Special Issue

Polymer Gels for Sensor Applications

Message from the Guest Editors

Polymeric gels, including organogels, hydrogels, ionic gels, or sol-gel materials, are versatile materials that have received significant attention in recent years. Their use in sensing applications is a growing field, with impacts on environmental monitoring, healthcare, food safety, and industrial quality control. This Special Issue will bring together recent advances in the development and application of polymeric gels for environmental, healthcare, and food sensing and monitoring applications. The scope of this Special Issue includes, but is not limited to, the following:

- Design, synthesis, and characterization of polymer gels for sensing.
- Smart hydrogels and organogels for optical or electrochemical sensing.
- Sol-gel materials for sensing applications.
- Integration of polymer gels with devices for real-time sensing applications.
- Biodegradable and sustainable polymer gels for sensing technologies.
- Functionalization methodologies for enhancing sensitivity and specificity of polymer gels.

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

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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).

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