

confocal raman microscopy pdf

1.6.3 Confocal Raman Microscope The image formation of a confocal Raman microscope is strongly different from the case in Sect. 1.6.2. This is due to the nature of Raman scattering. The Raman scattering is proportional to the excitation intensity $|h_1|^2$ and the Raman generation $f(x, y, z)$.

Confocal Raman Microscopy - PDF Free Download

Confocal Raman microscopy is a powerful tool for analyzing of the chemical composition of hetero-geneous samples on the sub-micro-meter scale. In this application note it is demonstrated that the distribution of various chemical compounds in a banana, instant gravy thickener, emulsi-

Food Analysis with Confocal Raman Microscopy

The book includes expanded background information and adds insights into how confocal Raman microscopy, especially 3D Raman imaging, can be integrated with other methods to produce a variety of correlative microscopy combinations.

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Confocal Raman Microscopy is a relatively new technique that allows chemical imaging without specific sample preparation. By integrating a sensitive Raman spectrometer within a state-of-the-art microscope, Raman microscopy with a spatial resolution down to 200nm laterally and 500nm vertically can be achieved using visible light excitation.

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Confocal Raman Imaging and Correlative Techniques in Life Science. ... Confocal Raman microscopy can be coupled with correlative microscop-y techniques such as fluorescence microscopy, electron microscopy and ... Confocal Raman Imaging in Life Science - Living Cells, Plants, Bacteria & Tissues.

Confocal Raman Imaging and Correlative Techniques in Life

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Raman Spectroscopy and Confocal Raman Imaging

Confocal Raman microscopy is a nondestructive analytical technique that combines the chemical information from vibrational spectroscopy with the spatial resolution of confocal microscopy. It was applied, for the first time, to measure conformation and distribution of protein adsorbed in wetted chromatographic particles.

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