

Special Issue

Innovative Drug Delivery Systems: From Nanotechnology to Smart Devices

Message from the Guest Editors

The effective delivery of poorly soluble therapeutic molecules, as well as modern pharmaceutical macromolecules, is a critical challenge. Traditional drug delivery systems often face significant obstacles for these types of drugs, such as inadequate dissolution, rapid degradation, and limited absorption, leading to poor bioavailability. These limitations can reduce the efficacy of drugs and require higher doses that may lead to adverse side effects. Recent advances in drug delivery systems have expanded beyond conventional particles and encapsulation methods. The development of smart nanoformulations, advanced materials, and ingestible devices has opened up new opportunities to enhance drug stability, optimize drug release profiles, and improve bioavailability.

This Special Issue aims to highlight the latest advances in this field, showcasing studies on novel nanoformulations, multifunctional platforms, and smart ingestible devices with controlled drug release profiles. I invite contributions that explore both established and emerging technologies, address key challenges, and provide experimental or theoretical insights into advanced drug delivery systems.

Guest Editors

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