

Press Release

The June 2018 edition of the Crystallography Times newsletter is now online

Crystallography Times vol. 10, No. 6, from Rigaku Oxford Diffraction, focusing on single crystal X-ray diffraction, is available from the company's website.

June 21, 2018 – The Woodlands, Texas. The latest edition of [Crystallography Times](#) from [Rigaku Corporation](#) has been published and is now available on the company's global website.

Crystallography Times is a monthly electronic newsletter published by [Rigaku Oxford Diffraction](#) (ROD). With a focus on single crystal X-ray diffraction, it serves the X-ray analysis community by presenting the latest news and crystallographic research.

"Crystallography in the News" is a monthly collection of the latest news and developments from around the world, highlighting the latest research findings in small molecule and protein crystallography and X-ray diffraction.

Among the featured news stories is a report about Rice University scientists' use of a technique called [mix-and-inject serial crystallography](#), employing a rapidly pulsing X-ray laser to reveal how drug-resistant tuberculosis bacteria deactivate the antibiotic molecules intended to treat the deadly lung disease.

Another news item reports on advances in detectors and X-ray microscopes that have made it possible to [measure a ptychographic dataset in seconds](#). Consequently, a new algorithm to enhance ptychographic image reconstruction can be used in a range of scientific domains, including condensed-matter physics, cell biology and electronics.

The Product Spotlight in the current issue features the [Rigaku XtaLAB mini II](#) benchtop chemical crystallography system, a compact single crystal X-ray diffractometer, designed to produce publication-quality 3D structures. This next-generation instrument offers expanded capabilities with the addition of a low-noise, state-of-the-art hybrid pixel array detector as well as the full-featured [CrysAlis^{Pro}](#) software.

The “Lab in the Spotlight” section highlights a different laboratory each month from the global community of X-ray diffraction facilities. This month’s edition highlights [The Matzger Group](#) at the University of Michigan. The Matzger Group focuses on three principal areas: crystal polymorphism of pharmaceutical materials, porous materials and energetic materials.

This month’s book review presents *The Evolution of Scientific Knowledge: From Certainty to Uncertainty* by Edward O. Dougherty (SPIE Press, Bellingham, 2016). The book is about scientific epistemology, the theory of scientific knowledge, and covers the evolution of scientific knowledge from the time of Aristotle to that of genomics.

Also included are recently published scientific papers, a featured video, a schedule of upcoming events, and access to the Rigaku Oxford Diffraction [user forum](#).

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

About Rigaku Oxford Diffraction (ROD)

ROD was formed as the global single crystal business unit of Rigaku Corporation after the acquisition of the former Oxford Diffraction organization from Agilent Technologies in 2015. ROD is a leader in the field of single crystal analysis, both in the field of chemical crystallography as well as macromolecular crystallography. Formed in 1951, Rigaku Corporation is a leading analytical instrumentation company based out of Tokyo, Japan.

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**Rigaku XtaLAB mini II benchtop
chemical crystallography system**