

## Special Issue

# The Future of Nanotechnology: Healthcare and Manufacturing

### Message from the Guest Editors

In the ever-evolving landscape of modern technology that is currently led by AI and robotics, the understanding and integration of nanomaterials holds immense promise for revolutionizing both manufacturing and healthcare sectors. The Special Issue **“The Future of Nanotechnology: Healthcare and Manufacturing”** aims to explore the potential of nanomaterials in these crucial domains. Topics of interest include, but are not limited to:

- Advanced synthesis, (self) assembly, and advanced manufacturing techniques; AI or nanomaterials enhanced 3D printing and design.
- Advanced or automated characterization, theory, simulation, robotics.
- Applications of nanomaterials in biomedical devices and diagnostics.
- Wearable devices, off- and on-body sensors for real-time health monitoring and diagnostics.
- AI algorithms for smart manufacturing processes and healthcare management systems.

Researchers from diverse disciplines are invited to contribute original research articles, reviews, and perspectives that explore the interdisciplinary nature of nanomaterial applications in shaping the future of manufacturing and healthcare.

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### Guest Editors

Dr. Jihua Chen

Dr. Zihao Ou

Dr. Kaidong Song

Prof. Dr. Seungpyo Hong

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### Deadline for manuscript submissions

19 December 2025



## Nanomaterials

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Impact Factor 4.3  
CiteScore 9.2  
Indexed in PubMed



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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.

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### Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

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