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Non-Ambient Crystallography

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Message from the Guest Editors

The application of external stimuli (e.g., pressure, temperature, electromagnetic waves, reactive atmosphere, etc.) allows a deeper insight into the behavior of materials in unconventional, in some case extreme, environments, enabling a better understanding of the physics and chemistry of matter in standard conditions.

Nowadays, facilities for the application of non-ambient conditions are easily accessible in many laboratories and an increasing number of studies are unveiling the correlation between the material structure and the external stumuli, both for fundamental research and for practical applications.

The Special Issue on “Non-Ambient Cystallography” aims to gather the innovative achievements of this vast and interdisciplinary community.

Keywords

- Pressure/Temperature dependent crystallography
- Experiments under extreme conditions
- Phase transitions
- *In-situ* crystallography
- Applied electro-magnetic fields

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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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