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State-of-the-Art Liquid Crystals Research in Japan

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Deadline for manuscript submissions:

closed (31 March 2023)

Message from the Guest Editors

Liquid crystals (LCs) are substances that have liquid properties (fluidity) and exhibits the optical anisotropy of crystals, and exhibits properties intermediate between crystals and liquids. With a thermotropic or a lyotropic phase-transitions between crystal ⇄ LC ⇄ liquid, the molecular aggregates could be reversibly arranged and be expected by molecular dynamic simulations. The alteration of molecular aggregates is well known to significantly affect to various physical behavior, in the photophysical, optical, electrical, and chemical aspects. Therefore, there is no doubt that consolidating the results of cutting-edge liquid crystal research into a single special issue will greatly contribute to the future development of the fields of chemistry, materials, optics, and electronics.

This special issue, titled “State-of-the-Art Liquid Crystals Research in Japan” is intended to provide an innovative and broad perspective on the LC researches in Japan in the field of chemistry, physics, optics, photonics, photo-alignment techniques, material and devices, and others.

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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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