Ionic Liquid Crystals

Guest Editor:

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Deadline for manuscript submissions: closed (31 December 2018)

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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Message from the Editor-in-Chief

Crystals are a very important class of structured material, both from a scientific and technological viewpoint. In 2011, the Nobel Prize in Chemistry was awarded to Dan Schechtman for his work on quasicrystals. Our journal already expresses in its name *Crystals* that its focus centers around all aspects of this class of materials, which has fascinated humankind from its beginning. Despite decades of research on crystals, it remains a hot and fascinating research topic.

*Crystals* is a good platform for dissemination of knowledge in this area.

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**Rapid Publication:** manuscripts are peer-reviewed and a first decision provided to authors approximately 12.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2019).

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