



· SERS offers molecular specific information and sensitivity



- high preparation success rate
- regenerative (multiple uses)



Laser-induced growth of Ag-nanoparticles • Considerations: - Prefabrication of SERS substrate prior to use seems to be prob

 Prefabrication of SERS substrate prior to use seems to be problematic Memory effects !!

Idea:

In-situ synthesis of a small substrate in the detection window



In the presence of citrate (reducing agent) Ag-nanoparticles are formed from aqueous AgNO₃ on a glass substrate, by laser irradiation.

Bjerneld E.J., Murty K.V.G.K., Prikulis J., Kall M. Laser-induced growth of Ag nanoparticles from aqueous solutions (2002) ChemPhysChem, 3 (1), pp. 116-119.























