Special Issue

Nanomaterials for Biological Applications: Innovative Strategies from Theranostic Approaches to Regenerative Medicine

Message from the Guest Editors

The biomedical field represent one of the most dynamic areas of nanomaterial development and evolution. Some examples of biomedical applications of these cutting-edge solutions are represented as follows: fluorescent biological labelling, drug and gene delivery, and the thermal ablation of cancer tissues, cosmetics, tissue engineering, and regenerative medicine fields. The main goal of this Special Issue is to provide an updated perspective on nanomaterials to support biological interactions. The potential topics of interest about nanomaterials are as follows: Novel synthetic approaches;
Characterization techniques;
Nanomaterial applications;
Therapeutic and theranostic approaches;
Biosensors. We encourage contributions from colleagues with different backgrounds (i.e., biologists, medical researchers, researchers from the cosmetic industry, chemists, etc.) to provide the readers with a complete overview of the most recent advancements in the exciting field of nanomaterials for biological applications.

Guest Editors

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Deadline for manuscript submissions

16 January 2026

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/202325

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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.

Editor-in-Chief

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