

Austrian Three-Dimensional Fluorescence Spectrometer



Overview

Research output: Conference proceeding/Chapter in Book > Conference Paper > peer-review
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Three-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 fingerprint 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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For more information, pricing, or custom network solutions, please contact us:

Website: <https://hashherbcafe.co.za>

Email: hello@hashherbcafe.co.za

Phone: +27 63 814 7295

Address: 15 Galaxy Road, Linbro Business Park, Johannesburg, 2065, South Africa

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