

## Special Issue

# Ionic Liquid Crystals

### Message from the Guest Editor

Thermotropic Ionic Liquid Crystals (ILCs) are materials able to embed the extraordinary solvation and conductive properties of ionic liquids (ILs) within the partially-ordered phases of liquid crystals (LCs). Applications of ILCs mostly tend to exploit the organized/anisotropic/partially ordered structure of the ionic fluid phase for enhancing the conduction of matter and or charge. However, the quest for an ionic nematic phase with a wide thermal range of stability at or around room temperature is still an open challenge. Therefore, we invite researchers to submit their papers to this Special Issue of *Crystals* dedicated to "Ionic Liquid Crystals". Manuscripts can be related to any aspect of ILCs science, for example (but not limited to):

- synthesis of novel ILC compounds;
- structure/property relationships in ILCs;
- novel types of ionic mesophases;
- applications of ILCs in devices;
- biotechnological applications of ILCs;
- physical properties of ionic mesophases;
- computer simulations of the phase behaviour of ILCs;
- theoretical models of ILCs

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### Guest Editor

Dr. Giacomo Saielli

CNR Institute on Membrane Technology, Padua Unit and Department of Chemical Sciences, University of Padua. Via Marzolo, 1 - 35131 Padova, Italy

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### Deadline for manuscript submissions

closed (31 December 2018)



## Crystals

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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.

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### Editor-in-Chief

Prof. Dr. Alessandra Toncelli

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