Special Issue

Design, Development, and Production of Nanocarriers and Nanovehicles

Message from the Guest Editors

The bottom-up approach, used by living systems to build up large complex structures from relatively small biological components, constitutes one of the most important strategies that currently drives nanotechnology. In this context, the manipulation of the physico-chemical properties of biomolecules and biomaterials amenable to self-assembly at the nanoscale, is used to develop nanocontainers with the ability to efficiently integrate and load proteins, drugs and genetic material for biomedical purposes. The symposium on "Design, Development and Production of Nanocarriers and Nanovehicles," organized by the "Spanish Nanobiocargo Consortium," aims to enable these nanobiotechnological developments in structural biology, biophysics, chemical synthesis, materials physics, or molecular and cellular biology. The purpose of this Special Issue seeks to address recent achievements in the preparation, characterization and application of nanocontainers, and exciting new developments in related aspects of nanobiotechnology, including future prospects and biomedical challenges.

Guest Editors

Dr. Andrés Guerrero-Martínez

Departamento de Química Física, Facultad de Ciencias Químicas, Universidad Complutense de Madrid, 28040 Madrid, Spain

Dr. José M. Valpuesta

Departamento de Estructura de Macromoléculas, Centro Nacional de Biotecnología, Madrid, Spain

Deadline for manuscript submissions

closed (30 April 2021)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/45237

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

mdpi.com/journal/nanomaterials

MDPI

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/journal/nanomaterials

MDPI

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, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

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