



an Open Access Journal by MDPI

## Advanced Porous Nanomaterials: Synthesis, Properties, and Application

Guest Editor:

**Dr. Yannick Guari**

ICGM, Université Montpellier,  
CNRS, ENSCM, 34095 Montpellier,  
France

Deadline for manuscript  
submissions:

**closed (10 July 2024)**

### Message from the Guest Editor

Dear Colleagues,

Porous nanomaterials are defined as those with pore sizes less than 100 nm. Porous materials are of scientific and technological importance due to their excellent functional and structural characteristics. They are lightweight materials with low bulk density, high surface area, low thermal conductivity, good permeability, energy management applications, noise attenuation, vibration suppression, and other characteristics. In recent years, there has been an increasing interest and research work in the synthesis, characterization, functionalization, molecular modeling, and design of nanoporous materials. Porous nanomaterials are increasingly used in many fields, such as (bio)sensors, drug delivery, gas separation, energy storage, fuel cell technology, nanocatalysis and photonics.

This special issue aims to collect papers on new advances or breakthroughs in the design, synthesis, properties and applications of porous nanomaterials. We welcome outstanding researchers from all over the world to submit their latest, original and creative works to the journal before the submission deadline.



[mdpi.com/si/172061](https://mdpi.com/si/172061)

# Special Issue



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Shirley Chiang

Department of Physics, University  
of California Davis, One Shields  
Avenue, Davis, CA 95616-5270,  
USA

## 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.

## 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, CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (General Chemical Engineering)

## Contact Us

---

*Nanomaterials* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/nanomaterials](http://mdpi.com/journal/nanomaterials)  
[nanomaterials@mdpi.com](mailto:nanomaterials@mdpi.com)  
[X@nano\\_mdpi](https://x.com/nano_mdpi)