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**Fourier Transform
Raman Spectroscopy
Of**

Near-infrared Fourier

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spectroscopy (NIR FT-

Raman) was

demonstrated in a

seminal article

appearing in 1986, (24)

the concept evolved to

incorporate the

reduction of

fluorescence inherent

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to NIR excitation and the signal-averaging and throughput advantages of the optical interferometer. A Nd:YAG laser provides the NIR excitation, a quartz or other NIR beamsplitter is used in the interferometer and a NIR detector (usually, Indium Gallium Arsenide - InGaAs or Germanium - Ge) is ...

Fourier Transform

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Spectroscopy

- an overview ...

Fourier-transform
spectroscopy is a

measurement

technique whereby

spectra are collected

based on

measurements of the

coherence of a

radiative source, using

time-domain or space-

domain measurements

of the electromagnetic

radiation or other type

of radiation. It can be

applied to a variety of

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types of spectroscopy

including optical

spectroscopy, infrared

spectroscopy, nuclear

magnetic resonance

and magnetic

resonance

spectroscopic imaging,

mass spectrometry and

electron spin

resonance

spectroscopy

Fourier-transform spectroscopy - Wikipedia

Fourier-transform (FT)

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Raman spectroscopy was used to characterize the organic and mineral components of biological and synthetic calcium phosphate minerals. Raman spectroscopy provides information on biological minerals that is complimentary to more widely used infrared methodologies as some infrared-inactive vibrational modes are Raman-

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active.

Spectroscopy Of

**Fourier transform
Raman spectroscopy
of synthetic and ...**

Fourier Transform

Raman Spectroscopy of
Photoactive Proteins

with Near-Infrared

Excitation. Applied

Spectroscopy 1990 , 44

(7) , 1103-1106. DOI: 1

0.1366/000370290408

6434.

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Raman Spectroscopy

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| **Analytical**

Chemistry

Fourier Transform

Infrared Spectroscopy

(FTIR) is a vibrational

technique that

measures the

absorbance,

transmittance, and

reflectance of infrared

radiation resulting from

its interaction with the

gem.

Advantages and

Disadvantages of

Raman & Fourier

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Fluorescence and initiation of photoreactions are problems frequently encountered with resonance Raman spectroscopy of photobiological systems. These problems can be circumvented with Fourier-transform Raman spectroscopy by using the 1064-nm wavelength of a continuous wave neody

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mium-yttrium/aluminu
m-garnet laser as the
probing beam.

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Fourier-transform Raman spectroscopy applied to ...

Fourier transform
infrared (FTIR)
spectroscopy and
Raman spectroscopy
are chemical analytical
methods that have also
been used to collect
information about
whole bacterial cells
(14). The outputs from

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these methods are FTIR and Raman spectra that contain signals from the organic functional groups in the sample.

Fourier Transform Infrared and Raman Spectroscopy for ...

While FT-IR spectroscopy is sensitive to functional groups of these polysaccharides, i.e. hydroxyls, carboxyls, esters and amides, FT-

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Raman spectroscopy, is better at analysis complex skeletal vibrations of polysaccharide chains, i.e. glycosidic bonds and pyranoid rings.

Fourier transform Raman and infrared spectroscopy of ...

Fourier transform Raman spectrometers were developed as late as in 1986 due to the reasons discussed herein. [6,7] It is

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known that shot noise dominates the noise of visible detectors, i.e. for an...

(PDF) A Fourier transform Raman spectrometer with visible ...

Fourier-transform infrared spectroscopy (FTIR) is a technique used to obtain an infrared spectrum of absorption or emission of a solid, liquid or gas. An FTIR spectrometer

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simultaneously collects high-spectral-resolution data over a wide spectral range. This confers a significant advantage over a dispersive spectrometer, which measures intensity over a narrow range of wavelengths at a time.

**Fourier-transform
infrared
spectroscopy -
Wikipedia**

We compared the two

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most promising techniques for MP analysis, namely, Raman and Fourier transform infrared (FTIR) spectroscopy, by analyzing MPs extracted from North Sea surface waters. Microplastics $>500\ \mu\text{m}$ were visually sorted and manually analyzed by μ -Raman and attenuated total reflection (ATR)-FTIR spectroscopy.

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Comparison of Raman and Fourier Transform Infrared

...

Fourier transform
Raman spectroscopy is
used to probe these
chemical changes
under a range of
experimental
conditions. Monomer
consumption and
polymer formation
curves are constructed
by cross-correlating
relative Raman peak
intensities for spectra

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acquired on individual gel samples which have each been irradiated to known doses.

Fourier transform Raman spectroscopy of polyacrylamide ...

Abstract Detailed

Fourier transform

Raman spectra of

fluconazole have been

recorded and the main

spectral features of

fluconazole have been

assigned to its

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vibrational modes. Two different polymorphic forms of fluconazole were identified in two spectral regions, 150–1700 cm^{-1} and 2700–3200 cm^{-1} , respectively.

Characterization of polymorphic forms of fluconazole using

...

In the present work, safflower red was analyzed by Fourier transform (FT)-Raman

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and surface-enhanced Raman scattering (SERS) spectroscopies and the band assignment was carried out with the support of density functional theory calculations. Different pH values were tested in order to determine the optimal conditions for SERS analysis.

**Fourier
transform-Raman
and**

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surface-enhanced

Raman ...

Raman spectroscopy was used to study the effects of heat and light treatments on unbleached and peroxide-bleached mechanical and chemimechanical pulps. For bleached mechanical pulp, spectral...

(PDF) Non-

destructive

Determination of

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Wood Constituents

... Spectroscopy Of

The spectra were registered using

Infrared Fourier

Transform

Spectrometers in the laboratory of the All-

Russia Institute of

Forensic Sciences. The

IR and Raman spectra

are presented together

on the same sheet.

Handbook of Fourier

Transform Raman

and Infrared Spectra

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The spectral resolution of broadband Fourier-transform coherent anti-Stokes Raman spectroscopy is limited by the maximum optical path length difference that can be scanned within a short time in an interferometer. However, alternatives to the Fourier transform exist which can bypass this limitation with certain

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assumptions.

**OSA | Enhanced
spectral resolution
for broadband
coherent ...**

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Overview of the results
to expect from the test
method Fourier
transform infrared
spectroscopy (...)

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