Special Issue

Nano- and Micro-Scale Innovative Materials and Development: Selected Papers from the 6th International Micro-Nanotechnology Innovation and Development Forum (6-IMNIDF)

Message from the Guest Editors

The International Micro-Nanotechnology Innovation and Development Forum (IMNIDF) is a fantastic event for global academic researchers, industrial partners and policy makers to share their latest progress and exciting breakthroughs on the topics of nanotechnology, nanostructured materials, nano- and microscale innovative materials. The conference has a history of nearly ten years, and was first held in Xi'an China in 2019. Since then, the conference has been held every year in different cities in China, such as Zhengzhou (2024), Zhengzhou (2022), and Xi'an (2019). Xi'an has been selected to host the 6th IMNIDF once again in 2025. This Special Issue will contain the accepted papers presented at 6th IMNIDF in Xi'an, China, including those that cover nano- and microscale textile materials, metallic materials, energy materials, functional materials, catalytic materials, intelligent sensing materials, carbon materials, biomaterials, and interdisciplinary integration technology. The submission of contributions on the advanced nanomaterials from the viewpoint of experiment and simulation aspects, including research papers, reviews, and short communications are encouraged.

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Deadline for manuscript submissions

closed (20 February 2026)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/248619

Nanomaterials
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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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