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Recent Research on Alginate Hydrogels in Bioengineering Applications

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Message from the Guest Editors

This Special Issue on “Recent Research on Alginate Hydrogels in Bioengineering Applications” is dedicated to highlighting the latest advancements and breakthroughs in alginate-based hydrogel processing, their characterization and utilization across various fields of bioengineering, fostering collaboration, and inspiring further innovation in this area of research.

Hydrogels based on alginate are a flexible biomaterial known for their unique properties and wide range of applications. This polysaccharide, extracted mainly from brown seaweed, has excellent biocompatibility and can be used in a variety of biomedical areas. Furthermore, because of its ability to change its characteristics in response to external stimuli, it is also successfully employed in the development of sensors or research on artificial muscles that react to changes in the environmental factors. The versatility and adaptability of alginate-based hydrogels make them promising materials for a wide range of biomedical and technological applications.

We look forward to the submission of new results that will contribute to the advancement of knowledge in this area.



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Special Issue



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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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