

Special Issue

Biopolymeric Hydrogels for Drug Delivery and Tissue Regeneration

Message from the Guest Editors

This Special Issue, “Biopolymeric Hydrogels for Drug Delivery and Tissue Regeneration”, will showcase a broad spectrum of research studies on topics from novel hydrogel formulations designed to deliver drugs directly to tumor sites to the promotion of faster and more efficient wound healing and the provision of scaffolding for tissue regeneration. This Special Issue will also highlight recent advancements in hydrogel 3D printing and its potential use for creating tissue scaffolds that can accelerate healing and improve clinical outcomes. We hope to provide a comprehensive platform for researchers to share their advancements in the development of novel biopolymeric hydrogel formulations for targeted drug delivery, tissue engineering, and associated biomedical applications. Topics of interest include, but not limited to, the following:

- The design of smart hydrogels;
- Advancements in the characterization of hydrogels;
- Hydrogel applications in drug delivery;
- Hydrogels in wound healing and tissue regeneration;
- Anti-microbial applications of hydrogels.

Guest Editors

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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

Prof. Dr. Esmail Jabbari

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Rapid Publication:

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).