Special Issue

Polymer Gels

Message from the Guest Editor

Polymer gels are deeply embedded within our lives, and constitute matter we experience daily. The vitreous humor supporting the eye which allows light to pass to the retina is a hydrogel consisting of collagen fibrils expanded with hyaluronic acid. Topical gels made from cross-linked poly(acrylic acids) are preferred by patients for treatments such as testosterone therapy or delivery of anti-inflammatories to the skin. Polysaccharide gels are used in energy applications to improve the efficiency of fracking operations. These few examples demonstrate how invaluable polymer gels currently are to the quality of our lives. Yet, the boundaries of science concerning these materials continues to grow, with a continual pipeline of academic and industrial research driving towards translation of advanced technologies.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2022)

Gels

an Open Access Journal by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/63371

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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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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).