

Special Issue

Advanced Nanocarriers for Targeted Drug Delivery in Inflammation-Associated Diseases

Message from the Guest Editors

Chronic inflammation is a defining feature of many debilitating diseases, including autoimmune disorders, infectious diseases, neurodegenerative conditions, and cancer. The complexity of the inflammatory microenvironment and the presence of biological barriers present significant challenges to effective treatment. In recent years, however, advanced nanocarrier systems have emerged as a powerful tool for overcoming these limitations by enabling precise drug delivery to inflamed tissues while minimizing systemic side effects.

This Special Issue aims to showcase the latest developments in the design, characterization and application of nanocarriers engineered for targeted drug delivery in inflammation-associated diseases. The emphasis will be on innovative strategies to improve selectivity, enhance pharmacokinetics and enable controlled drug release in response to inflammatory signals. Examples include polymeric nanoparticles, liposomes, dendrimers, micelles and stimuli-responsive systems that exploit the unique pathophysiological features of inflamed tissues.

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