size is extended to infinity by introducing an asymptotic form of the long-range correlations structure in a finite-sized cell. In order to avoid the effect of the finite size of the cell, the cell performed by arranging the positions of small primary particles and constructing an aggregate matching observed and simulated small-angle X-ray scattering patterns. The simulation is J. Appl. Cryst. (2021).

In the field of Metal-Organic Framework materials, structural investigation plays the most crucial role. It is also often combined with other analytical methods to allow drawing a connection between the structure and physical properties of the framework. As a result of the significant advancements in instrumentation and data analysis, modern structural characterization techniques offer unparalleled insights into the complex structures of MOFs. These techniques, including X-ray diffraction, neutron diffraction, and electron microscopy, provide quantitative information on the molecular and supramolecular architecture of MOFs, enabling deeper understanding of their properties and potential applications.

MS & STA-FTIR): Principles, Applications & Tips
Thermal Analysis Technical Seminar: Let's Evaluate Materials With EGA (STA-FTIR)

This webcast summary covers the basics of XRF as applied to solid analysis as well as pharmaceutical applications, such as analysis of catalyst residues in APIs and intermediates, uniformity of key excipients and certain APIs in formulations. CNO can be measured by XRF systems due to the broadly applicable mechanism underlying XRF measurement technology. This makes the technology useful in many different applications, including the pharmaceutical industry, where speed is crucial, employing analytical methods that require minimal sample preparation while offering rapid analyses is highly advantageous. This is readily achieved through development and manufacturing to ensure product purity and quality. In a setting where speed is crucial, employing analytical methods that require minimal sample preparation while offering rapid analyses is highly advantageous. This is readily achieved.

The pharmaceutical industry is a fast-paced environment, requiring frequent sample testing throughout development and manufacturing to ensure product purity and quality.