# **Special Issue**

# Nanostructured Materials and Coatings for Biomedical Applications

## Message from the Guest Editors

Nanotechnology represents a new frontier in the biomedical field regarding the development of novel materials and devices, as well as in diagnosis and imaging techniques. At the nanometric scales, some materials show distinct properties and functionalities that can be exploited for many different biomedical applications, including the development of nanostructured scaffolds for tissue engineering, nanosystems for the delivery of drugs and bioactive molecules, nanometric coatings with antimicrobial properties and improved bioactivity for specific medical purposes. In this regard, this Special Issue aims at collecting the most recent progress in the development of nanotechnology-based approaches for providing new therapeutic options and new effective tools for treating specific diseases, with a special focus on the development of nanostructured materials and coatings and their mechanisms of interaction with the biological world.

### **Guest Editors**

Dr. Federica Paladini

Department of Experimental Medicine, University of Salento, Via per Monteroni, 73100 Lecce, Italy

Dr. Carola Esposito Corcione

Department of Innovation Engineering, University of Salento, Via per Monteroni, 73100 Lecce, Italy

## Deadline for manuscript submissions

10 April 2025



# **Nanomaterials**

an Open Access Journal by MDPI

Impact Factor 4.4
CiteScore 8.5
Indexed in PubMed



mdpi.com/si/215301

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

mdpi.com/journal/ nanomaterials





## **Nanomaterials**

an Open Access Journal by MDPI

Impact Factor 4.4 CiteScore 8.5 Indexed in PubMed



## 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 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

### **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, CAPlus / SciFinder, Inspec, and other databases.

## Journal Rank:

JCR - Q2 (Chemistry, Multidisciplinary) / CiteScore - Q1 (General Chemical Engineering)

