



## Current Research in Nematic Liquid Crystal Nanocomposites

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Deadline for manuscript  
submissions:

**20 August 2024**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue will present comprehensive research outlining progress on the impact of nanoparticles in liquid crystal physics, the emergence of new properties at the nanocomposite systems, and improvements in the performance of liquid crystal devices, as well as the invention of new kinds of applications and devices. This also includes the major problem of dispersion stability, surface activation, the use of a liquid crystal host to order nanoparticles, and theoretical description and simulations of nanocomposite systems. We invite authors to contribute original research articles and review articles covering current progress on liquid crystal nanocomposites.





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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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