



Gels

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Special Issue Reprint

Hydrogel for Sustained Delivery of Therapeutic Agents (2nd Edition)

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Polymer hydrogels are promising materials for the controlled release of drugs and therapeutic agents due to their ability to embed biologically active agents in 3D water-swollen networks. The latest advancements in natural biomaterials, polymer chemistry, and bioengineering have facilitated numerous developments in the use of hydrogels for the sustained delivery of therapeutic agents. In light of these developments, the following Special Issue focuses on the state of the art in hydrogels, focusing on a range of exciting subjects, including cross-linking methods, stimuli-responsive hydrogels, multicomponent hydrogels, aerogels, and the release of therapeutic agents from 3D-printed hydrogels. The published papers also highlight the challenges that have been overcome through advancements in the fields of biodegradable, biocompatible, and temperature- and pH-stimuli-responsive hydrogels, in addition to interactions between hydrogels and therapeutic agents.

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