

Special Issue

Nanomaterials for Electronic and Photonic Applications

Message from the Guest Editors

Nanomaterials are interesting in different disciplines such as electronics, photonics, and medicine. Nanostructures can be engineered to present unique optical and photonic properties. Effects and applications include absorption, photoemission, scattering, nonlinear optics, ultrafast phenomena, photoconduction and photovoltaics, plasmonics, and lasing. Electronics are the introduction of vertical MOSFETs as well as the development of new tunneling, high-electron-mobility, and single-electron devices. Available applications for nanomaterials include wireless sensors, wide-bandgap semiconductors, superconductors, supercapacitors, medicine, magnetic materials, thin films, photovoltaic materials, and flexible biomaterials. The goal of the present Special Issue is to attract academic and industrial researchers to further improve the properties of nanomaterials and propose new ideas for future applications and new technologies through continuous in-depth research on existing photonic and electronic nanocomposites. We invite authors to contribute original research articles and review articles covering the current progress on these materials.

Guest Editors

Dr. Wencheng Lai

Prof. Dr. Hao-Chung Kuo

Prof. Dr. Donghui Guo

Prof. Dr. Yankuin Su

Prof. Dr. Celia Shahnaz

Deadline for manuscript submissions

closed (31 March 2023)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/130514

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)