

## Special Issue

# Frontiers in Nanotoxicology

### Message from the Guest Editor

Nanotoxicology is an arising discipline interested in characterizing and categorizing the adverse effects induced by nanomaterials for determining relationships of structure and function between nanoparticles and toxicity. The application of nanotechnology is one of the fastest growing areas of materials science, but the applied research in nanotechnology is ahead of nanotoxicological research. This Special Issue will combine scientific articles and reviews devoted to such problems of nanotoxicology as the biological effects of both widely known and emerging nanomaterials, the effects of nanoparticle size, geometry and surface properties on toxicity and dose-response relationships, cell and molecular mechanisms of nanotoxicity, environmental toxicology of nanomaterials, research of nano-bio interfaces, new research methods for nanotoxicology and nanomedicine, predictive and personalized nanotoxicology. Works based on an interdisciplinary approach regarding new biomedical nanomaterials are also welcomed.

---

### Guest Editor

Dr. Alexander Gusev

1. Department of Functional Nanosystems and High-Temperature Materials, National University of Science and Technology "MISIS", 119991 Moscow, Russia
2. Institute "Nanotechnology and Nanomaterials", G.R. Derzhavin Tambov State University, 392000 Tambov, Russia

---

### Deadline for manuscript submissions

closed (31 July 2021)



## Nanomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.3  
CiteScore 9.2  
Indexed in PubMed



[mdpi.com/si/39957](https://mdpi.com/si/39957)

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

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





# Nanomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.3  
CiteScore 9.2  
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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

---

### Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science, University of  
Birmingham, Birmingham B15 2TT, UK

---

### 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 (Physics, Applied) / CiteScore - Q1 (General  
Chemical Engineering )