

Surface Enhanced Raman Scattering Researchgate

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Surface Enhanced Raman Scattering Researchgate

Abstract On the basis of different types of experiments, the authors develop implicitly the model of surface-enhanced Raman scattering (SERS) of adsorbates on metal surfaces. The long-range...

(PDF) Surface-Enhanced Raman Scattering - ResearchGate

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.

Surface Enhanced Raman Scattering - ResearchGate

Surface-enhanced Raman scattering (SERS) is a phenomenon resulting in strongly increased Raman signals when molecules are attached to nanometersized metallic structures.

Online Library Surface Enhanced Raman Scattering Researchgate

Surface-Enhanced Raman Scattering - ResearchGate

Surface-enhanced Raman scattering (SERS) is a powerful technique for detection and characterization because of its extremely high sensitivity and the rich structural information that it can offer.

Surface-Enhanced Raman Scattering - ResearchGate

The enormous success of surface enhanced Raman scattering (SERS), and its use in diagnostics, is caused by the availability of plasmonic nano-structures , which allow for strong resonances of the...

Surface-Enhanced Raman Scattering ... - ResearchGate

Abstract The Surface Enhanced Raman Scattering (SERS) has demonstrated its high efficiency to increase the Raman signal of chemical and biological species and to be able to observe and identify a...

Explosive detection by Surface Enhanced Raman Scattering

Surface-enhanced Raman scattering (SERS) can enhance the intensity of Raman radiation by many orders of magnitude for molecules bound to metallic nanostructures.

Surface Plasmon Structures for Surface-Enhanced Raman

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Enhanced Raman Scattering Researchgateof its extremely high sensitivity and the rich structural information that it can offer. Surface-Enhanced Raman Scattering - ResearchGate Surface-enhanced Raman scattering (SERS) has become a powerful tool in chemical, material and life sciences, Page 9/27

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Surface-enhanced resonance Raman scattering for the sensitive detection of a tuberculosis biomarker in human serum. Nicholas A. Owens. <http://orcid.org/0000-0002-6349-9510>. Department of Chemistry, University of Utah, Salt Lake City, Utah, United States. Department of Bioengineering, University of Utah, Salt Lake City, Utah, United States.

Surface-enhanced resonance Raman scattering for the ...

Surface-enhanced Raman scattering (SERS) has become a mature vibrational spectroscopic technique during the last decades and the number of applications in the chemical, material, and in particular life sciences is rapidly increasing.

Surface-Enhanced Raman Spectroscopy: Concepts and Chemical ...

Abstract DNA origami holds an unprecedented capability on assembling metallic nanoparticles into designer plasmonic metamolecules of emerging properties, including surface-enhanced Raman scattering (SERS). SERS metamolecules were produced by positioning nanoparticles in close proximity to each other on a DNA origami template for Raman enhancement.

Programming Surface-Enhanced Raman Scattering of DNA ...

A surface-enhanced Raman scattering-chiral anisotropy (SERS-ChA) effect is reported that combines chiral discrimination and surface Raman scattering enhancement on chiral nanostructured Au films (CNAFs) equipped in the normal Raman scattering Spectrometer.

Enantiomeric Discrimination by Surface-Enhanced Raman ...

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.

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Surface-enhanced Raman spectroscopy - Wikipedia

In the late 1970s, signal intensity in Raman spectroscopy was found to be enormously enhanced, by a factor of 10^6 and more recently by as much as 10^{14} , when an analyte was placed in the vicinity of a metal nanoparticle (particularly Ag).

A Unified View of Surface-Enhanced Raman Scattering ...

Surface-enhanced Raman spectra of R6G obtained with a linearly polarized confocal laser beam from two Ag nanoparticles. The R6G concentration was 2×10^{-11} M, corresponding to an average of 0.1...

Probing Single Molecules and Single Nanoparticles by ...

One method to amplify weak Raman signals is to employ surface-enhanced Raman scattering (SERS). SERS uses nanoscale roughened metal surfaces typically made of gold (Au) or silver (Ag). Laser excitation of these roughened metal nanostructures resonantly drives the surface charges creating a highly localized (plasmonic) light field.

Surface-enhanced Raman Scattering - Semrock

Raman scattering is an inelastic scattering of a photon, meaning that scattered photons will have different frequencies from the excitation. When the scattering molecules are on a textured surface, the Raman scattering can be greatly enhanced (thus the term Surface Enhanced Raman scattering (SERS)).

Surface-enhanced Raman scattering - Lumerical Support

Abstract The advent of miniaturized, fiber-based, Raman spectrometers provides a clear path for the wide implementation of surface-enhanced Raman scattering (SERS) in analytical chemistry. For instance, miniaturized systems are especially useful in field applications due to their simplicity and low cost.

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