

laser spectroscopy proceedings of pdf

Raman spectroscopy (/ ɛˈr ɛːm ɛˈtɪn /; 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. It relies on inelastic scattering, or Raman scattering, of monochromatic ...

Raman spectroscopy - Wikipedia

An ion laser is a gas laser that uses an ionized gas as its lasing medium. Like other gas lasers, ion lasers feature a sealed cavity containing the laser medium and mirrors forming a Fabry-Pérot resonator. Unlike helium-neon lasers, the energy level transitions that contribute to laser action come from ions. Because of the large amount of energy required to excite the ionic transitions ...

Ion laser - Wikipedia

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Intracellular uptake, distribution and metabolism of lipids are tightly regulated characteristics in healthy cells. An analytical technique capable of understanding these characteristics with a high level of species specificity in a minimally invasive manner is highly desirable in order to understand better how these become disrupted during disease.

Tracking intracellular uptake and localisation of alkyne

Process analytical technologies (PAT) for the manufacturing of biologics have drawn increased interest in the last decade. Besides being encouraged by the Food and Drug Administration's (FDA's) PAT initiative, PAT promises to improve process understanding, reduce overall production costs and help to implement continuous manufacturing.

Advances in downstream processing of biologics

1. Introduction and Historical Overview. Near Infrared Spectroscopy (NIR) is a type of vibrational spectroscopy that employs photon energy ($h\nu$) in the energy range of 2.65×10^{-19} to 7.96×10^{-20} J, which corresponds to the wavelength range of 750 to 2,500 nm (wavenumbers: 13,300 to 4,000 cm^{-1}). This energy range is higher than necessary to promote molecules only to their lowest excited ...

Near Infrared Spectroscopy: fundamentals, practical

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Massenspektrometrie bezeichnet ein Verfahren zum Messen der Masse von Atomen oder Molekülen.. Die zu untersuchenden Moleküle werden dabei in die Gasphase überführt (Desorption) und ionisiert. Die Ionen werden anschließend durch ein elektrisches Feld beschleunigt und dem Analysator zugeführt, der sie nach ihrem Masse-zu-Ladung-Verhältnis m/z (auch m/q) â€žsortiertâ€œ, beispielsweise ...

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