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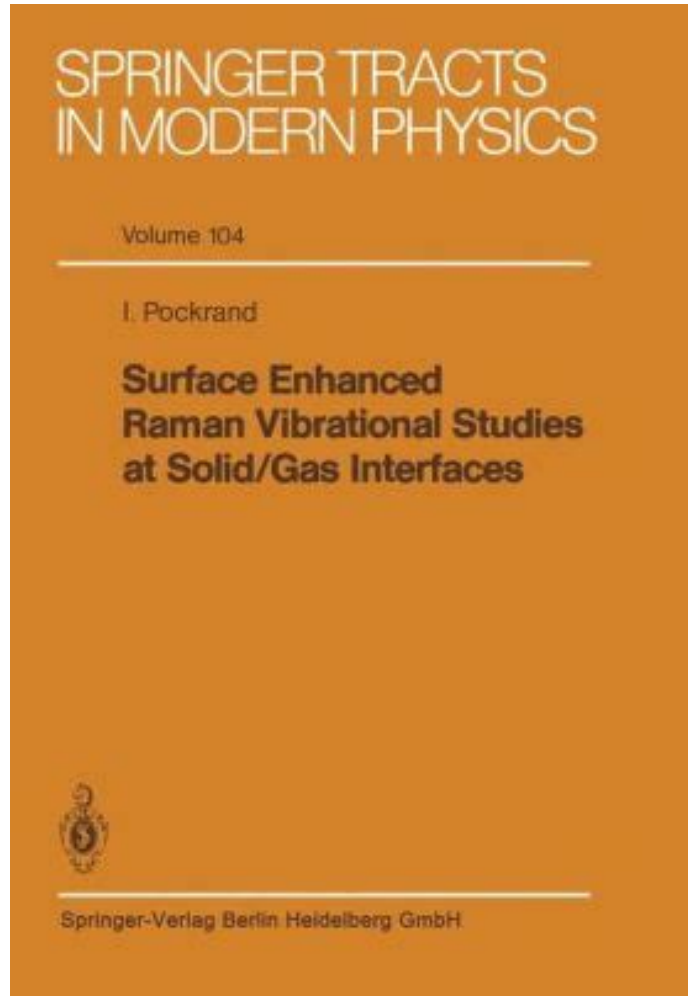


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1. Surface Enhanced Raman Vibrational Studies at Solid Gas

Surface Enhanced Raman Vibrational Studies at Solid Gas Interfaces ... **Surface Enhanced Raman Vibrational Studies at Solid Gas** Interfaces. Authors: Pockrand, I ... *immediately available upon purchase as print book shipments may be delayed due to the COVID-19 crisis. **ebook** access is temporary and does not include ownership of the **ebook**. ...

2. Surface Enhanced Raman Vibrational Studies at SolidGas

Surface Enhanced Raman Vibrational Studies at Solid/Gas Interfaces. Authors; ... volume 104) Log in to check access. Buy **eBook**. USD 84.99 Instant download; Readable on all devices; Own it forever; ... Front Matter. PDF. Introduction. Iven Pockrand. Pages 1-5. Fundamentals of **surface enhanced Raman** scattering. Iven Pockrand. Pages 6-18 ...

3. Surface Enhanced Raman Vibrational Studies at SolidGas

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4. Surface enhanced Raman vibrational studies at solid gas

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5. Selected applications and related surface enhanced

Pockrand I. (1984) Selected applications and related **surface enhanced** phenomena. In: **Surface Enhanced Raman Vibrational Studies at Solid/Gas** Interfaces. Springer Tracts in Modern Physics 104, vol 104.

6. Surface

1. Introduction. **Surface-enhanced Raman** scattering (SERS) has become one of the most sensitive techniques for molecular adsorption, single molecule detection, etc., since its discovery by Fleischmann et al. , , .Many molecules including chemical, biological and medical have been studied by this way.

7. Fundamentals of surface enhanced Raman scattering

Pockrand I. (1984) Fundamentals of **surface enhanced Raman** scattering. In: **Surface Enhanced Raman Vibrational Studies at Solid/Gas** Interfaces. Springer Tracts in Modern Physics 104, vol 104.

