Special Issue

Recent Advances in Highly Stretchable and Resilient Hydrogels

Message from the Guest Editor

Possessing high stretch capacities and resilient performance are essential mechanical features of hydrogels for applications in soft robotics, bionic skins, tissue engineering, artificial muscles, and sensors. To enable the stretchable and rapidly resilient hydrogels, the elements in hydrogel frameworks should be able to maintain the mechanical stability or to construct reversible rapid interaction kinetics in response to eternal force. This Special Issue will mainly focus on the recent advances of different potential approaches to synthesize highly stretchable and resilient hydrogels for various specific applications in, but not limited to, sensing systems, biomedicines, robotics, soft electronics, bionics, and theoretical models.

Guest Editor

Prof. Dr. Lidong Zhang

School of Chemistry and Molecular Engineering, East China Normal University, Shanghai 200241, China

Deadline for manuscript submissions

closed (1 June 2022)

Gels

an Open Access Journal by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/94905

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 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).