

Special Issue

Hydrogels for Encapsulation Applications

Message from the Guest Editors

This Special Issue aims to highlight recent innovations in the design, synthesis, characterization, and application of hydrogels for encapsulation purposes. We welcome contributions exploring novel hydrogel formulations and encapsulation strategies for biomedical, environmental, industrial, and biotechnological applications, including but not limited to:

- Design and synthesis of hydrogels for encapsulation
- Stimuli-responsive and functionalized hydrogels
- Hydrogels in biomedicine: probiotics, wound healing, cell therapy, and drug delivery
- Encapsulation strategies for environmental applications: bioremediation and wastewater treatment
- Hydrogel-based biosensors, biocatalysis, and industrial bioprocessing
- Advances in hydrogel characterization techniques for encapsulated systems

We invite researchers from various disciplines, including materials science, microbiology, chemistry, bioengineering, and related fields to contribute their latest findings and insights on this Special Issue. We look forward to your submissions.

Guest Editors

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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

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Author Benefits

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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).