

Special Issue

Recent Advances in Hydrogel-Forming Microneedles

Message from the Guest Editors

We are delighted to announce this Special Issue on “Recent Advances in Hydrogel-Forming Microneedles”. Microneedle technology has gained tremendous attention in recent years. Containing a number of needles that are microscale in dimension, microneedles could efficiently deliver drugs in a painless and minimally invasive way.

This Special Issue provides an excellent platform with which to share up-to-date research progress in the design and fabrication of hydrogel-forming microneedles, as well as their application in drug delivery systems and non-invasive monitoring devices. Research papers or reviews that showcase the latest advancements and breakthroughs in this field are welcomed. We look forward to receiving your contributions, and we believe that this Special Issue will promote the development of microneedles fabricated by gel materials.

Guest Editors

Dr. Siyuan Chen

College of Materials Science and Engineering, Nanjing Tech University, Nanjing 211816, China

Prof. Dr. Akira Matsumoto

Institute of Biomaterials and Bioengineering, Institute of Science Tokyo, Tokyo 101-0062, Japan

Deadline for manuscript submissions

closed (31 December 2024)



Gels

an Open Access Journal
by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/203781

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 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).