

Press Release

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

Issue 54 of The Bridge newsletter from Rigaku concentrates on materials science and is available from the company's website

December 28, 2017 – The Woodlands, Texas. The latest edition of [The Bridge](#), the materials science newsletter from [Rigaku Corporation](#), is now available on the company's global website. *The Bridge* presents current news and analysis techniques related to the latest developments in X-ray based materials science.

News reports, articles and scientific papers related to X-ray diffraction ([XRD](#)), wavelength dispersive X-ray fluorescence ([WDXRF](#)), energy dispersive X-ray fluorescence ([EDXRF](#)), total reflection X-ray fluorescence ([TXRF](#)) and [Raman](#) spectrometry are presented, along with new application reports for the various X-ray analytical techniques.

The December 2017 edition of *The Bridge* contains a [Rigaku Journal](#) article describing thickness and composition analysis of thin film samples using the Fundamental Parameters method by XRF analysis. A second featured article discusses the [Rigaku SmartLab SE](#) system's compliance with regulations/guidelines related to electronic records and signatures.

Application reports are presented for various X-ray analysis techniques, including an application note describing the characterization of a next-generation ultrahigh-density magnetic recording medium by in-plane X-ray diffraction, and report detailing the analysis of ultra-low sulfur in automotive fuels according to ASTM D2622-10 - *Standard Test Method for Sulfur in Petroleum Products by Wavelength Dispersive X-ray Fluorescence Spectrometry* – highlighting the [Rigaku Micro-Z ULS](#) sulfur analyzer.

The video for the month features "Envisioning Chemistry," a project whose aim is to make simple chemistry beautiful and features microscopy, high-speed and infrared footage of chemical transformations.

“Material Analysis in the News” presents a roundup of this month’s most engaging news stories from around the world, including a link to a story about a group of scientists at Japan's RIKEN Center for Emergent Matter Science developing a new quantum-mechanical process to extract current from solar cells in a more efficient way.

“Recent Scientific Papers of Interest” is another monthly feature presenting recently published material analysis papers. The new issue features 20 recently published papers on wide variety of research relating to materials science.

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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