

## Special Issue

# Chemical Properties and Application of Gel Materials (2nd Edition)

### Message from the Guest Editors

This Special Issue on "Chemical Properties and Applications of Gel Materials" is dedicated to exploring the unique chemical properties of gel materials as well as their diverse applications across a wide range of fields, from healthcare to the food industry and from environmental remediation to advanced electronic devices. Understanding how the chemical components govern gel formation, microstructure, and mechanical properties is essential for harnessing their full potential in specific applications. In this Special Issue, we invite contributions exploring the structure–property relationships of gel materials, shedding light on their synthesis, characterization, and manipulation. In addition to elucidating gel materials' chemical and physical properties, contributions exploring the use of gel materials in drug delivery systems, tissue engineering, environmental remediation, food science, cosmetics, and advanced electronic devices are highly encouraged. This Special Issue aims to provide an interdisciplinary discussion and inspire further advancements in this field by highlighting the theoretical foundations and applications of gel materials.

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### Guest Editors

Dr. Xiaolong Zeng

Dr. Jiahui Liu

Dr. Wen Sun

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### Deadline for manuscript submissions

31 August 2026



## Gels

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## 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.

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### Editors-in-Chief

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