

## Special Issue

# Nanomaterials for Biosensor and Bioassay Applications

### Message from the Guest Editor

Nanomaterial-based biosensors are an instrument that is sensitive to biological substances and converts their concentration into electrical signals for detection, having broad applications in many fields. During the past few years, there has been an increasing amount of research on the use of nanomaterials in diverse areas of biomedical research, including biological sensing, labeling, medical imaging, and therapy. The introduction of nanotechnology into medical diagnosis has led to a significant enhancement in the detection performance of biosensors and development of new biosensors. We invite you to submit a manuscript in the form of a review, full paper, or communication, with potential topics including but not limited to:

- Innovative nanomaterials and nanocomposites for biomedical applications;
- Biosensor fabrication and characterization;
- Nanobioprobe for biomedical uses;
- Thin film transistors (TFTs) and field effect transistors (FET) for biosensing;
- Biochips for biomedical testing;
- Biosafety of nanomaterials used for clinical therapy;
- Other studies of nanomaterials for biosensor and bioassay applications.

---

### Guest Editor

Prof. Dr. Ning Dai

Shanghai Institute of Technical Physics, Chinese Academy of Sciences, Shanghai 200083, China

---

### Deadline for manuscript submissions

closed (31 July 2022)



## Nanomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.4  
CiteScore 8.5  
Indexed in PubMed



[mdpi.com/si/84839](https://mdpi.com/si/84839)

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

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