



an Open Access Journal by MDPI

## Biomimetic Nanomaterials II

Guest Editors:

**Prof. Dr. Xianghui Xu**

Department of Pharmacy,  
College of Biology, Hunan  
University, Changsha 410082,  
China

**Dr. Yachao Li**

Department of Pharmacy,  
College of Biology, Hunan  
University, Changsha 410082,  
China

Deadline for manuscript  
submissions:  
**closed (10 November 2023)**

### Message from the Guest Editors

Dear Colleagues,

The past five decades have seen studies in biology, biotechnology, pharmacology and medicine focusing on genetic and epigenetic determinants. In the most recent years, the overall approach has moved towards a genome/proteome-wide scale. Nanomaterials are the elective starting point for biomimetics because of their nano-scale and evidence that they can be combined in various formulations to improve and better mimic natural features, providing scientists with reliable tools for synthetic biology and nanotechnology approaches to basic and translational research.

This Special Issue will attempt to cover recent advances in the design and use of biomimetic nanomaterials in multiple fields of application, e.g., the development of biomimetic scaffolds for regenerative medicine, nanomaterial-based biosensors and antimicrobials, as well as biomimetic nanoparticle vaccines and nano-carriers for drug delivery, including front-end approaches to bioremediation and green chemistry.

See more information in: <https://mdpi.com/si/167145>

Prof. Dr. Xianghui Xu  
Dr. Yachao Li  
Guest Editors



[mdpi.com/si/167145](https://mdpi.com/si/167145)



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](http://www.mdpi.com)

[mdpi.com/journal/nanomaterials](http://mdpi.com/journal/nanomaterials)  
[nanomaterials@mdpi.com](mailto:nanomaterials@mdpi.com)  
[X@nano\\_mdpi](https://x.com/nano_mdpi)