

## Multifunctional Polymer Nano-, Micro- and Hydro- Gels: Synthesis, Properties and Applications

Guest Editors:

**Dr. Mingning Zhu**

**Dr. Wenkai Wang**

**Dr. Ruixue Liu**

**Dr. Qinghua Wei**

Deadline for manuscript  
submissions:

**30 September 2024**

### Message from the Guest Editors

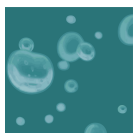
Dear Colleagues,

This Special Issue on “Multifunctional Polymer Nano-, Micro- and Hydro- Gels: Synthesis, Properties and Applications” is dedicated to the recent advances in the macro- and micro-hydrogel field. Within this context, a broad range of subjects, including hydrogel preparation and characterization, mechanism expression, and applications, will be discussed.

This Special Issue focuses on the design of functional macro- and micro-hydrogels by controlling their synthesis and characterization, including theoretical and fundamental aspects. Their physical and chemical properties can be affected by factors such as the choice of monomers, polymers and crosslinking methods. Research should cover new methods and ideas for preparing gels, and the construction of new functional hydrogel materials which have advanced interdisciplinary applications.

We look forward to receiving your valued contribution to this Special Issue.





***gels***



an Open Access Journal by MDPI

## 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

## 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.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [CAPus / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q1 (*Polymer Science*)

## Contact Us

---

*Gels* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/gels](http://mdpi.com/journal/gels)  
[gels@mdpi.com](mailto:gels@mdpi.com)  
[X@Gels\\_MDPI](#)