



ultrasensitive laser spectroscopy pdf

Fluorescence correlation spectroscopy (FCS) is a correlation analysis of fluctuation of the fluorescence intensity. The analysis provides parameters of the physics under the fluctuations. One of the interesting applications of this is an analysis of the concentration fluctuations of fluorescent particles (molecules) in solution.

Fluorescence correlation spectroscopy - Wikipedia

Surface-enhanced Raman spectroscopy or surface-enhanced Raman scattering (SERS) is a surface-sensitive technique that enhances Raman scattering by molecules adsorbed on rough metal surfaces or by nanostructures such as plasmonic-magnetic silica nanotubes. The enhancement factor can be as much as 10^{10} to 10^{11} , which means the technique may detect single molecules.

Surface-enhanced Raman spectroscopy - Wikipedia

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Analytical Chemistry (ACS Publications)

Hair Analysis: Contamination versus Incorporation from the Circulatory System—Investigations on Single Hair Samples Using Time-of-Flight Secondary Ion Mass Spectrometry and Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry

Analytical Chemistry (ACS Publications)

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Physical Property Measurement System - Quantum Design

Abstract. As a major foodborne pathogen, Salmonella enterica serotype Enteritidis is increasingly rising as a global health concern. Here, we developed an integrated assay that combines loop mediated isothermal amplification (LAMP) and surface enhanced Raman spectroscopy (SERS) for DNA detection of S. Enteritidis using specifically designed Raman active Au-nanoprobes.

Development of a Loop Mediated Isothermal Amplification

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Cholesterol is a sterol and biosynthesized in all animal cells as it is an essential structural component of all animal cell membranes. Beside this, cholesterol also serves as a precursor for the biosynthesis of steroid

That's it. The color change shows that a blast occurred. The purpose? One stated goal is to monitor soldiers. The problem is that they may survive the immediate blast event, but suffer delayed brain damage -- called traumatic brain injury (TBI). The blast detector described here could document the blast, thus serving as a warning that the soldier needs medical attention for a condition that ...

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