# Special Issue

# Sustainability, Ecotoxicology and Biocompatibility of Engineered Nanostructures

## Message from the Guest Editor

Engineered nanomaterials (NMs) comprise NMs that have undergone physical–chemical modification to fulfill a specific action for which none are naturally present in the environment. Nowadays, NMs are produced and deliberately introduced into the environment on a massive scale. This spotlights the need to study the effects of engineered NMs on organisms and ecosystems, as well as on the evaluation of the environmental impact of their manufacturing processes. The aim of this Special Issue is to highlight the latest studies dedicated to the assessment of the sustainability, eco-toxicity and biocompatibility of NMs and of their production processes. Works related to the following research areas are welcome: (i) the production of new eco-compatible engineered NMs able to replace potentially harmful ones; (ii) NM production routes from circular economy sources; (iii) the evaluation of NM environmental footprint by LCA. Please see more details at the following link: https://www.mdpi.com/si/177178


## Guest Editor

Dr. Alessio Adamiano

Institute of Science and Technology for Ceramic, National Research Council, Faenza, Italy


## Deadline for manuscript submissions

closed (10 January 2024)


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Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/177178

*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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# 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.

## 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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