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Multifunctional Hydrogels for Controlled Drug Delivery

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Multifunctional hydrogels have shown great potential as drug delivery platforms due to their unique properties, such as their high water content, biocompatibility, and adjustable mechanical strength. These hydrogels can be designed to respond to various external stimuli (such as temperature, pH, and light), allowing for controlled and targeted drug release. Additionally, multifunctional hydrogels can enhance therapeutic effects by loading multiple drugs, providing sustained release and protecting drug activity.

In recent years, significant progress has been made in the intelligent and functional design of hydrogels, showing broad application prospects in fields such as cancer treatment, chronic disease management, and tissue engineering. The diverse applications of hydrogels not only improve treatment effectiveness and precision but also reduce drug side effects and increase patient compliance. Therefore, multifunctional hydrogels are expected to play an increasingly important role in the future of medicine.

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Message from the Editor-in-Chief

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