Special Issue

Properties and Applications of Cellulose Based Gel

Message from the Guest Editors

Cellulose is a common and important organic compound on Earth, found in the cell wall of green plants and many forms of algae, fungi and molds. As the most abundant polymer, it is one of the oldest raw materials that have been used by humans since the dawn of civilization. Due to its unique structure and excellent properties, such as biocompatibility, biodegradability, chemical stability and derivatization, coupled with its low cost, abundance, availability and renewability, cellulose has various large- and small-scale applications, e.g., building and construction materials, paper, paperboard and packaging, cotton and textiles, food ingredients and feed, heat and luminous sources and so on. However, there are still great challenges that facilitate this natural polymer to be further used, especially the development of a new and green platform for cellulose shaping through chemical and/or physical modification. Among these, cellulose-based gels offer new opportunities and open new frontiers over a broad range of applications.

Guest Editors

Dr. Bogdan Marian Tofanica

Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, 73 Prof. Dr. Docent D. Mangeron Boulevard, 700050 Iasi, Romania

Dr. Jianguo Li

School of Materials Engineering, Fujian Agriculture and Forestry University, Fuzhou 350002, China

Deadline for manuscript submissions

closed (15 September 2023)

Gels

an Open Access Journal by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/162008

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

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

MDPI

About the Journal

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.

Editor-in-Chief

Prof. Dr. Esmaiel Jabbari
Biomimetic Materials and Tissue Engineering Laboratory, Department of Chemical Engineering, University of South Carolina, Columbia, SC 29208, USA

Author Benefits

High visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / 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).