

Special Issue

Wet Assembly and Processing of Nanomaterials

Message from the Guest Editors

In liquid media, nanoscale building blocks—including nanoparticles, nanofibers, nanosheets, and other low-dimensional materials—can undergo complex interactions, transport, orientation, aggregation, and self-assembly. By regulating these processes through colloidal interactions, hydrodynamic forces, interfacial effects, external fields, and processing conditions, it is possible to control material organization across multiple length scales and thereby tailor the resulting structural and functional properties. We welcome original research articles, communications, and comprehensive reviews covering topics including, but not limited to, the following: Colloidal interactions, dispersion, and rheology of nanomaterials;

Self-assembly and directed assembly in liquid media; Flow-, field-, and interface-mediated organization of nanomaterials;

Wet processing, including spinning, filtration, coating, printing, and casting;

Multiscale structure formation and structure–processing–property relationships;

Scalable fabrication and functional applications of assembled nanomaterials.

Guest Editors

Prof. Dr. Zhiyuan Xiong

School of Light Industry and Engineering, South China University of Technology, Guangzhou, China

Prof. Dr. Renbo Wei

School of Chemical Engineering, Northwest University, Xi'an, China

Deadline for manuscript submissions

30 March 2027



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 10.3
Indexed in PubMed



mdpi.com/si/287968

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 4.8
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)