Austrian Three-Dimensional Fluorescence Spectrometer

Overview

Research output: Conference proceeding/Chapter in Book › Conference Paper › peer-reviewResearch output: Conference proceeding/Chapter in Book › Conference Paper › peer-reviewThree-dimensional fluorescence lifetime microscopy is achieved by combining wide-field fluorescence lifetime imaging with a remote optical refocusing method. As required for some applications in dynamic research for physics, chemistry, or biology, it is thereby not necessary to move the sample. Fluorescence data generate a spectral finger-print that can characterise samples within a very large space of variability, such as that which is inherent in food samples. In modern agriculture, where agricultural information is fully perceived, it is.

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We introduced three-dimensional (3D) fluorescence-detected coherent spectroscopy and demonstrated the potential of the technique on a dianionic molecule in solution.

Accurate determination of oil pollutants in water by using three-dimensional fluorescence spectroscopy technology can provide a basis for crop irrigation and is of great significance for improving ...

In this paper, we designed a compact three-dimensional fluorescence spectrometer system that consists of two multi-wavelength excitation light generation units, a highly sensitive ...

This article focuses on 3D fluorescence spectroscopy, also known as emission–excitation fluorescence spectroscopy. Thus, after defining its principle, we shall be focusing on the usefulness of this type of ...

In summary, this study combines machine learning and three-dimensional EEM fluorescent spectroscopy to propose a framework for contamination detection and component analysis.

On the purported “backbone fluorescence” in protein three-dimensional fluorescence spectra, A fast and effective method of quantitative analysis of VB 1, VB 2 and VB 6 in B-vitamins complex tablets ...

Three-dimensional fluorescence imaging with an automated light-field microscope

Here we develop a fast fluorescent identification network (FFI-Net) model based on the deep learning approach to fast predict the numbers and maps of fluorescent components by simply ...

Using a fluorescent microsphere the performance of the system has been tested successfully with respect to three-dimensional fluorescence lifetime microscopy as well as time-resolved fluorescence ...

Fluorescence excitation-emission matrix (EEM) spectroscopy, also known as three-dimensional fluorescence (3D-EEM) or fluorescence fingerprinting, is one of the most predominant ...

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