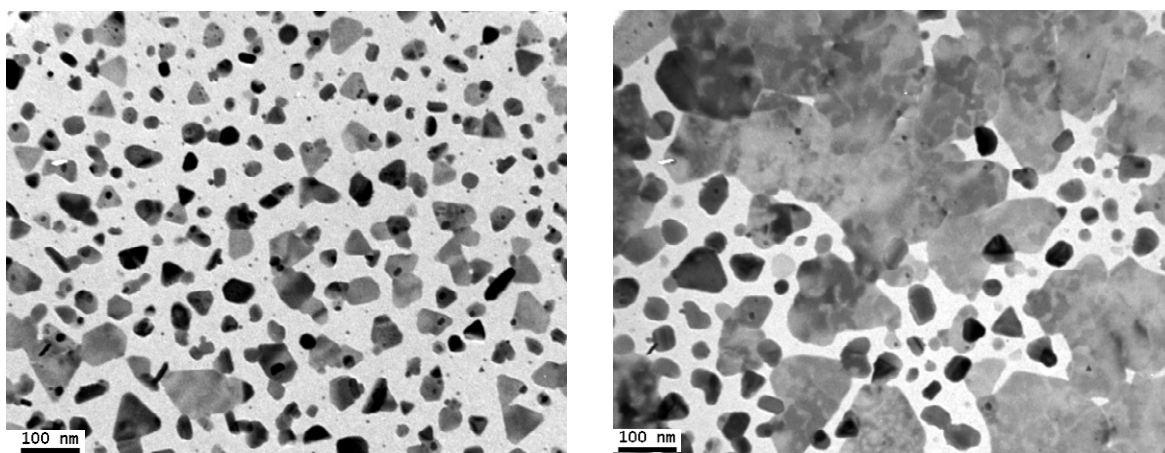


Fig. S6: Representative TEM images of flat structures obtained after UV-irradiation of the sample obtained by adding CuI to ODA capped Au NPs. Contrary to the images displayed in Fig. S5 these flat structures were already present on the TEM grid.

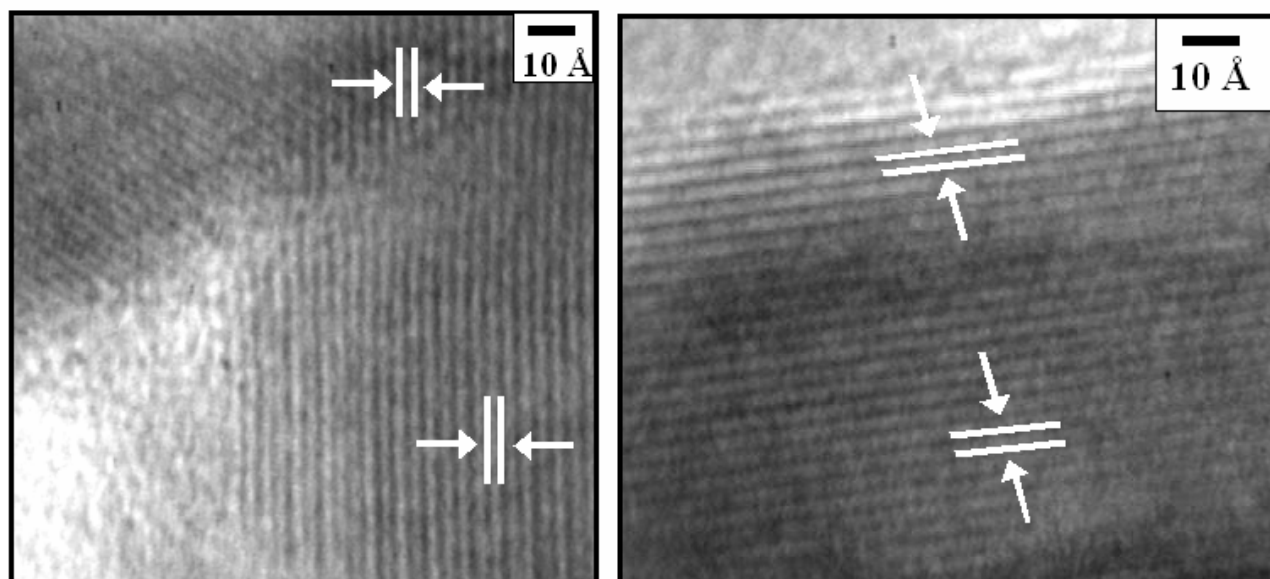


Fig. S7: HRTEM images of flat structures showing the lattice planes close to that Aul (004) planes.