

## Special Issue

# Microwave Technology and Nanomaterials: Synthesis and Application

### Message from the Guest Editor

The development and use of nanomaterials is one of the most active research areas. This class of materials has demonstrated a wide variety of applications ranging from biomedicine, to sensors or energy. Nanomaterial preparation procedures are generally based on conventional heating methods with long synthetic times and reagents consumption. In addition, conventional synthesis methods sometimes lead to the formation of heterogeneous materials. By contrast, the use of microwaves as an energy source appears as a strategy that allows some or all of these inconveniences to be overcome. This Special Issue “The Microwave Assisted Synthesis of Nanomaterials” will offer an overview of new advances present trends and future perspectives in the use of this kind of energy as heat source. It is open to any nanomaterial prepared using microwave in any of the synthetic steps. Materials can be 2D nanomaterials, nanoparticles, etc. Also to the reports of applications of nanomaterials prepared following microwave assisted are welcome.

---

### Guest Editor

Dr. Jose Vicente Ros-Lis

REDOLí group. Inorganic Chemistry Department. Universitat de València, 46021 Valencia, Spain

---

### Deadline for manuscript submissions

closed (5 November 2021)



## Nanomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.3  
CiteScore 9.2  
Indexed in PubMed



[mdpi.com/si/41708](https://mdpi.com/si/41708)

*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)