

In this review, we systematically introduce the fundamentals of in situ IR spectroscopy and SFG spectroscopy along with detection modes. Then, the specific applications of in situ IR ...

ReactRaman enables scientists to monitor reactions and crystallization processes in situ and in real time, providing highly specific information about reaction kinetics, mechanism, pathways, polymorph ...

Here we report an in situ computational spectrometer implemented on a fully integrated 576-Kb memristor chip.

In this review, recent developments for in situ protein analysis are explored, with a focus on ion sources and tandem mass spectrometry techniques used for identification.

In situ spectroscopy is vital for understanding electrochemical reactions by providing real-time insights into the electrode-electrolyte (E-E) interface.

A Bruker TENSOR 27 FTIR spectrometer equipped with an MCT detector with extralong hold time (24h) for the mid infrared region is used to perform in situ experiments on photocatalytic reactions such as ...

They are the best in terms of in-situ resolution and performance, but they are also complex and large. They require a little more care and feeding than some of their scintillator cousins.

An overview of the principles, sample requirements, and preparation methods for in situ infrared spectroscopy.

Harvard's DCOTSS Portable Optical Particle Spectrometer (DPOPS) is an in situ instrument capable of measuring particle number density as a function of size throughout the troposphere and lower ...

In situ Raman spectroscopy is an analytical technique that provides a "molecular-level video" of chemical reactions and physical processes. It allows scientists to observe changes in ...

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