

Special Issue

Nanostructured Materials for Next-Generation Energy Technologies

Message from the Guest Editors

This Special Issue presents key research from the Materials for Energy Storage and Conversion conference. It brings together leading experts working on advanced materials for sustainable energy. Topics include batteries, supercapacitors, hydrogen production and storage, fuel cells, solar cells, and catalysts for energy conversion. Special attention is given to new synthesis methods, advanced characterization, computational modeling, and device integration. By highlighting both fundamental science and practical applications, the issue aims to encourage collaboration and accelerate the development of efficient, scalable, and eco-friendly energy solutions for a low-carbon future.

The issue will also feature high-impact papers from [10th International Symposium on Materials for Energy Storage and Conversion \(mESC-IS 2026\), Belgrade, Serbia, 25th–28th of May, 2026](#)

We invite scholars and experts to submit their recent findings and to contribute to this exciting Special Issue, which pushes the frontiers of energy storage and conversion and related fields.

Guest Editors

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Deadline for manuscript submissions

30 November 2026



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 10.3
Indexed in PubMed



mdpi.com/si/280491

Nanomaterials
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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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