

## Special Issue

# Functionalized Nanomaterials for Bioelectronic and Biomedical Applications

### Message from the Guest Editors

NanoBioTechnology is an exceptionally diverse, multidisciplinary field uncovering new knowledge and creating innovative technologies at the interface of nanoscience, engineering, and medicine. This Special Issue will aim to highlight the global research efforts that have been focused on the development of molecular and biomolecular electronic and optical systems, aiming to establish fundamental principles for the construction of optical and electronic sensors and biosensors. These scientific activities represent a leading interdisciplinary effort to bridge chemistry, biology, materials science and medicine. The focus of the articles in this issue will demonstrate how collaborative environment encourages engineers, scientist, and clinicians to pioneer new ways to solve some of the most complex challenges in healthcare and the environment. This Special Issue welcomes all submissions from studies related to functional nanomaterials used in sustainable environment, bioelectronics and personalised medical applications.

---

### Guest Editors

Prof. Dr. Wamadeva Balachandran

Centre for Electronic Systems Research, Electronic and Computer Engineering, CEDPS, Brunel University London, Kingston Lane, Uxbridge UB8 3PH, UK

Dr. Ruth MacKay

Mechanical, Aerospace and Civil Engineering, CEDPS, Brunel University London, Kingston Lane, Uxbridge UB8 3PH, UK

---

### Deadline for manuscript submissions

closed (20 March 2019)



## Nanomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.3  
CiteScore 9.2  
Indexed in PubMed



[mdpi.com/si/15045](https://mdpi.com/si/15045)

*Nanomaterials*  
Editorial Office  
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 4.3  
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)