

Special Issue

Polysaccharide: Gelation Arts

Message from the Guest Editor

Polysaccharides represent a wide class of biomacromolecules that can play a variety of functions determined by their structural characteristics. In particular, their biocompatibility makes them attractive for biomedical applications, the food industry, cosmetic industry, and water purification. Their common features are represented by the presence of hydrophilic functional groups, such as hydroxyl, carboxyl, and amino acids, and the rigidity of the polymeric chain. In consequence, many polysaccharides are soluble in water and in certain conditions can form hydrogels. This Special Issue, entitled “Polysaccharide: Gelation Arts”, will focus on the various aspects of the polysaccharide gelation process: monitoring the gelation process, capacity to entrap various species from low molecular weight to proteins or cells, physicochemical methods that can highlight special properties of polysaccharide gels, applications, and modulation of gel properties. Researchers investigating polysaccharide gelation processes are invited to publish their original results, reviews, or perspectives related to these topics.

Guest Editor

Dr. Gabriela Ionita

“Ilie Murgulescu” Institute of Physical Chemistry of the Romanian Academy, 060021 Bucharest, Romania

Deadline for manuscript submissions

closed (31 January 2025)



Gels

an Open Access Journal
by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/168204

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

mdpi.com/journal/

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





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).