

## Press Release

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# Winter 2019 edition of the Rigaku Journal features latest X-ray analysis news and applications

*The latest issue- Vol. 35 No. 1 - of the Rigaku Journal is available to download from the company's website.*

**March 4, 2019 – The Woodlands, Texas.** [Rigaku Corporation](#) has published its latest edition of the [Rigaku Journal](#), which is available for download from the company's global website.

The Rigaku Journal is a scientific and technical journal published by Rigaku to serve the X-ray analysis community. It is a semiannual journal, publishing articles covering to a wide range of X-ray diffraction ([XRD](#)) and X-ray fluorescence ([XRF](#)) applications.

The new issue features a technical article covering the determination of molecular structure of odor components based on crystalline sponge method – a technique that allows single crystal X-ray structure analysis to be applied to target compounds that are otherwise difficult to crystallize.

Other articles include studies of *grazing incidence X-ray diffraction* (GI-XRD) measurements of thin film samples using a 2D detector and 2D *small angle and wide angle X-ray scattering* ([SAXS/WAXS](#)) attachment, cement analysis by *wavelength dispersive X-ray fluorescence* (WDXRF) spectrometry, foreign material analysis using *energy dispersive X-ray fluorescence* ([EDXRF](#)) spectrometers, and trace elemental analyses of beverages and biological materials by *total reflection X-ray fluorescence* ([TXRF](#)) spectrometry.

New products and technology debuts are presented, including the Rigaku [CT Lab HX](#) 3D X-ray benchtop microtomography system for high resolution imaging of large samples. A compact



*The Rigaku CT Lab HX benchtop X-ray micro CT system*

yet powerful micro CT system, it can provide three dimensional X-ray images of a wide variety of samples such as printed circuit boards (PCB's), batteries, food, drugs, medical device, bones, minerals, ceramics, and light metals.

Also featured is the new Ewald3D viewer software module, enabling easy identification of effects, problems or artifacts in difficult or problematic datasets. The new tool allows visualization of measured reciprocal space in 3-dimensions, undistorted and in short timeframes.

The complete issue, individual articles, and back issues are available for download at no cost at <http://www.rigaku.com/downloads/rigaku-journal>

### **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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