

Special Issue

Impact of Nanomaterials in Biological Systems and Applications in Nanomedicine Field

Message from the Guest Editors

This Special Issue focuses on the interaction between nanoparticles, characterized by different physico-chemical properties, and biological systems, both in vitro and in vivo. The effects of nanomaterials range from oxidative stress activation to immune response inducing alterations on morphology and the mechanic behaviour of living cells. Studies dealing with these interactions are of particular importance towards the development of new strategies for diseases treatment, especially cancer. In this scenario, nanomedicine is a new interdisciplinary branch of science, leading to the development of novel tools for therapy and diagnosis, these activities promote unexpected new results in research groups engaged in the development of novel nanomaterials, taking into account the nanotoxicity of nanovectors. The publication of original articles will contribute to the scientific progress in the area of “customized” nanomedicine concerning immune response and morphological alterations induced by NPs. The careful analysis of experimental evidences can put the basis for the further uses of such new nano-tools in clinical praxis.

Guest Editors

Prof. Dr. Stefano Loporatti

Dr. Valeria De Matteis

Dr. Mariafrancesca Cascione

Deadline for manuscript submissions

closed (30 September 2021)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/30178

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

[mdpi.com/journal/
nanomaterials](https://mdpi.com/journal/nanomaterials)





Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



[mdpi.com/journal/
nanomaterials](https://mdpi.com/journal/nanomaterials)



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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPIus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General
Chemical Engineering)