

Special Issue

Innovations in Nanomedicine and Polymeric Drug Delivery

Message from the Guest Editor

Nanomedicine and polymeric drug delivery systems have transformed the landscape of modern therapeutics by offering versatile strategies to improve drug stability, bioavailability, targeting, and controlled release. Advances in materials science, nanotechnology, and pharmaceutical engineering have enabled the design of lipid-based carriers, polymeric micelles, hydrogels, nanoparticles, and hybrid platforms that can deliver small molecules, biologics, and nucleic acids with unprecedented precision. Beyond their capacity to enhance pharmacokinetics and biodistribution, these systems provide opportunities to overcome biological barriers, reduce systemic toxicity, and enable patient-tailored therapies.

This Special Issue will highlight recent innovations at the interface of nanotechnology, polymer science, and medicine. Topics of interest include the development of novel nanocarriers, polymeric, lipid-based and hybrid drug delivery systems, targeted and stimuli-responsive therapeutics, advances in gene delivery, computational modeling of nanomedicine, and studies addressing the nano–bio interface and pharmacokinetics.

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