

Function of Russian Spectrometer



Overview

IKFS-2 belongs to a class of hyper- spectral IR sounders, designed to measure the outgoing IR radiance spectra and to provide information on the thermodynamic parameters and the composition of the atmosphere such as vertical temperature and humidity profiles, estimates of the. IKFS-2 belongs to a class of hyper- spectral IR sounders, designed to measure the outgoing IR radiance spectra and to provide information on the thermodynamic parameters and the composition of the atmosphere such as vertical temperature and humidity profiles, estimates of the. The Skolkovo Institute of Science and Technology and the Moscow Institute of Physics and Technology have completed the development of a novel mass spectrometer for scientific research and other applications that require highly precise substance identification, as in the chemical industry. Based on. An optical spectrometer, like the Ossila USB spectrometer, is the most common type. They take light, separate it by wavelength and create a spectrum which shows the relative intensity of these separate wavelengths. Spectrometers have a wide range of applications and uses. 1007/s13361-019-02281-9 The Russian Mass Spectrometry Interest Group at ASMS: Over 20 Years of Science. The present review covers the main research in the area of mass spectrometry from the 1990s which was about the same time as the Russian Federation emerged from the collapse of the Soviet Union (USSR).

Article Content

How Does a Spectrometer Work? Principles Explained

Entrance Slit Diffraction Grating Or Prism Detector Routing Optics Higher Order Filters The optical detector records the intensity of the light that reaches it as a function of its wavelength. Spectrometer detectors consist of a row of light sensitive pixels, each of which corresponds to a particular wavelength. Each pixel will generate an electrical signal of intensity proportional to how much light falls on it. Charged-coupled device... See more on [Ossila Springer](#)

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RUSSIAN FTIR SPECTROMETER (IKFS-2) FOR ...

The first launch is scheduled for 2029. The development of an IKFS-GS Fourier spectrometer, which will be installed on the new Russian geostationary meteorological Electro-M satellites, is also underway. ...

Russian mass spectrometry

The current state of mass spectrometry in Russia has been reviewed, detailing the changes and advances that were introduced following the establishment of the Russian Federation.

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Mass Spectrometry in Russia

The comparatively young Russian Mass Spectrometry Society is working hard to consolidate the mass spectrometrists from Russia and foreign countries, to train young professionals ...

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