

## Special Issue

# Nanostructured Materials for Biomedical and Environmental Applications

### Message from the Guest Editor

This Special Issue aims to present the latest advances in the synthesis, characterisation, functionalisation, interfaces, and applications of nanostructured materials for biomedical and environmental technologies. We welcome original research articles and comprehensive reviews that investigate the relationships between material design, interfacial properties, biological and environmental interactions, and application performance.

- Synthesis and scalable manufacturing of nanostructured materials;
- Carbon dots, graphene, quantum dots, and metal and metal oxide nanomaterials;
- Heteroatom-doped and hybrid nanomaterials;
- Surface functionalisation and interface engineering;
- Nano-bio and nano-environment interactions;
- Drug delivery, bioimaging, biosensing, and tissue engineering;
- Antibacterial and antimicrobial nanomaterials;
- Catalytic nanomaterials, photocatalysis, and electrocatalysis;
- Water purification, wastewater treatment, and pollutant remediation;
- Environmental protection;
- Sustainable and bio-derived nanomaterials;
- Circular economy, waste valorisation, and resource recovery;
- Emerging technologies for clinical and environmental translation.

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### Guest Editor

Dr. Hong Yin

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### Deadline for manuscript submissions

5 April 2027



## 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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### Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

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