

Special Issue

Properties of Hydrogels, Aerogels, and Cryogels Composites

Message from the Guest Editors

This Special Issue on “Properties of Hydrogels, Aerogels, and Cryogels Composites” is dedicated to the latest advances in the preparation, properties, and applications of gel-type materials, highlighting key concepts relevant to the unique properties of hydrogels, aerogels, and cryogels.

Hydrogels have the ability to absorb impressive amounts of water or biological fluids within their peculiar structure of physically or chemically cross-linked 3D polymer networks. Hydrogels can be converted to aerogels following water removal via different approaches. Their distinctive features, such as super-absorbency, fluffiness, biocompatibility, viscoelasticity, and softness, underpin various applications, especially in the biomedical field.

This Special Issue will cover new discoveries in the production of hydrogels, aerogels, and cryogels with a broad variety of morphologies and properties, which can be tailored for a particular application.

Guest Editors

Dr. Irina Elena Raschip

Petru Poni Institute of Macromolecular Chemistry, Grigore Ghica Voda Alley 41A, 700487 Iasi, Romania

Dr. Raluca Nicoleta Darie-Nita

Petru Poni Institute of Macromolecular Chemistry, Grigore Ghica Voda Alley 41A, 700487 Iasi, Romania

Deadline for manuscript submissions

closed (10 October 2023)



Gels

an Open Access Journal
by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/128454

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).