

## Special Issue

# Biophysical and Biochemical Effects of Nanomaterials in Cells

### Message from the Guest Editors

The present Special Issue of *Nanomaterials* aims to present current state-of-the-art studies in all fields of nanoecotoxicology to refine our understanding of the potential risks posed by these special materials. The toxicity of nanomaterials not only results from the breakdown products of small molecules, but also from the size/form of the nanomaterials and their surface properties (which can influence their behavior in various environments), their reactivity, and their capacity to act as vectors (i.e., the capacity to adsorb/bind various chemicals, including pharmaceuticals). In the present Special Issue, we invite contributions from leading groups in the field with the aim of giving a balanced view of the current state-of-the-art in this discipline.

**Keywords:** nanotoxicity; fate; transformation; biomarkers; protein and lipid clusters; steric interactions; genotoxicity See more information in <https://www.mdpi.com/si/144799>

---

### Guest Editors

Prof. Dr. François Gagné

Dr. Christian Gagnon

Dr. Eva Roubeau

---

### Deadline for manuscript submissions

closed (30 September 2023)



## Nanomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.4  
CiteScore 8.5  
Indexed in PubMed



[mdpi.com/si/144799](https://www.mdpi.com/si/144799)

*Nanomaterials*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[nanomaterials@mdpi.com](mailto:nanomaterials@mdpi.com)

[mdpi.com/journal/  
nanomaterials](https://www.mdpi.com/journal/nanomaterials)





# Nanomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.4  
CiteScore 8.5  
Indexed in PubMed



[mdpi.com/journal/  
nanomaterials](https://mdpi.com/journal/nanomaterials)



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Shirley Chiang  
Department of Physics, University of California Davis, One Shields  
Avenue, Davis, CA 95616-5270, USA

---

### 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, CAPIus / SciFinder, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Chemistry, Multidisciplinary) / CiteScore - Q1  
(General Chemical Engineering)