

Special Issue

Gel Bioinks

Message from the Guest Editors

Bioinks made from gel are organic materials with flexible bonds and groups and have remarkable promise in 3D printing, biological chips, scaffolds for tissue engineering, etc. The past 30 years in chemistry and materials science have seen the development of an arsenal of synthetic protocols that can produce valuable and highly accurate gel compounds in a large quantity. Synthesized gels can be produced with raw materials other than chemicals; there is a growing interest in using biological and natural resources such as plants, fungi and animals for this purpose. This Special Issue focuses on the novel applications of natural and natural-synthetic gel materials and their composites in the field of bioinks. Submissions may cover traditional subjects, such as 3D printing, functional devices, catalysts, microfluidics, bio-tissue engineering, disease diagnosis, bioelectronics, point of care, tissue imaging, flexible devices, biomedical devices, artificial tissues and cell differentiation. Papers on other relevant subjects are also encouraged. We welcome contributions detailing important applications showcasing the latest advances in the field of gel and bioinks.

Guest Editors

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Deadline for manuscript submissions

closed (31 July 2023)



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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

Prof. Dr. Esmail Jabbari

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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).