

## 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

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### Deadline for manuscript submissions

closed (20 November 2024)



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## 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.

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### Editor-in-Chief

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