

Special Issue

Synthesis, Characterization and Applications of Ionic Liquids and Ionic Liquid Crystals

Message from the Guest Editors

Over the past two decades ionic liquids (ILs) and ionic liquid crystals (ILCs) have had a wide impact on science and technology, representing cutting-edge materials for various applications. ILs, organic salts which melt below 100°C, find application as catalysts or solvents in organic chemistry, fluids in separation, extraction and purification techniques, electrolytes, storage media for toxic gases, etc. ILCs are also organic salts generally forming isotropic liquid phase above 100 °C. This special issue will cover both theoretical and experimental aspects focusing on synthesis and characterization of novel compounds, novel types of ionic mesophases, efficient protocols to lower their production costs, the relationship between molecular design and mesomorphic properties, applications in devices and so on.

You are invited to contribute to this Special Issue with high quality papers that may represent pivotal points in the aforementioned scientific and technological fields and that may open the way to future challenges and insights for both academic and industrial community.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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