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Approach of Serial Crystallography

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Message from the Guest Editor

Dear Colleagues,

Serial crystallography (SX) using X-ray-free electron lasers (XFEL) or synchrotron X-rays is an emerging research area that offers the opportunity to determine room temperature structures without causing or reducing radiation damage, respectively. Moreover, pump–probe experiments using optical lasers or liquids application method provide an opportunity to observe time-resolved molecular dynamics, beyond the traditional X-ray crystallography technique. Starting with serial femtosecond crystallography (SFX) using XFEL, SX is now being extensively conducted on synchrotron using serial millisecond crystallography (SMX) or the serial synchrotron crystallography (SSX) technique.

I invite researchers to contribute to this Special Issue on “Approach of Serial Crystallography”, which is intended to serve as a unique multidisciplinary forum covering broad aspects of current status of SX beamline, research result, review, and research outlook. This issue also collects preliminary and negative research findings in terms of collecting more information and expanding the base of the SX.



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Special Issue



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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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