Special Issue

Synthesis and Design of Polymer Nanocarriers for Bioactive Compounds, Nutraceutical and Drug Delivery Systems

Message from the Guest Editors

Within nanotechnology, nanoencapsulation is a strategy developed in recent years for the protection of food ingredients, nutraceuticals, bioactive compounds and drugs. For several years now, different nanocarriers have been developed to contain these molecules and are mainly obtained from synthetic or natural polymers. The design of composite nanocarriers has also been developed and is on the rise, with the aim of improving the properties of the protection and release of molecules. Delivery systems for bioactive compounds, nutraceuticals, and drugs in the health area have multiple benefits, such as being more bioavailable and dosed at the site of action. In food, the objective is that the molecules contained in nanocarriers are available to increase its useful life through its antioxidant and antimicrobial potential. Therefore, the objective of this Special Issue is to publish high-quality articles based on the development of research that focuses on the design of polymer nanocarriers, giving emphasis to new biopolymers as raw materials and that contain bioactive compounds, nutraceuticals or drugs.

Guest Editors

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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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