Special Issue

Advanced Hydrogels for Controlled Drug Delivery (2nd Edition)

Message from the Guest Editor

I am inviting you to contribute to a Special Issue of ***Gels*** entitled "***Advanced Hydrogels for Controlled Drug Delivery***". Gels remain at the forefront of soft matter science and engineering research. Due to their rich diversity of chain–solvent combinations, gels provide ever-growing options for exploring basic and applied chemistry, materials science, food science, pharmaceutical science and medicine. As open systems capable of exchanging energy and substances with their surroundings, gels have long served as a research platform for chemo-mechanical systems and drug delivery applications. Recent findings in vaccine immunology highlight the importance of "dose scheduling", i.e., the spatiotemporal control of immune stimulators on a day-to-week timescale synchronized with autologous immune kinetics. The same method can also be applied in cell engineering and regenerative medicine, challenging experts around the globe to develop advanced hydrogel technologies with this aim in mind.

Guest Editor

Prof. Dr. Akira Matsumoto
Institute of Biomaterials and Bioengineering, Institute of Science Tokyo, Tokyo 101-0062, Japan

Deadline for manuscript submissions

closed (20 March 2026)

Gels

an Open Access Journal by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/185595

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

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. Esmaiel 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, 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).

MDPI