Special Issue

Designing Gels for Wound Healing and Drug Delivery Systems

Message from the Guest Editors

Drugs play an important role in disease treatment. However, many kinds of drugs are difficult for the body to utilize efficiently because they are insoluble in nontoxic solvents, irritant to tissues, and easily deactivated. Therefore, a series of drug delivery systemshave been developed to carry and protect drugs and transport them into specific tissues or organs to achieve the expected modulation and therapeutic effects. Among these, hydrogel-based systems have attracted research interest. Hydrogels consist of hydrophilic polymer chains with physical or chemical crosslinking. They are soft and water-rich and similar to the tissues, and they have shown huge potential in biomedical fields, including diagnostics, tissue engineering, and restorative medicine.

In this Special Issue, we aim to present detailed and in-depth exploration and discussions on designing hydrogels for wound healing and drug delivery system. Topics of interest include, but are not limited to, the novel components of hydrogels; new strategies for fabrication or drugs encapsulation, transportation, and release; and the fundamental study of the effect on drug delivery of hydrogel parameters.

Guest Editors

Dr. Mariana Chelu

"Ilie Murgulescu" Institute of Physical Chemistry, Romanian Academy, 060021 Bucharest, Romania

Dr. Monica Popa

Laboratory of Oxide Compounds and Materials Science, "Ilie Murgulescu" Institute of Physical Chemistry, 060021 Bucharest, Romania

Deadline for manuscript submissions

30 September 2026

Gels

an Open Access Journal by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/253822

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 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 12.5 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).

MDPI