

## Special Issue

# Cytotoxicity Evaluation and Antibacterial Activity of Nanoscale Materials

### Message from the Guest Editors

For several years, nanoparticles and nanomaterials have been attracting growing interest across many fields, ranging from fundamental research to applications in industry, such as in catalysis, imaging, energy, and electronics, as well as in the environmental and pharmaceutical and biomedical fields. With the properties of nanoparticles and nanomaterials being intimately linked to their shape and size, they often differ significantly from those of larger particles, including for particles produced from the same basic element. Thus, in some cases, their properties can be “beneficial”, while, in others, there are certain effects that can be considered “toxic”. The question is whether these toxic effects concern humans or other species, such as microorganisms. The objective of this Special Issue is to highlight recent advances in the research on nanoparticles and nanomaterials related to the evaluation of the cytotoxicity of nanoscale materials, as well as their antimicrobial properties (antibacterial, antifungal, etc.). This Special Issue may include the assessment of cytotoxicity and antimicrobial properties of materials.

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### Guest Editors

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### Deadline for manuscript submissions

closed (20 November 2024)



## 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

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