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Nanomaterials in Analytical Methods for Biomedical, Environmental, and Energy Applications

Guest Editor:

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Deadline for manuscript
submissions:
closed (8 August 2025)

Message from the Guest Editor

For this Special Issue, we invite manuscripts dealing with nanomaterials in the following topics:

- developing new methods that lead to the identification and quantification of very small amounts of analyte, but also how to deal with complex matrices such as food, biological, or environmental samples;
- tailoring functional nanostructured materials and molecular structures for analytical applications ranging from research to medical, food, and environmental monitoring in civil and military engineering and energy engineering.

We encourage colleagues to share their scientific achievements in original research covering the development, evaluation, simulation, and use of various nanoplatforms, with promising applications in biomedical engineering, biopharmaceutical engineering, bioprocess engineering, synthetic biology, tissue engineering, regenerative medicine, environmental biotechnology, as well as food and agricultural engineering, civil and military engineering, but also the production, consumption, and storage of energy.

--20%/50%/100% discount will apply for submissions from conference participants (please express your interest and share your manuscript outline with us).



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Special Issue



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Editor-in-Chief

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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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