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When light (or a photon) interacts with a molecule, it can either be elastically or inelastically scattered. In the first case, the absorbed photon has the same wavelength with the emitted one (Rayleigh scattering), but in the second case, the photon has lost or

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gained an amount of energy related to the vibrational energy spacing in the molecule.

The Difference between Raman and Infra-red Spectroscopy ...
In IR spectroscopy, the image of the IR source through a sample is

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Projected onto a detector, whereas in Raman spectroscopy, it is the focused laser beam in the sample that is imaged. Historically, IR and Raman spectra were measured with a dispersive instrument.

Infrared and Raman Spectroscopy

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Infrared (IR) and Raman spectroscopies provide information on molecular vibrations. Both vibrational techniques involve changes in vibrational energy levels through interactions of the molecular chromophore with

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electromagnetic radiation. IR and Raman spectroscopy differ in the process by which the photon energy is transferred to the molecule.

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Raman and mid-IR spectroscopy are complementary techniques and usually both are required to completely measure the vibrational modes of a molecule. Although some vibrations may be active in both Raman and IR, these two forms of spectroscopy arise from

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different processes and different selection rules. In general, Raman spectroscopy is best at

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providing characteristic fundamental vibrations that are extensively used to determine and identify molecular structure, he says, but are not widely used because potential users lack the necessary interpretation skills. It is that lacuna that he seeks to fill.

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In contrast to IR spectroscopy a change of the polarization potential, i.e., deformation of the electron cloud, is necessary for a molecule to exhibit a Raman effect.

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The intensity of the scattered light is dependent on the amount of the polarization potential change.

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Raman spectroscopy depends on a change in polarizability of a molecule, whereas IR spectroscopy depends on a change

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Introduction to Infrared and Raman

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final chapter demonstrates how the frequencies and forms of a nonlinear molecule's normal modes of vibration may be calculated mathematically. This monograph will be a useful resource for spectroscopists and physical scientists.

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