Special Issue

Recent Research Trends in New Generation Polymer Gels

Message from the Guest Editors

Research investigations of polymer gels have been always cutting-edge topics in the field of polymeric materials science. While a fundamental understanding of the physicochemical characteristics of polymer gels, as well as the synthetic pathways of various classical polymer gels, seems to be firmly established, methods to improve polymer gel's properties are still vigorously examined by numerous researchers. The behavior of natural polymer gels, which are often encountered in the course of biological macromolecules, is more complicated and also of great interest. Investigations on new-type polymer gels with novel inner structures (i.e., polyrotaxane slide-ring gels, tetra-PEG gels, nanocomposite gels, double network gels, etc.) have also presented many fascinating outcomes, within the last two decades. The are proud to introduce this Special Issue summarizing current research investigations on polymer gel studies, particularly those that include supramolecular-structured polymer gels.

Guest Editors

Dr. Jun Araki
Prof. Kohzo Ito
Prof. Yukikazu Takeoka

Deadline for manuscript submissions

closed (1 December 2021)

Gels

an Open Access Journal by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/77820

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 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).