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[Infrared And Raman Characteristic Group](#)

G.J. PUPPELS, in *Fluorescent and Luminescent Probes for Biological Activity (Second Edition)*, 1999 29.2.4 Raman spectroscopy of single cells. Raman spectroscopy can provide a wealth of information and

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microspectrometers have, in principle, a diffraction-limited spatial resolution. Nevertheless, for a long time the technique was little used for studies at the level of a single cell.

[Raman Spectroscopy - an overview | ScienceDirect Topics](#)

INFRARED REGIONS RANGE Near infrared region 0.8-2.5 μ (12,500-4000 cm^{-1}) Main infrared region 2.5-15 μ (4000-667 cm^{-1}) Far infrared region 15-200 μ (667-100 cm^{-1}) 6. When infrared 'light' or radiation hits a molecule, the bonds in the molecule absorb the energy of the infrared and respond by vibrating.

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[Infrared spectroscopy - SlideShare](#)

(IR, Raman) Vibrational spectroscopy Vibrational spectroscopy is an energy sensitive method. It is based on periodic changes of dipolmoments (IR) or polarizabilities (Raman) caused by molecular vibrations of molecules or groups of atoms and the combined discrete energy transitions and changes of frequen-cies during absorption (IR) or scattering ...

[Vibrational spectroscopy Vibrational Spectroscopy \(IR, Raman\)](#)

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Basically, the IR spectrum obtained from FTIR spectrometer lies in the mid-IR region $2.5\text{--}15\ \mu\text{m}$ between 4000 and $666\ \text{cm}^{-1}$. Transition energies corresponding to changes in vibrational energy state for many functional groups are located in the mid-IR region ($4000\text{--}400\ \text{cm}^{-1}$) and hence the appearance of an absorption band in this region can be used to determine whether specific functional ...

[Fourier Transform Infrared \(FTIR\) Spectroscopy - ScienceDirect](#)

Physics. Photon upconversion belongs to a larger class of processes by which light incident on a material

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induces anti-Stokes emission. Multiple quanta of energy such as photons or phonons are absorbed, and a single photon with the summed energy is emitted. It is important to make the distinction between photon upconversion, where real metastable excited states allow for sequential absorption ...

[Upconverting nanoparticles - Wikipedia](#)

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