

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.

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

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