Special Issue

Nanoparticles for Bio-Medical Applications

Message from the Guest Editors

The application of nanotechnology in many different biomedical fields is expected to revolutionize the biotechnological and pharmaceutical industries and enhance the life quality of patients in the near future. In this regard, much effort has been put into designing different types of organic, inorganic and hybrid nanoparticles for tissue engineering, treating infectious diseases, cancer treatments, etc. This Special Issue will collect research papers, reviews and communications on the different biomedical applications of nanoparticles (anticancer and antibacterial drug delivery, bone regeneration, sensing, bioimaging, etc.). In addition, research on overcoming the different biological barriers that nanoparticles face in the organism as well as the interaction of nanoparticles with the surrounding media will be welcomed. See more information in https://www.mdpi.com/si/61210

Guest Editors

Prof. Dr. María Vallet-Regí

CIBER-BBN and Department of Chemistry in Pharmaceutical Sciences, Universidad Complutense de Madrid (UCM), Av. Séneca, 2, 28040 Madrid, Spain

Dr. Miguel Gisbert-Garzarán

CIBER-BBN and Department of Chemistry in Pharmaceutical Sciences, Universidad Complutense de Madrid (UCM), Av. Séneca, 2, 28040 Madrid, Spain

Deadline for manuscript submissions

closed (15 November 2021)



Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3 CiteScore 9.2 Indexed in PubMed



mdpi.com/si/61210

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

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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 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. 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

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