



gels



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Functional Transformations in Polymer Gels

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Deadline for manuscript submissions:

closed (15 October 2022)

Message from the Guest Editors

Dear Colleagues,

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.



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Special Issue



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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.

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