Special Issue

Advances in the 3D Bioprinting of Hydrogels

Message from the Guest Editor

The 3D bioprinting of hydrogels has gained significant attention in recent years due to its potential in revolutionizing organ replacement and drug discovery. Despite the challenges in achieving fully functionalized tissue constructs, recent advances in new bioinks and novel printing methods have brought us closer to this goal. These advancements have significantly enhanced printability, fidelity, and bio-functionality.

In this Special Issue of Gels, we aim to provide a platform for showcasing and discussing the latest developments in the rapidly evolving field of 3D bioprinting. This Special Issue will cover a broad range of topics, including (but not limited to) the following:

Emerging chemistries;
Hydrogel bioink design;
Novel bioprinting methods;
Biofunctions in printed constructs;
Applications of 3D bioprinted constructs.

We invite researchers and experts to contribute their original research articles and reviews to this Special Issue.

Guest Editor

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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.

Editor-in-Chief

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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).