

Special Issue

Hydrogels for Biomedical Applications: New Knowledge

Message from the Guest Editor

In Otto Wichterle's 1960 *Nature* publication titled "Hydrophilic Gels for Biological Use", he proposed the use of pHEMA hydrogels for soft contact lenses and other biomedical applications. Since then the utilization of hydrogels has grown into well-developed commercial and research arenas. Hydrogels are now commercially available as soft contact lenses, wound dressings and diaper absorbents to name a few. Current hydrogel research holds the promise of biomedical advances that include controlled drug delivery, biosensors, tissue engineering and regenerative medicine. Exciting new methods are being explored to deploy hydrogels in applications such as injectable hydrogels, electrospinning and bioprinting. This Special Issue aims to highlight the current and future state of biomedical hydrogel research.

Guest Editor

Dr. Naphtali O'Connor

Department of Chemistry, Lehman College City University of New York,
250 Bedford Park Blvd West, Bronx, NY 10468, USA

Deadline for manuscript submissions

closed (30 September 2021)



Gels

an Open Access Journal
by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/52022

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 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. Esmail 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, CAPus / 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).