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Raman spectroscopy (/ ˈɛɪˈr ɛɪˈm ɛɪˈm /; named after Indian physicist Sir C. V. Raman) is a spectroscopic technique used to observe vibrational, rotational, and other low-frequency modes in a system. Raman spectroscopy is commonly used in chemistry to provide a structural fingerprint by which molecules can be identified.

Raman spectroscopy - Wikipedia

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 ...

Surface-enhanced Raman spectroscopy - Wikipedia

1. Introduction. Spectroscopy is the study of interaction of electromagnetic radiation with matter. Spectroscopic methods can be based on phenomena of emission, absorption, fluorescence or scattering.^{1, 3} Different spectroscopic methods are frequently used for the characterization of a wide range of samples of forensic interest.

Raman spectroscopy â€“ Basic principle, instrumentation and

La spettroscopia Raman o spettroscopia di scattering Raman Ã” una tecnica di analisi dei materiali basata sul fenomeno di diffusione di una radiazione elettromagnetica monocromatica da parte del campione analizzato.

Spettroscopia Raman - Wikipedia

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Chapter List. SECTIONS. 0. OVERVIEW PAPERS and FOUNDATIONS. 1. The UNIFIED FIELD. Newton, Lagrange, Coulomb and Maxwell all gave us UFT's.

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where $\hat{\mu}$ is a strain and \ddot{f} is a stress at a specific time. 2.2.2. Moisture loss/uptake and residual water of capsule shells. The residual moisture content of the HPMC capsule shells was determined using Karl-Fischer Titration (Titroline 7500 KF, SI Analytics, Mainz, Germany) at room temperature.

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Vol.7, No.3, May, 2004. Mathematical and Natural Sciences. Study on Bilinear Scheme and Application to Three-dimensional Convective Equation (Itaru Hataue and Yosuke Matsuda)

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1, 1-trichloroethane; trichloroethate 1/f, one over "f" noise where "f" is frequency 1D, one dimensional 1T-1C, 1 transistor/1 capacitor 1T-2C, 1 transistor/2 capacitor

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Professor JosÃ© Antonio Carrillo Imperial College London (United Kingdom) Born in Granada, Spain, in 1969. He obtained a Ph. D. degree in Mathematics at Universidad de Granada in 1996 and he held assistant and associate professor positions there during 1992-1998 and 2000-2003.

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