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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).

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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.