

Special Issue

Colloid Chemistry and Applications of Nanomaterials

Message from the Guest Editors

Colloid chemistry plays a crucial role in the understanding and application of nanomaterials, which are increasingly utilized across various fields.

Nanomaterials exhibit unique properties that arise from their small size and high surface area, making them ideal for applications in areas such as functional materials (films, coatings, and inks), food, catalysis, medicine, and the environment. The aim of this Special Issue is to compile and publish innovative research and experimental findings related to the interplays between colloid chemistry and the applications of nanomaterials.

Focus including but not limited to the following topics:

Synthesis and characterization of colloidal nanomaterials;

colloidal stability and interactions of nanomaterials;

theoretical modeling and computational studies in colloid chemistry;

applications of nanomaterials in functional materials, food, catalysis, medicine, and the environment. We look forward to your contributions that will help illuminate the vast potential of colloid chemistry in the realm of nanomaterials.

Guest Editors

Prof. Dr. Zhiyuan Xiong

Dr. Renbo Wei

Dr. Bo Tang

Deadline for manuscript submissions

closed (9 January 2026)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 10.3
Indexed in PubMed



mdpi.com/si/219690

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 4.3
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)