

Press Release

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The March 2020 edition of *The Bridge*, the Materials Science newsletter from Rigaku, is now online

Issue 81 of The Bridge newsletter from Rigaku focuses on materials science and is available from the company's website

March 25, 2020 – The Woodlands, Texas. The March edition of [The Bridge](#), the materials science newsletter from [Rigaku Corporation](#), is now available online on the company's global website. *The Bridge* features the latest news, techniques and instrumentation related to X-ray based materials science, and includes informative articles and scientific papers.

The current newsletter includes an article on the characterization of lithium-ion battery materials. It introduces examples of characterizing these materials using operando measurement, which is now possible with lab-scale X-ray diffractometers due to improved performance of X-ray sources, optical elements, and detectors.

Among the featured application notes is a report covering the analysis of biological specimens by electron microscopy. The report discusses X-ray imaging of structures that range in size down to sub-micrometers, and highlights the performance of the [Rigaku nano3DX](#) X-ray microscope.



Rigaku nano3DX X-ray microscope for microtomography of large samples at high resolution

This month's wavelength dispersive X-ray fluorescence ([WDXRF](#)) application note presents an improved method for determining total iron in iron ores by the pressed powder method, which covers crude iron ores and agglomerates.

The energy dispersive X-ray fluorescence ([EDXRF](#)) application note from Applied Rigaku Technologies, Inc. ([ART](#)) describes the measurement of low levels of nickel and vanadium in crude to meet the NYMEX/CME specifications for light sweet crude oil futures in accordance with ASTM D8252 - *Standard Test Method for Vanadium and Nickel in Crude and Residual Oil by X-ray Spectrometry*.

A featured video presents an intriguing lecture from Professor Sir Martyn Poliakoff exploring the relationship between a chemist and the elements. Also included is a collection of news reports related to materials science, as well as updates on the rescheduling of upcoming events due to the spread of the novel coronavirus (COVID-19).



Readers can subscribe to the newsletter or view the current issue online at <https://www.rigaku.com/subscribe>

About Rigaku

Since its inception in Japan in 1951, Rigaku has been at the forefront of analytical and industrial instrumentation technology. Rigaku and its subsidiaries form a global group focused on general-purpose analytical instrumentation and the life sciences. With hundreds of major innovations to their credit, Rigaku companies are world leaders in X-ray spectrometry, diffraction, and optics, as well as small molecule and protein crystallography and semiconductor metrology. Today, Rigaku employs over 1,400 people in the manufacturing and support of its analytical equipment, which is used in more than 90 countries around the world supporting research, development, and quality assurance activities. Throughout the world, Rigaku continuously promotes partnerships, dialog, and innovation within the global scientific and industrial communities.

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