

Special Issue

Advanced Hydrogels as Cell Supportive Matrices: Potential Applications for Musculoskeletal Tissue Engineering and Regenerative Medicine

Message from the Guest Editors

This Special Issue on “Advanced Hydrogels as Cell Supportive Matrices for Musculoskeletal Tissue engineering and Regenerative Medicine” is dedicated to recent progress in the development of novel hydrogels that can serve as cell-supportive matrices to generate functional engineered musculoskeletal tissues, organoid or biochips. These engineered musculoskeletal tissues or structures could potentially be used as medical products for musculoskeletal tissue repair or regeneration, or as an experimental platform for musculoskeletal disease modelling, drug screening or toxicity testing. We welcome the submission of new concepts and results of advanced hydrogels focusing on, but not limited to, hydrogel strategy and synthesis, physical–chemical and mechanical characterisation of hydrogels, stem and immune cell-hydrogel interactions and modulation, and engineered tissue construct-host tissue integration or functional engraftment in pre-clinical or clinical settings related to musculoskeletal tissue repair or regeneration.

Guest Editors

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Deadline for manuscript submissions

closed (31 August 2024)



Gels

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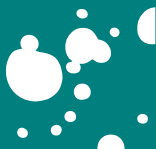


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About the Journal

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 10.8 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2024).