

### 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...

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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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Alternatively, surface-enhanced Raman scattering (SERS) spectroscopy is a sensitive vibrational technique that might allow for the trace detection of vestigial molecules adsorbed on metal surfaces,...

#### 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.

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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.

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Surface-enhanced Raman scattering (SERS) has become a powerful tool in chemical, material and life sciences, owing to its intrinsic features (i.e., fingerprint recognition capabilities and high...

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Surface Enhanced Raman Scattering (SERS) has been widely praised for its extreme sensitivity but has not so far been put to use in routine

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analytical applications, with the accessible scale of...

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### **Growth and saturation of stimulated Raman scattering in ...**

Almost 30 years after the first reports on surface-enhanced Raman signals, the phenomenon of surface-enhanced Raman scattering (SERS) is now well established. Yet, explaining the enhancement of a spec

### **Surface-Enhanced Raman Scattering | SpringerLink**

In this study, we report a surface-enhanced Raman scattering (SERS)-active array film, which is based on regenerated cellulose hydrogels and gold nanorods (AuNRs), by combining a silicon rubber mask with a vacuum filtration method. This strategy enables the direct AuNR array formation on hydrogel surface with a precisely controlled number density.

### **Surface-Enhanced Raman Scattering-Active AuNR Array ...**

By coupling nanoparticles with surface-enhanced Raman scattering (SERS), surface optical processes can be enhanced by 14 to 15 orders of magnitude.

### **Probing Single Molecules and Single ... - ResearchGate**

A sandwich-type surface-enhanced Raman scattering (SERS) sensor using dual aptamers and gold-enhanced Raman signal probes has been successfully constructed for the detection of tumor-derived extracellular vesicles. The simple and sensitive sensor has the capability to detect tumor extracellular vesicles in the 10-fold diluted human serum samples.

### **Sandwich-type surface-enhanced Raman scattering sensor ...**

Raman scattering or the Raman effect / ' r a: m ən / is the inelastic scattering of photons by matter, meaning that there is an exchange of energy and a change in the light's direction. Typically this involves vibrational energy being gained by a molecule as incident photons from a visible laser are shifted to lower energy.

### **Raman scattering - Wikipedia**

Excitation profiles of SERS (surface-enhanced Raman scattering) and/or SERRS (surface-enhanced resonance Raman scattering) spectral bands of two forms of a Ag–bpy (bpy = 2,2'-bipyridine) surface complex and of [Ru(bpy)<sub>3</sub>]<sup>2+</sup> on Ag nanoparticle (hydrosol) surfaces were determined from the spectra excited in the 458–600 nm region and are reported together with the FT-SERS spectra of the Ag–bpy surface complex and FT Raman spectra of [Ru(bpy)<sub>3</sub>]<sup>2+</sup>.

### **Surface-Enhanced Raman Scattering and Surface-Enhanced ...**

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<sup>10</sup> to 10<sup>11</sup>, which means the technique may detect single molecules.

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### **Surface-enhanced Raman spectroscopy - Wikipedia**

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**

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 ...**

Normal and surface-enhanced Raman spectroscopy of nitroazobenzene submonolayers and multilayers on carbon and silver surfaces Appl Spectrosc. 2007 Jun;61(6):613-20. doi: 10.1366/000370207781269765. Authors Haihe Liang 1 , Hong Tian, Richard L McCreery. Affiliation 1 Department of ...

### **Normal and surface-enhanced Raman spectroscopy of ...**

The discovery of the enhancement of Raman scattering by molecules adsorbed on nanostructured metal surfaces is a landmark in the history of spectroscopic and analytical techniques.

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