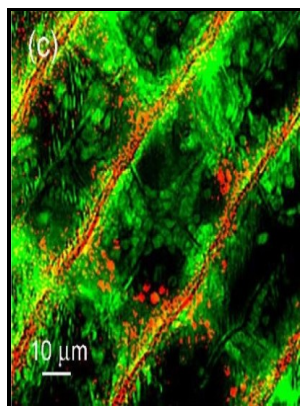


Laser spectroscopy - techniques and applications

Dekker - Applications of laser spectroscopy in forensic science



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Laser spectroscopy

In addition, it explains the selectivity, sensitivity, and stability of the measurements, the construction of databases, and the automation of data analysis by machine learning. There are continuous-wave, pulsed and mode-locked versions.

RP Photonics Encyclopedia

This isomer is formed exclusively via the first excited singlet of the methyl-derivative. For the combination of collinear fast beam laser spectroscopy with resonance ionization detection, the excitation into high-lying Rydberg states with subsequent field ionization is best suited because of the effective suppression of background.

Applications of laser spectroscopy in forensic science

The lifetime of fluorescence emission depends on the balance between radiative and nonradiative transitions as well as energy transfer to quencher molecules.

Laser Spectroscopy for Sensing

This list of laser sources is not complete; even exotic types of lasers and nonlinear sources are sometimes used to meet certain requirements for spectroscopic applications.

Laser Spectroscopy

The dispersive element within the spectrometer splits the light up into its color components.

Laser Spectroscopy: Techniques and Applications

More or less sophisticated schemes for low-noise operation and for the are therefore often employed.

The availability of such lasers permits many new applications in the study of transient chemical phenomena. The increasing desire to detect and monitor in real-time different fields such as environmental air, life science, medical diagnostics and planetary exploration demands the development of innovative sensing systems.

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