

Press Release

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

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Issue 61 of The Bridge newsletter from Rigaku, covering the latest materials science news, is available from the company's website

July 31, 2018 – The Woodlands, Texas. The latest edition of [The Bridge](#), the materials science newsletter from [Rigaku Corporation](#), is now online, available on the company's global website. *The Bridge* highlights current news and techniques related to X-ray based materials science, including news reports, articles and scientific papers.

The July 2018 edition of *The Bridge* contains application papers for X-ray diffraction ([XRD](#)), energy dispersive X-ray fluorescence ([EDXRF](#)) and wavelength dispersive X-ray fluorescence ([WDXRF](#)), as well as useful content related to X-ray diffraction & elemental analysis

This month's issue contains two featured articles. The first discusses data visualization in XRD and how very small areas of a sample can be analyzed when a small-collimated incident X-ray beam (a few hundred microns) is utilized. [SmartLab Studio II](#) software enables specification of the positions on the sample surface to be measured and selection of which type of measurement should be made at the specified measurement positions, enabling greater control of a material's physical properties during development.

Another article explores the newest member of the Rigaku XtaLAB Synergy series. The [XtaLAB Synergy-DW](#) X-ray diffractometer system with a dual wavelength X-ray source combines the increased flux of a rotating anode X-ray source with the flexibility of two different wavelengths, making it ideal for a wide range of crystallographic applications.



**Rigaku XtaLAB Synergy-DW
high-flux dual wavelength
diffractometer with HPC detector**

"Material Analysis in the News" presents the latest global news stories, including a report about the development a molecular system – by chemists at Johannes Gutenberg University Mainz ([JGU](#)) and at the Université de Montréal in Canada ([UdeM](#)) - capable of precise optical pressure measurements with potential applications in the fields of materials sciences, homogeneous and heterogeneous catalysis, and any fields where pressure changes need to be monitored.

Another story describes how researchers at the UCLA [Samueli School of Engineering](#) are working to address "hotspots" in computer chips that degrade their performance by developing a new semiconductor material that is more effective at drawing and dissipating waste heat than any other known semiconductor or metal.

"Recent Scientific Papers of Interest" - a monthly compilation of material analysis papers appearing in recently released journals and publications - features 26 recently published research papers related to materials science.

Also included is a schedule of upcoming scientific conferences and workshops, new application reports for various X-ray analysis techniques, book reviews and a featured video of the month.

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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