

## Special Issue

# Gel Materials in Advanced Energy Systems

### Message from the Guest Editor

The European Green Deal, as well as other initiatives, will help achieve climate neutrality by 2050 to transform the EU and the world into a modern, resource-efficient, and competitive economy. Energy storage and conversion technologies are two important features of the current global transformation and the next "climate neutral" scenario. Therefore, highly efficient energy systems have attracted extensive research interest in recent years, with efforts focused on the development of new electrode materials and electrolytes. Due to their unique properties, such as flexibility, stretchability, and biocompatibility, gel materials are increasingly finding applications in various types of energy conversion and storage systems, such as lithium ion batteries, supercapacitors, fuel cells, etc. In order to popularize the great potential of gel materials and their application in modern energy systems, as well as to strengthen the links in academia, the Special Issue has been launched. Original research articles, reviews, and perspectives relevant to the scope of this Special Issue are welcomed.

---

### Guest Editor

Prof. Dr. Antonia Stoyanova

Institute of Electrochemistry and Energy Systems, Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria

---

### Deadline for manuscript submissions

28 February 2025



## Gels

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.0  
CiteScore 4.7  
Indexed in PubMed

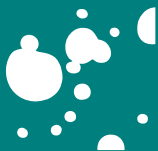


[mdpi.com/si/192024](https://mdpi.com/si/192024)

*Gels*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[gels@mdpi.com](mailto:gels@mdpi.com)

[mdpi.com/journal/  
gels](https://mdpi.com/journal/gels)





# Gels

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.0  
CiteScore 4.7  
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 - Q2 (Polymers and Plastics)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 10.9 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2024).