Special Issue

Chirality in Micro-Nanostructures and Physical Chemical Applications

Message from the Guest Editors

The chiral activity observed in single nanostructures and in their assemblies has found several new application fields in recent years. These features as chiral materials have enabled their rapid and efficient technological translation for several potential applications, including (bio)sensing and optoelectronics, which, in turn, have opened new fascinating and multifaceted scenarios regarding chirality and nanotechnologies. The research topics of the present Special Issue include but are not limited to the following subjects:

- Design and synthesis of micro-nanostructures;
- Functionalization procedures and surface modifications of micro-nanostructures;
- Physical and chemical characterizations of micro-nanostructures;
- Opto-electronic applications of chiral micro-nanostructures;
- Applications of micro-nanostructures in sensing and biosensing;
- Bio-applications of chiral micro-nanostructures.

Both research papers and review articles will be considered. See more information in https://mdpi.com/si/125151

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closed (20 September 2023)

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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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