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Food Gels: Properties and Applications

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Deadline for manuscript submissions:

closed (30 March 2024)

Message from the Guest Editors

Food gels are soft, flexible macromolecular polymeric materials that retain large amounts of water or biofluids in their three-dimensional network structure. Owing to the structural and viscoelastic characteristics of these gels, they play essential roles in modern food design; for example, they are used to replace fats, increase shelf life, and guard flavor compounds, and in the creation of complex product shapes via three-dimensional (3D) printing. An increasing trend has been observed in the use of hydrogels as stimuli-responsive delivery systems because of their sustainable, low-cost, nontoxic, and Researchers biocompatible nature. endeavor understand the mechanisms of gelling processes under different gelation conditions and using different gelling agents, such as polysaccharides or starch, to achieve gels with specific attributes. Although many aspects of the formation mechanisms, functions, and applications of gels have been clarified thus far, many phenomena remain unsolved. We look forward to receiving submissions of new results on the interconnection between gel networks, the preparation of gels, and the novel application of gels with high functional properties.







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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.

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