8. IOS Press Ebooks

Surface-enhanced Raman scattering (SERS) is a specific technique of **Raman** spectroscopy when signal enhancement of several orders is achieved for numerous molecules placed in the closest vicinity of certain rough metal **surfaces**.

9. Theoretical study of normal Raman spectra and SERS of

In previous **studies**, the observed **surface-enhanced Raman** spectroscopy signals were proposed from benzyl species due to the electrochemical reduction of benzyl chloride on silver electrode **surfaces**. In this work, we reinvestigated the **vibrational** assignments of benzyl chloride and benzyl radical as the reaction intermediate.

10. Vibrational Spectroscopy at Electrified Interfaces Wiley

Vibrational Spectroscopy at Electrified Interfaces explores new and emerging applications of **Raman**, infrared, and non-linear optical spectroscopy for the study of charged interfaces. The book draws from hundreds of findings reported in the literature over the past decade.

11. Carbon monoxide exposure and carbonaceous deposits

Surface Enhanced Raman Vibrational Studies at Solid/Gas Interfaces. **Surface Enhanced Raman Vibrational Studies at Solid/Gas** Interfaces pp 89-98 ... Carbon monoxide exposure and carbonaceous deposits. In: **Surface Enhanced Raman Vibrational Studies at Solid/Gas** Interfaces. Springer Tracts in Modern Physics 104, vol 104. Springer, Berlin ...

12. Hydrocarbon adsorption SpringerLink

Cite this chapter as: Pockrand I. (1984) Hydrocarbon adsorption. In: **Surface Enhanced Raman Vibrational Studies at Solid/Gas** Interfaces. Springer Tracts in Modern Physics 104, vol 104.

13. Raman Surface Vibration Modes in Nanocrystalline SnO₂

Raman surface vibration modes have been measured for SnO₂ nanocrystalline powders with grain sizes of 3–36 nm and a specific **surface** area up to 180 m²g⁻¹, which were prepared by four different routes of chemical synthesis.

14. Surface

In this work, **surface-enhanced Raman** spectroscopy is applied for the investigation of the photocatalytic degradation processes of JG dye. A detailed resonance **Raman vibrational** study of JG was carried out, and a correlation between its characteristic **Raman** bands with chromophoric moieties of the molecule was obtained.

15. Core

Surface-enhanced Raman spectroscopy (SERS) can provide rich structural information with ultrahigh **surface** sensitivity, even down to the single-molecule level, which makes it a promising tool for the in situ study of catalysis. However, only a few metals (like Au, Ag, and Cu) with particular nanostructures can generate strong SERS effects.

16. In situ surface enhanced Raman spectroscopy detection in

Abstract In situ **surface enhanced Raman** scattering (SERS) in solution was tested in this study at ambient temperature and high pressure (up to 978 MPa) in a diamond-anvil cell, with the intent of resolving trace detection in high pressure conditions. The 4-chlorothiophenol solution was used as the analyte in our experiments.

17. Voltage tuning of vibrational mode energies in single

Surface-enhanced Raman spectroscopy (SERS) (17, 18), in which **surface** plasmons enhance the **Raman** scattering rate for molecules, opens up the possibility of performing detailed **vibrational studies at** the single-molecule level.

18. Surface enhanced Raman scattering

Springer, Berlin, in press. "H Metiu, Progress in **Surface** Science. In press. 'R K Chang and B L Laube, SERS and nonlinear optical applied to electrochemistry, CRC critical Reviews, **Solid State Mater Sci**, in press. " 6 I Pockrand, **Surface enhanced Raman vibrational studies at solid/gas** interfaces, submitted to Springer Series in Chemical Physics.

19. Time

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20. SurfaceEnhanced Raman Spectroscopy for the Chemical

Surface-Enhanced Raman Spectroscopy for the Chemical Analysis of Food Jinkai Zheng and Lili He Abstract: **Surface-enhanced Raman** spectroscopy (SERS) is an emerging and promising technique for the chemical analysis of food. The use of metallic nanosubstrates improves the sensitivity and capacity of conventional **Raman** spectroscopy greatly.

