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In IR spectroscopy, the image of the IR source through a sample is projected onto a detector, whereas in Raman spectroscopy, it is the

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focused laser beam in the sample that is imaged.

Historically, IR and Raman spectra were measured with a dispersive instrument.

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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

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both Raman and IR, these two forms of spectroscopy arise from different processes and different selection rules.

In general, Raman spectroscopy is best at

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Infrared and Raman spectroscopy are completely complementary, providing characteristic fundamental vibrations that are extensively used to

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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

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molecules can be identified. As the name suggests, this phenomenon is named after Sir C. V. Raman.

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