

raman imaging techniques and pdf

In this work, we integrated point-scanning, line-scanning, and wide-field Raman imaging techniques into a single system.

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Confocal Raman Microscopy: Instrumentation, Resolution, Configurations and Correlative Techniques Olaf Hollricher WITec GmbH, Ulm, Germany, www.witec.de Confocal Raman microscopy is an indispensable tool for the analysis of chemical species and their spatial distribution either on surfaces or in small 3D volumes.

3D Raman

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Raman imaging has long been used to probe the chemical nature of a sample, providing information on molecular orientation, symmetry and structure with sub-micron spatial resolution.

Raman Imaging - Techniques and Applications | Arnaud

Raman imaging is a powerful technique for generating detailed chemical images based on a sample's Raman spectrum. A complete spectrum is acquired at each and every pixel of the image, and then interrogated to generate false colour images based on material composition, phase, crystallinity and strain.

Raman Imaging - HORIBA

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Microplastic Identification and Characterization by Raman

Like traditional chemical imaging techniques that use IR wavelengths, Raman spectra can also be used to rapidly identify unknown compounds. When coupled with high-powered microscopy, Raman imaging can be a cost-effective drug development tool for evaluating the properties of drug compounds when carrying out in vitro cell-based assays (3) The principles of Raman spectroscopy are shown in Figure 2.

Manufacturing Benefits of Hyperspectral and Raman Imaging

"RAMAN MICROSCOPY AND IMAGING" Nano-Raman Spectroscopy and Imaging with the Near-field Scanning Optical Microscope 1 C.L. Jahncke, H.D. Hallen, and *M.A. Paesler Physics Department, North

Carolina State University Raleigh, NC 27695-8202 Abstract We have performed Raman spectroscopy using a near-field scanning optical microscope.

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