Special Issue

Recent Advances in Crosslinked Gels

Message from the Guest Editors

The concept of gelation was first introduced by W.H. Carothers to describe systems in which a sample spanning three-dimensional (3D) networks of polymers/particles immobilizes the solvent in which they are dispersed/dissolved. The 3D network of polymers/particles is connected via covalent and/or non-covalent bonds, and it is important to note that the solvent content of such materials can be >90%. Gels have a variety of applications based on their properties, and those that respond to internal and/or external stimuli such as temperature, pH, solvent composition, ionic composition, magnetic field, electric field and light, etc. are described as “stimuli-responsive gels” or “smart gels”. This Special Issue serves as a focal point for high-quality research papers as well as review articles addressing crosslinked polymeric gels, their preparation, characterization, and various applications in the fields of chemistry, engineering, and biotechnology.

Guest Editors

Dr. Melike Firlak

Department of Chemistry, Faculty of Science, Gebze Technical University, Gebze 41400, Turkey

Dr. John G. Hardy

1. Department of Chemistry, Faraday Building, Lancaster University, Lancaster LA1 4YB, UK
2. Materials Science Institute, Faraday Building, Lancaster University, Lancaster LA1 4YB, UK

Deadline for manuscript submissions

closed (20 December 2023)

Gels

an Open Access Journal by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/103735

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