

## Special Issue

# Advanced Hydrogels for Biomedical Application

### Message from the Guest Editors

Hydrogels have experienced remarkable advances in biomedical applications, owing to their unique properties that mimic human tissue characteristics. These three-dimensional, water-swollen networks exhibit high biocompatibility and tuneable mechanical properties, making them ideal candidates for drug delivery systems, wound-healing scaffolds, and tissue engineering platforms. Recent innovations encompass the development of stimuli-responsive hydrogels, capable of controlled drug release in response to specific cues, such as pH or temperature changes. Furthermore, the integration of hydrogels with bioactive molecules and cells has enabled the creation of sophisticated constructs for regenerative medicine, providing a promising avenue to address a wide array of medical challenges.

### Guest Editors

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## Polymers

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Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.9.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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