

Special Issue

Functional Transformations in Polymer Gels

Message from the Guest Editors

It is our pleasure to invite your contributions to a Special Issue on “Functional Transformations in Polymer Gels” in the journal Gels.

Gels are astoundingly versatile. In these materials, a polymer network swollen by a solvent creates a micro- or nano-porous environment capable of hosting solution-phase chemistry, diffusive or migratory transport, and viscous dissipation while maintaining the ability to hold a shape and exert elastic restoring forces. As gels’ material properties emerge from their several mutually interacting components, they are highly tunable in almost every respect, and transformations can be achieved in a variety of qualitatively distinct ways.

This Special Issue will collect original research articles and reviews discussing the theory, fabrication, characterization, and deployment of polymer gels that undergo functional transformations during their fabrication or over the course of their use. Submissions may discuss gels composed of polymer networks and solvents of all types. For more information, please visit: mdpi.com/si/95592.

Guest Editors

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Deadline for manuscript submissions

closed (15 October 2022)



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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 13.5 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).