

Special Issue

Nanocarriers and Drug Delivery

Message from the Guest Editor

Nanotechnology is helping to considerably improve, even revolutionize, many technology and industry sectors, including medicine, pharmacology, information technology, energy, food safety, and environmental science. With the advances in nanotechnology, nanocarriers have been extensively investigated for biomedical applications in medical imaging, disease diagnosis, and in particular in drug delivery as they enable to improve the drug bioavailability, and to reduce the dosing frequency and side effects. The aim of this Special Issue is to aim to provide an overview of the state of the art in this domain, highlighting the continuing efforts to design, synthesize, and apply nanomaterials as nanocarriers in drug delivery, especially in cancer therapy. We welcome contributions regarding the synthesis and characterization of nanomaterials, formulation of nanocarriers (nanoparticles, micelles, nanogels, polymersomes, etc.), in vitro and in vivo drug release, and in-depth understanding of the mechanisms governing drug loading and drug release of nanocarriers.

Guest Editor

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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.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

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