

Special Issue

Nano-Electrodes for High-Performance Supercapacitors

Message from the Guest Editor

Supercapacitors are one of the important energy storage devices that bridge the gap between traditional capacitors and batteries. Supercapacitors offer high power density, fast charging and discharging rates, and long cycle life, making them ideal for applications in electronic devices, electric vehicles, medical equipment, and portable electronics. Nano-electrodes, fabricated from nanostructured materials, play a crucial role in developing high-performance supercapacitors. Nano-electrodes offer an increased surface area compared to conventional electrodes, providing a high density of active sites for electrochemical reactions. This Special Issue offers a platform for researchers to share advancements in nano-electrodes for high-performance supercapacitors. We sincerely invite researchers and experts to contribute to this Special Issue with communications, full research articles, and reviews focusing on novel developments of nano-electrodes for supercapacitors, as well as storage mechanism analysis. You can submit your paper at the following link: <https://www.mdpi.com/si/201830>

Guest Editor

Prof. Dr. Lin Mei

State Key Laboratory of Powder Metallurgy, Central South University, Changsha 410083, China

Deadline for manuscript submissions

closed (20 November 2024)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 10.3
Indexed in PubMed



[mdpi.com/si/201830](https://www.mdpi.com/si/201830)

Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

[mdpi.com/journal/
nanomaterials](https://www.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)