21. Vibrational studies of molecular organization in

Molecular organization in the thin films of chloroaluminium hexadecafluorophthalocyanine revealed by polarized **Raman** spectroscopy. *Thin Solid Films* 2013, 548, 650-656 ... Polarization Dependence of **Surface Enhanced Raman** Scattering on a Single Dielectric Nanowire. ... Zinc phthalocyanine thin film and chemical analyte interaction **studies** by ...

22. Vibrational characterization of E102 food additive by

Vibrational characterization of E102 food additive by **Raman** and **surface-enhanced Raman** spectroscopy and theoretical **studies** N. Peica Institut für Physikalische Chemie, Universität Würzburg, Am Hubland, D-97074 Würzburg, Germany

23. Surface

Surface Enhanced Vibrational Spectroscopy (SEVS) has reached maturity as an analytical technique, but until now there has been no single work that describes the theory and experiments of SEVS. This book combines the two important techniques of **surface-enhanced Raman** scattering (SERS) and **surface-enhanced** infrared (SEIR) into one text that serves as the definitive resource on SEVS.

24. Surface

major **vibrational** modes of 2-MPy adsorbed on nanostars were detectable without addition of NaCl, an increase in the **enhanced Raman** signal was observed at an optimum concentration of NaCl (ca 50 mM in SERS sample). The aggregation process was evident by a change in the colloidal solution color (turning pale) with the addition of NaCl.

25. Molecular and Laser Spectroscopy ScienceDirect

Abstract. **Solid** para-hydrogen ($p\text{-H}_2$) has emerged as a novel low-temperature matrix host with unique characteristics associated with a quantum **solid**. In this

chapter, we introduce p-H 2 matrix-isolation spectroscopy, presenting instrumentation and methods, the properties of **solid** p-H 2, and varied spectral applications. For stable molecules, infrared spectra of methane at high resolution ...

26. Raman Vibrational Studies of Syndiotactic Polystyrene 1

A detailed analysis of the **Raman** spectrum of syndiotactic polystyrene, sPS, in the region $600\hat{\wedge}850\text{ cm}^{-1}$ has been undertaken. As sPS exhibits considerable polymorphism, spectra of various preparations including melt-crystallized sPS ($\hat{I}\pm/\hat{I}^2$ form), solvent-crystallized sPS (\hat{I}^3/\hat{I}^1 forms), and quenched glassy material were studied. The $\hat{I}^{1/2}$ vibration of the phenyl ring (ring breathing mode) has ...

27. Theoretical Study of Binding Interactions and Vibrational

Binding interactions and **Raman** spectra of water in hydrogen-bonded anionic complexes have been studied by using the hybrid density functional theory method (B3LYP) and ab initio (MP2) method. In order to explore the influence of hydrogen bond interactions and the anionic effect on the **Raman** intensities of water, model complexes, such as the negatively charged water clusters $((\text{H}_2\text{O})_n^-)$, $n = 2$ and ...

28. Vibrational Spectroscopy Of Molecules On Surfaces Methods

TEXT ID e85627ac Online PDF Ebook Epub Library **Vibrational** Spectroscopy Of Molecules On **Surfaces** Methods Of **Surface** ... species generated by **surface** reactions in principle any technique that can be used to obtain **vibrational** data from **solid** state or **gas** phase samples in **raman** etc can be ... **surface enhanced raman** spectroscopy 54 123 electron ...

29. Surface Plasmon Enhanced Chemical Reactions on Metal

Noble metal nanomaterials as plasmonic photocatalysts can strongly absorb visible light and generate localized **surface** plasmon resonance (SPR), which in turn depends on the size, shape, and surrounding of the plasmonic metal nanomaterials (PMNMs). Remarkably, the high-efficiency conversion of solar energy into chemical energy was expected to be achieved by PMNMs.

30. OSA Asymmetric split H

In this paper we report on a very sensitive biosensor based on gold asymmetric nanoantennas that are capable of enhancing the molecular resonances of C-H

bonds. The nanoantennas are arranged as arrays of asymmetric-split H-shape (ASH) structures, tuned to produce plasmonic resonances with reflectance double peaks within the mid-infrared **vibrational** resonances of C-H bonds for the assay of ...

31.

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