EIT Opto-Routing

Materials for High-Precision Spectrometers

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Top 10 High-Precision Spectroscopy Instruments for

Discover the top 10 high-precision spectroscopy instruments for analytical chemistry labs, including UV-Vis, NMR, AAS, and more. Learn how

Applications in High-Precision Spectroscopy , Menlo

Exploreoursolutionsdesignedtoadvancehigh-precision&dual-combspectroscopyand trace gas detection in both laboratory and field environments.

High Precision ED-XRF Analysis of Geological

Samples

This application report discusses the utilization of an ED-XRF spectrometer to analyze major and minor elements in samples of geological and mineral materials.

Prism Spectrometers , Precision, Versatility & Usage

Precision in Measurement At the heart of a prism spectrometer's precision is its ability to accurately measure the angles at which light is refracted.

A High-Precision Calibration Method for Spectrometers

This article describes the principles of a high-precision calibration method that utilizes a Fabry-Perot multilayer structure, providing multiple sharp calibration peaks over the full spectrometer

Elemental Analysis Solutions & Analytical Instruments , SPECTRO

SPECTRO is a global leading supplier of advanced analytical instruments like ICP, Arc Spark OES, and XRF spectrometers for precise elemental analysis of materials.

High Mass Resolution is Essential for Confident Compound Detection

This novel configuration of a benchtop hybrid quadrupole-Orbitrap mass spectrometer opens up new possibilities for GC-amenable compounds. The following examples highlight the benefits of high

Stress-engineered ultra-broadband spectrometers

Here, we report on a low-cost, visible to SWIR, miniaturized spectrometer design enabled by a mass-producible, nonlithographic method of

High-Precision Ultra-Long Air Slit Fabrication Based on MEMS

This poses new challenges in the manufacturing of high-precision, low-defect ultra-long slits using MEMS technology. Furthermore, when the thickness of single crystal silicon material is in the order of

Precision Ceramic Components for Mass

We manufacture our own braze alloys, metallising inks, and ceramic bodies, enabling us to guarantee the hermetic quality and repeatability that scientific instruments

Fourier-transform infrared spectroscopy

Fourier transform infrared spectroscopy (FTIR) is a technique used to obtain an infrared spectrum of absorption or emission of a solid, liquid, or gaseous material.

Chemical Analysis & Material Identification , SPECTRO

Utilize SPECTRO's ICP-OES and X-ray fluorescence instruments for precise elemental analysis of materials, chemicals, and additives in the chemical industry.

The 10 Best Lab Spectrometers of 2026 (Reviews)

What are the best lab spectrometers products in 2026? We analyzed 1,093 lab

spectrometers reviews to do the research for you.

A High-Precision Calibration Method for Spectrometers

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High Resolution Spectroscopy

In this section, we consider application of the high-resolution THz spectroscopy in analytical chemistry, biology and medicine. The high-resolution THz spectrometers and the results of their use for studying

(PDF) A High-Precision Calibration Method for

We present a high-precision nonlinear wavelength calibration method, which is based on two or more reference lines from a calibration lamp.

Choosing the Right Spectrometer

For example, a spectrometer can be used to identify materials or molecules. This buying guide will focus on the different spectrometry techniques, including what

New Product Advances in Vibrational and Atomic Spectroscopy

Spectroscopy instrumentation and software are transitioning to intelligent, interconnected analytical ecosystems. Advances in detection, optics, and software across electronic, vibrational,

Liquid Chromatography Mass Spectrometers (LC-MS)

Whether you're analyzing small or large molecules or biologics, our range of triple quadrupole and high-resolution LC-MS mass spectrometers have you covered.

Miniature integrated spectrometers towards high-performance and

This design balances high-performance and low-cost manufacturing of an on-chip spectrometer by integrating low-cost solution-processable perovskite materials using a planar

North America Plasma Emission Spectrometer

Market, By Application

Industrial and commercial applications form the core revenue streams for plasma emission spectrometers in North America, driven by the need for precision, automation, and regulatory

Spectrometers for the Semiconductor Industry: Ensuring Precision and

Spectrometers, especially ellipsometry, provide critical data on the thickness, refractive index, and absorption of thin films, ensuring consistency and performance. Spectroscopic analysis of

Mass spectrometry

Each analyzer type has its strengths and weaknesses. Many mass spectrometers use two or more mass analyzers for tandem mass spectrometry (MS/MS). In

DECHEMA , 59. Jahrestreffen Deutscher Katalytiker

Join us from 18-20 March 2026 in the historic city of Weimar for the next edition of the "Jahrestreffen Deutscher Katalytiker" - one of Europe's leading conferences

Precious Metals Analysis , SPECTRO

SPECTRO offers a broad range of XRF and OES spectrometers optimized for precise analysis of precious metals, ensuring accuracy and reliability.

Spectroscopy and Spectrometry Instruments

Getting your material data exactly right is a massive win for your whole operation. We think it's the best way to keep your quality high and your team moving fast. There's not a trace of fluff in this guide--all

High-Sensitivity, High-Resolution Miniaturized

Miniaturizedspectrometershavesignificantlyadvancedreal-timeanalyticalcapabilities in fields such as environmental monitoring, healthcare

Spectrometer , Precision, Analysis & Light Waves

Isthisconversationhelpfulsofar?PrecisionandAnalysisinSpectroscopySpectrometers play a pivotal role in the scientific analysis of

Ultrahigh-resolution spectrometer based on 19

The results presented in this work will stimulate further research on high-precision spectrometers based on advanced 2D BSI-CMOS array detectors

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