

Special Issue

Design of Hydrogels for Drug Delivery

Message from the Guest Editors

Hydrogels have garnered significant attention in the field of drug delivery due to their remarkable properties and versatile applications. Composed primarily of water, hydrogels exhibit a high degree of biocompatibility and can mimic natural tissue environments, making them ideal for biomedical applications. Their porous structure allows the encapsulation of a variety of therapeutic agents, from small molecules to large proteins and nucleic acids, facilitating controlled and sustained release over extended periods. Therefore, this Special Issue will focus on the theoretical and experimental aspects of the design of hydrogels for drug delivery systems. We aim to gather cutting-edge research that delves into the rational design, modelling, and simulation of hydrogel behaviours, as well as experimental studies that explore novel hydrogel formulations and their drug delivery applications. Submissions that detail fabrication techniques, drug release kinetics, and the biocompatibility of these systems are particularly encouraged.

Guest Editors

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