

# Low Temperature Raman Amplifier Test Report

The purpose of the cooling Jacket was to protect the Raman sample from the intense heat of the mercury lamps, but it could also function as a filter cell by circulating cooled filter solutions through it.

If multiple phonon temperatures are measured, Raman thermometry allows for exploration of which phonon groups are more relevant in excited ...

The low-temperature dependence of the Raman characteristic peaks of Si, SiC, single-crystal diamond and polycrystalline diamond has been measured by laser-excited Raman spectroscopy.

PDF | An experimental investigation of the temperature dependence of the gain and noise performance of a silica-fiber Raman amplifier is described.

In this Application Note, we demonstrate the power of TD Raman microscopy by investigating the temperature-induced phonon mode shifts in a ...

Therefore, the aim of this work is to estimate the relation between the Raman signal and the temperature for the sulfates gypsum, syngenite and  $\text{C}_2\text{S}$  at low temperatures.

maintenance of Raman Spectrometers (sample compartment and/or microscope). A Raman spectrometer can be used to analyze samples in larger quantities in the sample compartment, if ...

In this Application Note, we demonstrate the power of TD Raman microscopy by investigating the temperature-induced phonon mode shifts in a silicon (Si) chip with an Edinburgh ...

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va, Italy (Received 17 October 2023; revised 27 August 2024; accepted 7 October 2024; published 15 November 2024) Because of their sub picosecond temporal resolution, coherent Raman ...

Temperature-dependent (TD) Raman microscopy is a powerful and non-destructive method that can probe the thermal and electronic properties of semiconductor materials with sub-micron spatial ...



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