

Special Issue

Future and Prospects in Nanofluids Research

Message from the Guest Editors

This Special Issue will cover the synthesis, preparation, and characterization of both nanomaterials and associated nanofluids, focusing on the next-generation applications of nanomaterials with outstanding performances in terms of stability, thermophysical properties, and heat transfer behavior relevant for industrial applications. The development of new theoretical and physical models, as well as simulations closer to practical situations, are also expected. Topics to be covered by this Special Issue include, but are not limited to, the following:

- Nanomaterials and Nanofluids preparation and characterization
- Measurements and theoretical development of Nanofluid properties, Nanofluid heat transfer and Nanoparticle-enhanced phase change materials
- Experimental and theoretical analysis on nanofluid transport in porous media
- Numerical simulations relevant for potential applications
- New numerical models for estimation of nanofluids heat transfer behavior
- New innovative areas of nanofluid applications
- Critical assessments and future directions in Nanofluids research

Guest Editors

Dr. Patrice Estellé

Laboratoire de Génie Civil et Génie Mécanique (LGCGM), Université de Rennes 1, 35238 Rennes, France

Prof. Dr. Alina Adriana Minea

Faculty of Materials Science and Engineering, Gheorghe Asachi Technical University of Iasi, 700070 Iasi, Romania

Deadline for manuscript submissions

closed (30 November 2020)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/22214

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 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. 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)