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Ferroelectric and Ferromagnetic Liquid Crystals

Guest Editor:

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Deadline for manuscript submissions:
closed (30 September 2019)

Message from the Guest Editor

Ferroelectric and ferromagnetic liquid crystals (FLC) are smart materials with numerous structural puzzles that may one day be applied to industry. They are extremely useful, because they have a several-orders-of-magnitude-higher response time than traditional liquid crystals used in displays.

The potential topics of this special issue include, but are not limited to, the following:

- Novel FLC Phases, Structure, and Phase Behaviour
- Design and Synthesis of FLC Materials
- Photonic, Electro-, and Photo-Responsive FLC Systems
- Theory and Simulations of FLC Systems
- Hybrid and Nanostructured FLC Systems
- Antiferroelectric, Intermediate, and Re-Entrant Phases
- Memory Effects in FLC Materials
- Confined FLC Systems and Defects
- Self-Assembling of FLC Materials
- Applications of Ferroelectric and Ferromagnetic Liquid Crystals

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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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