

Special Issue

Current Research on Polymeric Nanoparticles for Drug Delivery Applications

Message from the Guest Editors

Polymeric nanoparticles are colloidal nanostructures capable of carrying and delivering diagnostic and therapeutic molecules with various physicochemical properties. These nanoparticles, made from natural or synthetic polymers, are widely used in drug delivery for anticancer agents, vaccines, antibiotics, nucleic acids, and other bioactive molecules. Polymeric nanoparticles alter the pharmacokinetics of loaded drugs and can be tailored for site-specific release. They are stable in circulation and can be modified for active targeting. Additionally, Polymeric nanoparticles can be administered through different routes, including intravenous and transdermal delivery. This Special Issue focuses on current research in the design, development, and characterization of Polymeric nanoparticles, their targeting capabilities, and their biological testing. It aims to publish manuscripts in areas such as pharmaceutical formulations; controlled-release systems for drugs, vaccines, and biopharmaceuticals; pharmaceutical process engineering, biotechnology, and nanotechnology; and the intersection of devices, cells, molecular biology, materials science, and drug delivery.

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