



Modification of Hydrogels and Their Applications in Biomedical Engineering

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Message from the Guest Editors

Dear Colleagues,

It is widely known that hydrogels are hydrophilic polymer networks that represent an important class of biomaterials in biotechnology and medicine due to their excellent biocompatibility with minimal inflammatory responses and tissue damage. Currently, different hydrogels have been widely used as bioscaffolds to mimic the structure and properties of tissues.

However, single-component hydrogels usually do not meet the basic requirements of tissue engineering. The synthetic polymer hydrogels have excellent mechanical properties, but their biological properties are often poor, which is not conducive to the adhesion and growth of cells. The natural polymers have unique biological properties, but their mechanical properties are often unsatisfactory. To promote the application of hydrogels in the biomedical field, improving the properties of hydrogels is necessary.

This Special Issue focuses on the modification of hydrogels and their properties for different biomedical applications.

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Message from the Editor-in-Chief

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