



*gels*



an Open Access Journal by MDPI

## Advanced Gel Materials for Bioengineering

Guest Editors:

**Dr. Shuhui Yang**

School of Materials Science and Engineering, Zhejiang-Mauritius Joint Research Center for Biomaterials and Tissue Engineering, Zhejiang Sci-Tech University, Hangzhou 310018, China

**Dr. Haibo Mu**

College of Chemistry and Pharmacy, Northwest A&F University, Yangling 712100, China

Deadline for manuscript submissions:

**31 January 2025**

### Message from the Guest Editors

This Special Issue provides an excellent platform to present and discuss the design, synthesis, characterization, and utilization of gel materials for various bioengineering applications. We invite researchers and experts to contribute original research articles and comprehensive reviews that focus on the development and application of innovative gel-based materials in the field of bioengineering.

Topics of interest include but are not limited to:

- Novel synthesis methods for gel materials;
- Functionalization and surface modification of gel materials;
- Controlled drug delivery systems using gel materials;
- Gel-based scaffolds for tissue engineering and regenerative medicine;
- Responsive and stimuli-sensitive gel materials;
- Gel materials for biosensing and diagnostic applications;
- Biocompatibility and biodegradability of gel materials.

We look forward to receiving your contributions and believe that this Special Issue will contribute significantly to the advancement of gel materials in bioengineering and foster collaborations within the scientific community.



[mdpi.com/si/182112](https://mdpi.com/si/182112)

**Special** Issue



*gels*



an Open Access Journal by MDPI

## 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

## 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.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [CAPlus / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q1 (Polymer Science) / CiteScore - Q2 (Polymers and Plastics)

## Contact Us

---

*Gels* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/gels](http://mdpi.com/journal/gels)  
[gels@mdpi.com](mailto:gels@mdpi.com)  
[X@Gels\\_MDPI](#)