

Press Release

The March 2019 edition of the *Crystallography Times* newsletter is online

Crystallography Times vol. 11, No. 3, from Rigaku Oxford Diffraction, focusing on single crystal X-ray diffraction, is available from the company's website.

March 23, 2019 – The Woodlands, Texas. The newest 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). It focuses on single crystal X-ray diffraction and 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, highlighting the latest research findings in small molecule and protein crystallography and X-ray diffraction from around the world.

One article features the use of surface plasmon resonance and X-ray crystallography to evaluate how GS-6207, a first-in-class HIV capsid (CA) inhibitor, binds to HIV-1 CA hexamers. GS-6207 has picomolar potency and a distinct pharmacokinetic and resistance profile that establishes it as a suitable candidate for a low-dose, long-acting subcutaneous administration to treat HIV infection.

Another news item reports that X-ray crystallography has revealed the existence of a double helical structure in a synthetic macromolecule known for thirty years. The discovery could open up novel applications for the high-strength polymer, called PBDT, beyond the original electrochemical and battery applications, for which it has been recently investigated.

The *Product Spotlight* in the current issue features the [Rigaku XtaLAB Synergy-DW](#) X-ray diffractometer system with a dual wavelength X-ray source. It combines the increased flux of a rotating anode X-ray source with the flexibility of two different wavelengths, making it ideal for laboratories exploring a wide range of research interests.

The new issue also includes a “Lab in the Spotlight” feature highlighting the [Shatrak Group](#) at the Department of Chemistry and Biochemistry at Florida State University in Tallahassee. Specific research interests include photo-switchable molecular materials, intermetallic magnets for magnetic refrigeration and electric vehicles, and low-dimensional magnetic materials such as spin-frustrated 2D magnets and nanomagnets.



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

The new book review covers *Freedom's Laboratory: The Cold War Struggle for the Soul of Science* by Audra J. Wolfe. The book presents a detailed history of science and its role in society during the Cold War, including an exploration of the role that the United States government played in scientific inquiry and discovery around the world in the years following World War II.

Also included are 19 recently published scientific papers, 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 well as macromolecular crystallography. Formed in 1951, Rigaku Corporation is a leading analytical instrumentation company based out of Tokyo, Japan.

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