# **Special Issue**

# Nanomaterials for Bioapplications: Chemical Stability and Biosafety

### Message from the Guest Editors

Engineered nanomaterials are being investigated due to their increasing biological applications, including drug and gene delivery, biosensors, cancer treatment, and diagnostic tools. Nanoparticles interact with biologic systems leading to their distribution, elimination, metabolism, and aggregation. In this context, the stability and biosafety of nanomaterials are important aspects that need to be monitored for their successful biomedical application. The present Special Issue of Nanomaterials aims to present the current state-of-theart developments of the use of nanomaterial for biomedical applications including therapy, imaging, diagnosis, theranostics, biosensing, and tissue engineering. Moreover, we also expect to provide new insights into the understanding of the contribution of surface chemistry to the stability, dissolution behavior, cytotoxicity, biodistribution, and biodegradation. We invite authors to contribute original research articles, reviews, and short communications covering current progress in the use of nanomaterials for bioapplications.

### **Guest Editors**

Dr. Helena Oliveira

Department of Biology, CESAM—Centre for Environmental and Marine Studies, University of Aveiro, 3810-193 Aveiro, Portugal

Dr. Verónica Bastos

Centre for Environmental and Marine Studies, Department of Biology, University of Aveiro, 3810-193 Aveiro, Portugal

### Deadline for manuscript submissions

closed (31 December 2023)



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Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

mdpi.com/journal/ 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 nanometerscale 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.

### **Editor-in-Chief**

Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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