

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

Issue 89 of The Bridge newsletter from Rigaku focuses on materials science and is available from the company's website

November 27, 2020 – The Woodlands, Texas. The November 2020 edition of [The Bridge](#) newsletter from [Rigaku Corporation](#) is now online, accessible on the company's global website. *The Bridge* focuses on materials analysis, featuring the latest news, techniques and instrumentation related to X-ray based materials science.

The latest newsletter edition offers previews of several upcoming virtual events, including the [2020 MRS Virtual Spring/Fall Meeting & Exhibit](#), during which Rigaku will present a discussion on *XRD Solutions for Battery Research*, and the upcoming [Advanced Topics in Practical Crystallography](#) lecture series.

The technical article for the month presents an overview of the principles of powder X-ray diffraction ([XRD](#)) and explains what can be evaluated by method. The instrumentation and applicable evaluation items are also described.

Featured application notes include a report describing the analysis of coal fly ash as carried out by the fusion bead method using a high-performance wavelength dispersive X-ray fluorescence ([WDXRF](#)) spectrometer. Another application report presents the analysis of trace elements in aqueous solutions using the advanced Cartesian geometry energy dispersive X-ray fluorescence ([EDXRF](#)) in conjunction with the patented Rigaku UltraCarry® sample preparation technique.

Materials Analysis in the News, a collection of news reports related to materials science from around the world, includes a story about a new way to decipher the atomic-level structure of materials based on data gathered from ground-up powder samples. For the study, X-ray powder diffraction experiments were performed at the ALBA synchrotron in Barcelona, Spain.

Another news item reports that scientists at the U.S. Department of Energy are finding new, low-cost ways to make better metal alloys and composites. Much of the success comes from using solid phase processing approaches to create materials with improved properties.



New Rigaku SmartLab intelligent multipurpose X-ray diffractometer



Profiles of analytical instrumentation, as well as links to useful resources and a featured video are also provided. 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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