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Why are the Raman Spectra of Crystalline and Amorphous Solids Different?**Infrared And Raman Spectroscopic Imaging**

A comparison of the strengths and weaknesses of near-infrared, infrared and Raman imaging, focusing on current as well as conceivable applications for chemical analysis in delicate natural and synthetic samples. This handbook and ready reference covers instrumentation for vibrational spectroscopic imaging, chemometric evaluation of spectroscopic images, and vibrational spectroscopic imaging in biology

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New Book: Infrared and Raman Spectroscopic Imaging. This second edition of the must-have reference is updated and revised with approximately 30% new content to reflect the numerous instrumental developments and improvements, as well as the significant expansion of this rapidly developing field. With many valuable practical tips. Salzer, Reiner / Siesler, Heinz W. (eds.)

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Abstract. The advent of nanotechnology, and the need to understand the chemical composition at the nanoscale, has stimulated the convergence of IR and Raman spectroscopy with scanning probe methods, resulting in new nanospectroscopy paradigms. Here we review two such methods, namely photothermal induced resonance (PTIR), also known as AFM-IR and tip-enhanced Raman spectroscopy (TERS).

Infrared and Raman chemical imaging and spectroscopy at ...

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Simultaneous Optical Photothermal Infrared (O-PTIR) and Raman Spectroscopy of Submicrometer Atmospheric Particles. https://doi.org/10.1021/acs.analchem.0c01495 Cai Li Song, Sergei G. Kazarian. Effect of Controlled Humidity and Tissue Hydration on Colon Cancer Diagnostic via FTIR Spectroscopic Imaging.

Infrared Spectroscopic Imaging Advances as an Analytical ...

Infrared and Raman Spectroscopic Imaging: Siesler, Heinz W., Siesler, Heinz W.: 9783527319930: Amazon.com: Books.

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The IRUG (Infrared and Raman Users Group) Spectral Database is a rigorously peer-reviewed online database of IR and Raman reference spectra for cultural heritage materials such as works of art, architecture, and archaeological artifacts. The database is open for the general public to peruse, and includes interactive spectra for over a hundred different types of pigments and paints.

Raman spectroscopy - Wikipedia

Raman spectroscopy is a complementary technique to infra-red spectroscopy since a lower frequency range of the same radiation as infra-red is selected as the data source during the measurements. Raman spectroscopy is particularly sensitive to the surface complexes forming during the adsorption of organic molecules on metal surfaces [95].

Raman Spectroscopy - an overview | ScienceDirect Topics

Infrared and Raman Spectroscopic Imaging eBook: Salzer, Reiner, Siesler, Heinz W.: Amazon.co.uk: Kindle Store

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Abstract Established methods for imaging of biological or biomimetic samples, such as fluorescence and optical microscopy, magnetic resonance imaging (MRI), X-ray tomography or positron emission tomography (PET) are currently complemented by infrared (both near-IR and mid-IR) as well as Raman spectroscopic imaging, whether it be on a microscopic or macroscopic scale.