Special Issue

Biopolymeric Gels: Advancements in Sustainable Multifunctional Materials

Message from the Guest Editors

This Special Issue aims to highlight the latest advances in biopolymeric gels as sustainable and multifunctional materials, with preclinical and clinical biomedical applications. We welcome original research and review articles on novel gel systems, smart or stimuli-responsive gels, bioactive or therapeutic functionalities, and in vivo or clinical performance. Contributions addressing structure–function relationships, hybrid formulations, or innovative manufacturing techniques are especially welcome. At the same time, we invite proposals exploring non-biomedical applications, such as soft robotics, agriculture, food packaging, or environmental remediation, to reflect the broad impact of these materials on the advancement of sustainable technologies. By bringing together interdisciplinary research spanning materials science, biology, chemistry, and engineering, this Special Issue seeks to present the next generation of multifunctional, eco-friendly biopolymer gels with practical relevance

Guest Editors

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Deadline for manuscript submissions

31 July 2026

Gels

an Open Access Journal by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/254296

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About the Journal

Message from the Editorial Board

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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Journal Rank:

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 13.5 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

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