Special Issue

Nanoparticles in Drug Delivery Applications

Message from the Guest Editors

There has been growing interest in employing nanotechnology to tackle a wide range of challenges in the field of drug delivery. Nanoparticles have been widely used to enhance drug solubility or/and stability, drug targeting and/or reduce toxicity and side effects. Many nano-based drug delivery systems have found their way to clinics and have been successfully used in the fields of cancer treatment, vaccinations, infectious diseases and ocular diseases. In addition, there have been unprecedented developments in the areas of manufacturing and scaling-up technologies for pharmaceutical nano-formulations. However, there are still numerous challenges in the "nano" research journey from "bench" to "bedside", such as reproducibility, efficient encapsulation, economic and green scaling-up technologies, safety and biocompatibility. This Special Issue will shed light on the current advances in using nanoparticles as a drug delivery system with a specific focus on the innovative approaches for nano-fabrications, physical and biological evaluations of the manufactured systems and recent development in scaling-up technologies.

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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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