Special Issue

Multifunctional Nanocarriers for Drug Delivery

Message from the Guest Editor

Nanosized drug carriers, often referred to as nanosystems, or simply nanocarriers, have long been explored to facilitate the delivery of associated drugs to a specific desired location and several nanotechnology-based medicines are currently on the market. Nanocarriers can be used to simply protect drugs and improve their bioavailability. However, recent advances in materials science, and also in basic knowledge of pathophysiology, are strongly contributing to the development of more sophisticated systems. Simultaneously, particle engineering has become an enabling technology towards potentiating multifunctional abilities. In this context, nanocarriers may become stimuli-responsive, be endowed with targeting capacity, or provide simultaneous delivery of multiple drugs. This Special Issue aims to provide an overview of recent research advances in nanocarriers that integrate diverse functionalities, thus achieving effective synergistic therapeutic outcomes and improving drug delivery as a whole. As , I cordially invite contributions in form of original research articles or reviews on this exciting research field.

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.

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