

## Special Issue

# Nanocomposite Design for Energy-Related Applications

### Message from the Guest Editors

Research on composite nanomaterials has recently provided opportunities in a broad spectrum of novel energy-related applications; this includes energy harvesting, conversion, and storage. We invite authors to contribute comprehensive reviews and original research articles covering the most recent progress and new developments in designing advanced nanocomposites for energy-related applications. The format of welcomed articles includes full papers, communications, perspective views, and reviews. We believe this research topic will bring a broad impact and is of interest to a broad spectrum of readers in chemistry, materials, nanoscience, and energy science and technologies. The areas to be covered in this Special Issue may include, but are not limited to:

- Prediction and simulation of the properties of novel nanocomposite systems
- Structural and compositional design of nanocomposites and new synthetic methods
- Advanced characterization of nanocomposites
- Fundamental understanding of the synergy of nanocomposites
- Performance optimization of nanocomposites for energy-related applications

### Guest Editors

Dr. Hanfeng Liang

Dr. Qiu Jiang

Dr. Gang Huang

Prof. Dr. Yi-Zhou Zhang

### Deadline for manuscript submissions

closed (30 May 2023)



## Nanomaterials

an Open Access Journal  
by MDPI

Impact Factor 4.3  
CiteScore 9.2  
Indexed in PubMed



[mdpi.com/si/85128](https://mdpi.com/si/85128)

*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.

---

### 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)