



Rigaku is the global pioneer in reduced-size powder diffraction instrumentation. The benchtop MiniFlex™, now in its sixth generation, changed the perception of how people expected a

WELCOME

powder diffractometer to look and how much space was required to house one. We now introduce the MiniFlex XpC as a key component of lab automation solutions. Smaller than what you would expect for an XRD instrument that is part of factory automation, but all the performance that you would expect from a lab-based instrument. Also, this month we highlight: A case study on the use of Rigaku's handheld Raman spectrometers in combating

• An EDXRF application note that highlights the ability to measure the amount of

chlorides in crude, a contaminant that can contribute to corrosion in the piping at refineries during cracking as well as mid-stream in pipelines A WDXRF application note that illustrates fast and accurate determination of the

Transnational Organized Criminal (TOC) groups who are mass producing narcotics

- composition of natural & processed iron ores We hope you find the material of interest.
- **UPCOMING EVENTS**

The Battery Show

Stuttgart, Germany

MRS Fall 2021

Boston, MA

Nov. 29-Dec. 2, 2021 Nov. 30-Dec. 2, 2021

VIEW MORE FEATURED PRODUCT

Semicon Japan 2021 Tokyo, Japan

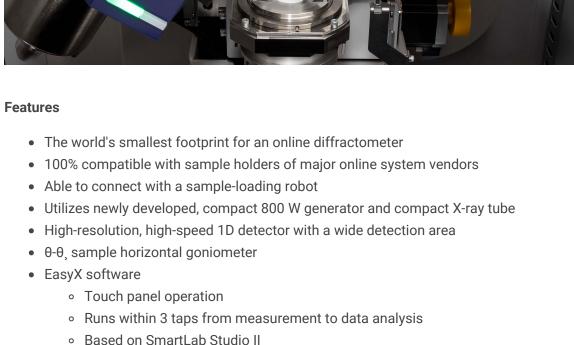
Dec. 15-17, 2021



with other instruments. With an 800 W X-ray source and a short-diameter goniometer, the system has the performance of a lab unit, and thus can greatly improve throughput for quality

control measurements.

there will be no accidental error variance from operator to operator. The MiniFlex XpC can be configured with a conveyor belt or robot for automated sample processing and collaboration



Languages: Japanese, English, Chinese

UPCOMING RIGAKU WEBINARS

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December 2, 2021 9 AM | CST

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long experiments. You will learn:

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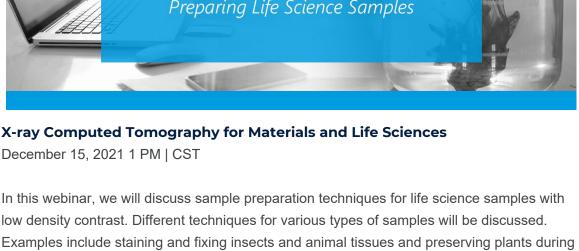


crucial role. It is also often combined with other analytical methods to allow drawing a connection between the structure and physical properties of the framework. As a result of those multi-technique approaches, a border between a single crystal and powder diffraction

techniques often disappears. In this TOPIQ webinar, we would like to present you with standard and entirely new Rigaku solutions for diffraction methods for MOF research.

A RIGAKU WEBINAR Diffraction Methods for MOF Investigations Thursday, Dec 2, 2021 at 4 PM | CET





How to prepare life science samples

 How to stain and fix insects and animal tissues How to preserve plants during long experiments

FEATURED APPLICATION NOTES Organic Chlorides in Crude by ASTM D4929 Part C Applied Rigaku Technologies Chlorides in crude contribute to corrosion in the piping at refineries during cracking as well as mid-stream in pipelines. Organic chlorides do not naturally occur in crude; however, EDXRF inorganic chlorides in the form of salts and trace levels of residual organic chlorides from various natural sources can contribute to the total chlorine content. Inorganic chlorides can be removed from crude through a wash process; however, low levels of organic chlorides may remain.

> **Fast and Accurate Determination of the** Composition of Natural & Processed Iron Ores by the Fusion Method on Simultix 15 Rigaku Corporation Iron is the most common metal in industrial use. Modern infrastructure cannot be realized without iron alloys. The most dominant raw material for making metallic iron is iron ore. Currently, a huge volume of iron ore is traded in the world market. Although other factors affect iron ore prices such as ore size, ore type, physical properties, chemical composition and content of impurities, etc., ore grade (total iron content), in iron ore is the most critical factor for pricing. Therefore, highly accurate analysis to determine the total iron content is required. Read More >

Contracts at the pipelines may contain clauses limiting the amount of organic chloride allowed in the crude. And at the refinery, after desalting and desulfurization, crude needs to be analyzed for any residual organic chlorides possibly still entrained in the feedstock to avoid potential damage during

measurement of low level and trace chlorine is critical in the petroleum industry. To meet this vital need, Rigaku offers

the refining process. And so, the need for a reliable

NEX CG II monochromatic EDXRF using Cartesian

Geometry and polarization.

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WDXRF

Learn more how Rigaku worked in conjunction with a U.S. federal law enforcement agency in developing a counternarcotics, technology-based interdiction training pilot

Rigaku Analytical Devices

Degrading the Illicit Precursor Chemical Supply Chain Network Operating in Myanmar Region

enforcement agency. Rigaku's focus was to enhance the agency's ability in using interdiction technology to identify and degrade the illicit

program to assist Myanmar's primary counter-drug law

precursor chemical supply chemical (PCSC) networks used by Transnational Organized Criminal (TOC) groups and their proxies operating in Myanmar to mass produce narcotics with a specific focus on methamphetamine. Read More >

9009 New Trails Drive, The Woodlands, TX 77381, United States

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