

Special Issue

Thermal Properties of Nanomaterials: Fundamentals and Applications

Message from the Guest Editors

Nanomaterials research and development has been the catalyst for significant findings in a wide range of technologies, from pharmaceuticals to building materials to molecular electronics. It continues to be explored in terms of fundamental studies and applications in various scientific and technological fields. The wide scope of nanomaterials research ranges from development of new classes of materials, to manipulation of elements at atomic scales, to synthesis and characterization, and applications. Thus, this Special Issue focuses on “Thermal Properties of Nanomaterials: Fundamentals and Applications” in order to provide a dedicated platform to put forward recent ideas and findings in this particular area of research. Nanostructures play an important role in determining the physical properties of materials, including thermal properties such as thermal conductivity, melting point, heat capacity, etc. The scope of this Special Issue will cover the fundamentals, materials development, synthesis and applications relevant to nanomaterials with regards to its thermal properties.

Guest Editors

Dr. Mohd Faizul Mohd Sabri

Department of Mechanical Engineering, Universiti Malaya, Kuala Lumpur 50603, Malaysia

Prof. Dr. Md Abdul Maleque

Advanced Materials & Surface Engg. Research Unit, Faculty of Engineering, International Islamic University Malaysia, Kuala Lumpur, Malaysia

Deadline for manuscript submissions

closed (31 October 2022)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/96253

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.

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)