

Special Issue

Advances in Natural and Bio-Inspired Nanoparticles for the Treatment of Cardiovascular Diseases

Message from the Guest Editors

Cardiovascular diseases are a major cause of disability and death worldwide. Despite substantial improvements achieved in the treatment of these diseases, there is still an essential need for drug innovation. With this aim, a large number of therapeutic options have been developed for the management of cardiovascular diseases. In the cardiovascular field, special attention is given to bioinspired nanomedicine as a novel drug delivery platform to enhance drug biocompatibility, ameliorate pharmacokinetics, and avoid the rapid clearance of the drug. Most natural and bio-inspired nanosystems are cell-derived (e.g., erythrocytes, platelets), extracellular vesicles, viruses or bacteria, proteins (e.g., albumin), and synthetic HDL. The present Special Issue aims to present comprehensive research outlining the progress in applying bio-inspired nanosystems to improve therapy or diagnosis in the cardiovascular field. The types of manuscripts accepted are full papers, short communications, reviews, points of view, and methodological articles.

Guest Editors

Prof. Dr. Mariana Varna-Pannerec
Dr. Ilie C. Gebeshuber
Dr. Manuela Calin

Deadline for manuscript submissions

closed (1 December 2023)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/142065

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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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)