

## Special Issue

# Recent Advances in Hydrogel-Based Biomaterials

### Message from the Guest Editors

Hydrogels have been broadly used as biomaterials, and selected for biomedical engineering applications, such as 3D bioprinting, due to its similarities to the natural extracellular matrix that enables cellular functions such as cell proliferation and differentiation. The applications of hydrogels include tissue engineering, regenerative medicine, and drug screening. This Special Issue, "Hydrogels for Biomaterials Application", aims to collect any recent studies ranging from the discovery/synthesis of novel hydrogels, characterizations of functional hydrogel-based biomaterials' tunable properties, and various innovational biomedical applications of existing hydrogels. Review papers and perspectives that summarize state-of-the-art applications of hydrogels and the future perspectives of hydrogels are also welcome. We look forward to facilitating the advances in materials science and seeing the broader impact of the utilization of hydrogels in new fields such as tissue engineering.

### Guest Editors

Dr. Changxue Xu

Dr. Heqi Xu

Dr. Yang Li

### Deadline for manuscript submissions

closed (31 December 2023)



## Gels

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## About the Journal

### Message from the Editor-in-Chief

*Gels* (ISSN 2310-2861) is recently established international, open access journal on physical and chemical gel-based materials. The journal aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. General topics include but not limited to synthesis, characterization and applications of new organogels, hydrogels and ionic gels made either from low molecular weight compounds or polymers, composite and hybrid materials where a metal is by some means incorporated into the gel network, and computational studies of these materials in order to provide a better understanding of gelation mechanism. We cordially invite you to consider publishing with us and contribute with your own grain of sand to the advance in this fascinating field.

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### Editor-in-Chief

Prof. Dr. Esmail Jabbari

Biomimetic Materials and Tissue Engineering Laboratory, Department of Chemical Engineering, University of South Carolina, Columbia, SC 29208, USA

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#### Journal Rank:

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 12.5 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).