Special Issue

Pushing the Boundaries of Liquid Crystal-Enabled Technologies and Applications

Message from the Guest Editor

Original papers expanding the forefront of liquid crystal research are invited, including novel applications (use cases), systems (subsystems), devices (components), techniques (such as design, modeling, fabrication, and measurement), and materials (synthesis and characterization). Submissions that report a wide range of LC-enabled devices and applications across various wavelengths are encouraged, including microwave and mmWave (from MHz to GHz), THz, infrared, and optical. While incremental improvements in device structures and topologies have been targeted over the past three decades, this Special Issue particularly invites submissions on recent successes in theoretical considerations, advancements in modulation and tuning methods as well as experimental validation in pushing the boundaries of device/chip manufacturing and unconventional material synthesis/characterization. Collectively, the data and new methodology presented in this Special Issue are expected to underpin a significant performance improvement and/or cost reduction of LC-enabled technology for commercialization by leveraging cross-disciplinary innovation and multi-objective optimization.

Guest Editor

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Deadline for manuscript submissions

closed (20 October 2024)

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About the Journal

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.

Editor-in-Chief

Prof. Dr. Alessandra Toncelli
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