

## Special Issue

# New Investigations of Nanostructured Metal–Organic Frameworks

### Message from the Guest Editors

Metal–organic frameworks (MOFs) are versatile porous materials known for their high surface area, tunable porosity, and structural diversity. They have been extensively explored for applications in gas storage, separation, catalysis, sensing, and biomedicine. Recent advances in nanoscale engineering of MOFs are creating new opportunities to address global challenges in energy, healthcare, and environmental sustainability. This Special Issue will highlight cutting-edge research in this field, covering innovative methods for fabricating MOF nanostructures and hybrid composites, as well as developments in MOF-based systems for gas capture and controlled release. Contributions will also explore the role of MOFs in electrocatalysis, photocatalysis, and energy storage solutions like batteries and supercapacitors. We invite high-quality original research articles, reviews, and perspectives that enhance our understanding of nanostructured MOFs. This Special Issue aims to provide a comprehensive overview of the latest breakthroughs, inspiring further innovation and collaboration within the community.

---

### Guest Editors

Dr. Rosana Pinto

CERENA Departamento de Engenharia Química, Instituto Superior Técnico, Universidade de Lisboa, 1049-001 Lisboa, Portugal

Dr. Debanjan Chakraborty

ESPCI—École Supérieure de Physique et de Chimie Industrielles de la Ville de Paris, 75005 Paris, France

---

### Deadline for manuscript submissions

15 June 2026



## Nanomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.3  
CiteScore 10.3  
Indexed in PubMed



[mdpi.com/si/236699](https://mdpi.com/si/236699)

*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 10.3  
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)