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Surface- & tip-enhanced Raman spectroscopy The techniques of surface-enhanced Raman spectroscopy (SERS) and tip-enhanced Raman spectroscopy specifically probe the nanoscale and, although tip ...

## Raman Spectroscopy in Nanomedicine

Combined SERS – Paramagnetic Capture Assay for DNA Diagnostics is a new Raman enhancement technique. The enhanced signal is from the magnetically concentrated combination product that consists of an ...

## Combined SERS (surface enhanced Raman spectroscopy) Paramagnetic Capture Assay for DNA Diagnostics

See allHide authors and affiliations As a novel and efficient surface analysis technique, graphene-enhanced Raman scattering (GERS ... can be controlled and identified by Raman spectroscopy and ...

## Ultrasensitive molecular sensor using N-doped graphene through enhanced Raman scattering

Free-surface Microfluidic Control of Surface-Enhanced Raman Spectroscopy, Molecularly Imprinted Polymers, Cantilever Nano Mechanical Sensors, Sensor Array and Neural Network, Temperature-Stepped ...

## Explosives Trace Detection Market Share, Trend, Opportunity, Affect On Demand By COVID-19 Pandemic And Forecast 2021-2030

Raman spectroscopy is a scattering phenomenon that can differentiate the spectral fingerprint of many molecules simultaneously (high multiplexing capability). Because the Raman effect is normally ...

## RAMAN SPECTROSCOPY: Raman technique improves imaging 1000 times

Prof. HUANG Qing ' s group from the Institute of Intelligent Machines, Hefei Institutes of Physical Science (HFIPS) developed a surface-enhanced Raman spectroscopy (SERS) gas sensor to detect aldehyde ...

## Aldehyde Gas Detection Aided by Novel SERS Sensor

surface enhanced Raman spectroscopy surfaces that provide various orders of magnitude amplification in independent tests; and custom spectrometers. The Company offers its products for security ...

## SERT.ST – Serstech AB Profile | Reuters

3 Surface Chemistry and Nanomaterials Laboratory ... substrates using powder precursors (see Materials and Methods for details). Optical microscopy, Raman spectroscopy, and PL spectroscopy were ...

## Spontaneous chemical functionalization via coordination of Au single atoms on monolayer MoS

Now, researchers at Argonne National Laboratory have demonstrated the use of Raman spectroscopy ... the surface of the graphite electrode, ” said Abraham. The presence of lithium metal also enhances ...

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## ~~Fast Charging Requires Care~~

Using a technique called “ surface enhanced raman spectroscopy ” (it ’ s an actual thing) the world-weary medical examiner is able to establish who strangled her but then... all that turns out ...

## ~~Law & Order: Special Victims Unit~~

developed the handheld Surface Enhanced Raman Spectroscopy (SERS) based platform. The research was published in the journal, Analytical Chemistry. The IIT Delhi team, in collaboration with ICMR ...

## ~~IIT Delhi Develops Device For Early, Rapid Diagnosis Of Dengue~~

were produced with a method that used electric-field-enhanced growth ... Within the surface region on the compressive side of a highly bent fiber, the stress reached  $\sim 0.4$  GPa. Through the use of Raman ...

## ~~A flexible and springy form of ice~~

The group are also developing the approach of surface enhanced spatially offset Raman spectroscopy (SESORS) for the detection of disease changes at depth with a view to carrying out measurements at ...

## ~~Winner: 2021 Analytical Division mid-career Award~~

Prof. Huang Qing's group from the Hefei Institutes of Physical Science (HFIPS) developed a surface-enhanced Raman spectroscopy (SERS) gas sensor to detect aldehyde with high sensitivity and ...

## ~~News tagged with organic framework~~

Prof. Huang Qing's group from the Hefei Institutes of Physical Science (HFIPS) developed a surface-enhanced Raman spectroscopy (SERS) gas sensor to detect aldehyde with high sensitivity and ...

## ~~News tagged with material composition~~

surface-enhanced Raman scattering and tip-enhanced Raman spectroscopy overcome the traditional challenge of weak Raman signals, and enable rapid analysis times. Combining microfluidic technology ...