

Special Issue

Recent Advances in Aerogels and Aerogel Composites

Message from the Guest Editors

Aerogels, known for their ultralight structure and exceptional material properties, are at the forefront of material science innovation. The Special Issue of the journal *Gels*, entitled "Recent Advances in Aerogel and Aerogel Composites", aims to explore the cutting-edge developments within this field. The scope of this Special Issue encompasses a wide array of topics. Contributions are invited on subjects including, but not limited to, new methods in synthesis, simulation, structural design and functionalization, advances in hybrid aerogel composites, and breakthroughs in their mechanical, thermal, and acoustic properties. This Special Issue aspires to serve as a nexus for academic and industrial researchers to share insights, foster collaborations, and push the boundaries of aerogel technology. Through this research collection, we aim to highlight the remarkable potential of aerogels and their composites, paving the way for their integration into next-generation materials and technologies.

Guest Editors

Dr. Mu Du
Dr. Xianbo Hou
Dr. Lin Guo

Deadline for manuscript submissions

closed (31 January 2026)



Gels

an Open Access Journal
by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/194125

Gels
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
gels@mdpi.com

[mdpi.com/journal/
gels](https://mdpi.com/journal/gels)





Gels

an Open Access Journal
by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed



[mdpi.com/journal/
gels](https://mdpi.com/journal/gels)



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.

Editors-in-Chief

Prof. Dr. Esmail Jabbari

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

Prof. Dr. Chuanliang Feng

State Key Lab of Metal Matrix Composites, School of Materials Science and Engineering, Shanghai Jiao Tong University, Shanghai 200240, China

Author Benefits

High visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (Organic Chemistry)

Rapid Publication:

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).