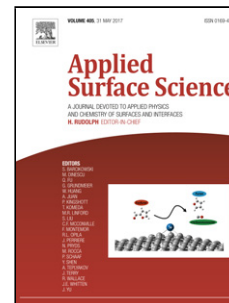


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Title: Nanospectroscopy of thiacyanine dye molecules adsorbed on silver nanoparticle clusters

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- 90 % of the SERS total enhancement originates from gaps between nanoparticles
- The E field component perpendicular to the cluster surface is the main source of the SERS signal
- The highest enhancement factors are reached at collective NP plasmon resonances
- In the non-resonant case enhancement factors in the range of 10^2 - 10^3 are to be expected
- Citrate anions exhibit blinking SERS spectra during successive measurements
- Thiocyanine dye molecules have stable SERS spectra during successive measurements
- Citrate anions impede the efficient thiocyanine dye adsorption

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