Special Issue

Advanced Nanocarriers for Enhanced Drug Safety, Stability, Bioavailability, and Therapeutic Effects

Message from the Guest Editor

Over the past few decades, a broad range of nanocarriers have been developed for the delivery of drugs in an effort to increase their solubility, absorption, bioavailability, stability, and therapeutic effects. Nanocarriers have been successfully used for various drug delivery applications. Despite the advancement of nanomedicines in recent years, there is still a need to develop more of them to improve drug safety, stability, and therapeutic effects on different diseases. Alongside the bioavailability and therapeutic effects addressed in many studies, safety and stability are two critical aspects of nanocarriers that require in-depth investigation in preclinical studies. In this Special Issue, we welcome reviews and original research on developing and characterizing nanocarriers for drug delivery, primarily focusing on improving drug safety, stability, bioavailability, and therapeutic effects. This includes, but is not limited to, the development and applications of nanocarriers for enhancing bioavailability and the treatment of various diseases; and comprehensive reviews of drug, protein, or gene delivery advances using different types of nanocarriers.

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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