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## Preparation, Application and Performance Improvement of Hydrogel

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### Message from the Guest Editors

Dear Colleagues,

Hydrogels, three-dimensional networks capable of absorbing a significant amount of water, have emerged as a versatile material with growing applications in various scientific fields. This Special Issue aims to showcase cutting-edge research that advances the development, characterization, and application of hydrogels. Research on hydrogels has a rich history, with significant advancements in polymer design, crosslinking strategies, and functionalization techniques over past decades. Recent progress highlights the development of stimulus-responsive hydrogels, hydrogels with tailored functionalities, and *in silico* modeling approaches for optimizing hydrogel properties. This Special Issue seeks original research papers that explore novel strategies for hydrogel preparation, address performance limitations, and demonstrate innovative applications in drug delivery, tissue engineering, environmental remediation, and other areas.

We look forward to receiving your high-quality manuscripts that contribute to the advancement of hydrogel research.





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## Message from the Editor-in-Chief

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