

Special Issue

Two-Dimensional Semiconductor Nanomaterials and Nanodevices

Message from the Guest Editor

Two-dimensional semiconductor nanomaterials and nanodevices are the subject of great attention in scientific research due to their possession of special physical and chemical properties when compared with the bulk nanomaterial. Two-dimensional semiconductor nanomaterials can be potentially used in the design of optical devices, optical sensors, and photocatalysts. Two-dimensional semiconductor heterostructures are especially interesting in terms of superlattices and interfacial charge transfer and can be manipulated by pressure, electric potential, and current, among other stimuli. In consideration of their many fascinating properties and applications, we are preparing a devoted Special Issue entitled “Two-Dimensional Semiconductor Nanomaterials and Nanodevices”, for which we are seeking submissions on topics including, but not limited to, those mentioned above

Guest Editor

Prof. Dr. Mengtao Sun

School of Mathematics and Physics, University of Science and Technology Beijing, Beijing 100083, China

Deadline for manuscript submissions

closed (20 February 2024)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/99869

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)