



an Open Access Journal by MDPI

Chirality in Micro-Nanostructures and Physical Chemical Applications

Guest Editors:

Dr. Gabriele Giancane

Dipartimento di Beni Culturali,
Università del Salento, Lecce,
Italy

Dr. Simona Bettini

Dipartimento di Ingegneria
dell'Innovazione, Università del
Salento, 73100 Lecce, Italy

Deadline for manuscript
submissions:

closed (20 September 2023)

Message from the Guest Editors

Dear Colleagues,

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>



mdpi.com/si/125151

Dr. Gabriele Giancane
Dr. Simona Bettini
Guest Editors

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University
of California Davis, One Shields
Avenue, Davis, CA 95616-5270,
USA

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (General Chemical Engineering)

Contact Us

Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/nanomaterials
nanomaterials@mdpi.com
[X@nano_mdpi](https://x.com/nano_mdpi)