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Advances in Nematic Liquid Crystals

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Deadline for manuscript
submissions:

closed (30 June 2019)

Message from the Guest Editors

In the field of soft matter self-organization studies the investigations of nematic liquid crystals have provided valuable contributions during the last several decades. Nowadays, this is still a very open field. This Special Issue will collect selected contributions shining light on current studies of nematic phase based materials, indicating new paths for soft matter engineering. Topics for the issue will include the following:

- Structure–property relationships in nematic phase
- New nematogenic species
- Nematics for out of visible applications (NIR, IR, THz, GHz)
- High birefringence nematic liquid crystals
- Twist-bend nematogens
- Bend-core nematics and biaxial nematic phases
- Dual frequency driven nematic
- Nanoparticle doped nematic phase
- Polymer dispersed nematic liquid crystals
- Confined structures of nematic liquid crystals
- Chiral dopants and chiral nematic materials



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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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