

Special Issue

Nature Polymer Gels for Food Packaging

Message from the Guest Editors

Plastic films derived from fossil sources have long served as crucial flexible food packaging materials, ensuring food preservation throughout the distribution chain. However, given the environmental concerns associated with the production and disposal of fossil-based plastics, biopolymer films and gels have emerged as viable alternatives to traditional polymers. Overcoming challenges related to property enhancement is essential for their widespread adoption.

This Special Issue, titled “Nature Polymer Gels for Food Packaging”, aims to showcase the latest developments and advancements in biopolymer-based food packaging gels. Original and innovative research articles and reviews are all welcome for submission.

Topics of interest include (but are not limited to) the following: biopolymer-based films and coatings for food preservation; active bio-based packaging; stimuli-responsive/“intelligent” food packaging; physicochemical properties of food packaging materials; edible packaging; (micro/nano) encapsulation; food package interactions; and the shelf life of packaged food products and bioplastics for the food industry.

Guest Editors

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About the Journal

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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