Special Issue

Alginate-Based Gels: Preparation, Characterization and Application

Message from the Guest Editors

This Special Issue on “Alginate-based Gels: Preparation, Characterization and Application” is dedicated to recent developments from theoretical and fundamental aspects to the synthesis, characterization, and applications of Alginate-based gels. As a natural polymer, alginate has complex and changeable structure and molecular weight distribution. Owing to the complexity of the interactions in alginate gel, an understanding of these materials has been slow to develop despite the importance of alginate gels. Alginate gel mostly has low mechanical strength. Mechanical damage is easily occurred during the use process, and the performance of the gel is greatly reduced after being damaged. Progress in this field requires an interdisciplinary effort to accomplish a more detailed understanding of the structure and interactions that define the behavior of complex polyelectrolyte systems, and makes it possible to tailor the properties of these materials. It is hoped that the topics will stimulate new research and discoveries in the field of alginate gels.

Guest Editors

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Deadline for manuscript submissions

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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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