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Nano-Structured Liquid Crystals

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Message from the Guest Editors

Liquid crystalline mesophases or liquid crystals are intermediate states of matter between the liquid and solids. This state of matter originates from a particular arrangement of molecules or nanoscale units. Nano-structured liquid crystals, either synthetic of derived from natural sources, have in the past decade become a very important field of research covering a wide range of applications, from biomedicine to optics. Biomimetic design based on the supramolecular organization of mesophases is an innovative approach for the development of new functional materials and is a subject of broad and current scientific interest. This Special Issue of Nanomaterials on “Nano-Structured Liquid Crystals” aims to collect the current developments in mesomorphic nanomaterials covering synthetic and physical processing, chemical and/or physical functionalization, biomimetic design, properties and applications. It is our pleasure to invite you to submit a manuscript to this Special Issue and contribute to the advances in this field.

Deadline for manuscript submissions:
closed (31 March 2021)

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Editor-in-Chief

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call "nanomaterials". These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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