

Surface Enhanced Raman Scattering Measurement From A Lipid

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Surface Enhanced Raman Scattering Measurement

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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Surface Enhanced Raman Scattering Measurement From A Lipid ...

Abstract. On nanotextured noble-metal surfaces, surface-enhanced Raman scattering (SERS) is observed, where Raman scattering is enhanced by a factor, G , that is frequently about one million, but underlying the factor G is a broad distribution of local enhancement factors, etc. We have measured this distribution for benzenethiolate molecules on a 330-nanometer silver-coated nanosphere lattice using incident light of wavelength 532 nanometers.

Measurement of the distribution of site enhancements in ...

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Surface Enhanced Raman Scattering Measurement From A Lipid

In this work, a surface-enhanced Raman scattering (SERS)-active droplet with three-dimensional (3D) hot spots prepared from a superhydrophobic SERS substrate, which is inspired by the nut wizard strategy, was developed for ultrasensitive detection in complex liquid environments.

Self-Concentrated Surface-Enhanced Raman Scattering-Active ...

teristics of the flexible sensors render them timely monitoring, Surface-enhanced Raman scattering (SERS) spectroscopy provides a noninvasive and highly sensitive route for fingerprint and label-free detection of a wide range of molecules.

Toward Flexible Surface-Enhanced Raman Scattering (SERS ...

Electrochemical surface-enhanced Raman spectroscopy/scattering (EC-SERS) uses a system consisting of nanostructured electrodes immersed in an electrolyte to obtain vibrational information for molecule characterization and identification.

Electrochemical surface-enhanced Raman scattering ...

A surface plasmon resonance (SPR)-surface enhanced Raman scattering (SERS) microspectrometer was designed to obtain the incident angle dependence of SERS signals excited by the evanescent field.

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(PDF) Note: Simultaneous measurement of surface plasmon ...

chemosensors Review Biomarkers Determination Based on Surface-Enhanced Raman Scattering
Chao Song 1, Shuang Guo 2, Sila Jin 2, Lei Chen 3,* and Young Mee Jung 2,* 1 Teaching Affairs Office, Jilin Normal University, Siping 136000, China; songchao@jlnu.edu.cn 2 Department of Chemistry, Institute for Molecular Science and Fusion Technology, Kangwon National University, Chunchon 24341, Korea ...

Biomarkers Determination Based on Surface-Enhanced Raman ...

Surface-Enhanced Raman Scattering (SERS) Raman signals are inherently weak, especially when using visible light excitation and so a low number of scattered photons are available for detection. One method to amplify weak Raman signals is to employ surface-enhanced Raman scattering (SERS).

Surface-enhanced Raman Scattering - Semrock

Surface-enhanced Raman scattering (SERS) spectroscopy is a popular technique for detecting chemicals in small quantities. Rough metallic surfaces with nanostructures are some of the most widespread and commercially successful substrates for efficient SERS measurements.

Adaptive optics approach to surface-enhanced Raman scattering

Antimicrobial resistance and multidrug resistance are slower-moving pandemics than the fast-spreading coronavirus disease 2019; however, they have potential to cause a much greater threat to global health. Here, we report a clustered regularly interspaced short palindromic repeats (CRISPR)-mediated surface-enhanced Raman scattering (SERS) assay for multidrug-resistant (MDR) bacteria. This ...

Clustered Regularly Interspaced Short Palindromic Repeats ...

However, the low scattering cross section (10^{-31}) of Raman scattering has limited the applications of the conventional Raman spectroscopy. With the discovery of surface-enhanced Raman scattering (SERS) in 1973 by Martin Fleischmann, the interest of the research community in Raman spectroscopy as an analytical method has been revived.

Surface-Enhanced Raman Scattering: Introduction and ...

This paper presents the first in vivo application of surface-enhanced Raman scattering (SERS). SERS was used to obtain quantitative in vivo glucose measurements from an animal model.

In Vivo Glucose Measurement by Surface-Enhanced Raman ...

On nanotextured noble-metal surfaces, surface-enhanced Raman scattering (SERS) is observed, where Raman scattering is enhanced by a factor, G , that is frequently about one million, but underlying...

Measurement of the Distribution of Site Enhancements in ...

Since its discovery in 1974, surface-enhanced Raman scattering (SERS) has gained momentum as an important tool in analytical chemistry. SERS is used widely for analysis of biological samples, ranging from in vitro cell culture models, to ex vivo tissue and blood samples, and direct in vivo application.

Bioanalytical Measurements Enabled by Surface-Enhanced ...

An ultra-sensitive SERS (surface-enhanced Raman scattering) substrate was fabricated orderly by depositing 360 nm Ag film on the surface of V-shaped AAO (anodized aluminum oxide), utilizing NaOH solution to remove the AAO template, the neat volcano-like Ag arrays substrate (N-V-Ag) was obtained, and then depositing 1.5, 6 and 10 nm Ag film on the surface of the N-V-Ag to obtain the AgNPs ...

OSA | AgNPs decorated volcano-like Ag arrays for ultra ...

We propose and demonstrate a flexible surface-enhanced Raman scattering (SERS) chip as a versatile platform for femtomolar detection and real-time interfacial molecule analysis. The flexible SERS chip is composed of a flexible and transparent membrane and embedded plasmonic dimers with ultrahigh par ...

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