Special Issue

Gels for Biomedical Applications (2nd Edition)

Message from the Guest Editors

Gels play a pivotal role in biomedical applications due to their unique physical properties and versatile functionality, including biocompatibility, biodegradability, and adaptability to different environments. These three-dimensional polymeric crosslinked networks resemble natural tissues and are widely used in drug delivery, tissue engineering, wound healing, and diagnostics systems. By tailoring their composition, gels can be engineered to achieve controlled drug release and fine-tuned biocompatibility, biodegradability, and mechanical performance—features essential for specific biomedical uses. This Special Issue highlights recent advances in innovative material design that enhance the properties, stability, and functionality of gels for biomedical applications. We welcome original research and reviews addressing gel synthesis, characterization, and performance evaluation in biomedical contexts.

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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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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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