

Special Issue

Biopolymers-Based Emulsions and Hydrogels

Message from the Guest Editors

Hydrogels are three-dimensionally cross-linked polymeric networks that can absorb large amounts of water without being dissolved. Emulsions generally consist of small spherical droplets of two liquids stabilized through surface active compounds such as surfactants or surface-active polymers. Recently, with increasing demands for renewable and ecofriendly sustainable materials, developing effective utilizations of various biopolymers and their applications in hydrogels and emulsions have been widely studied. For example, various biopolymers such as sodium alginate, starch, protein, hemicelluloses, lignin, cellulose, chitin, and their derivatives have been widely used to fabricate biopolymer-based emulsions and hydrogels. This Special Issue focuses on the recent research and advances in biopolymer-based emulsions and hydrogels, such as novel preparation methods, structures, mechanism analyses, and applications in different fields. Additionally, we welcome contributions on the preparation and characterization of biopolymers and bio-based nanoparticles.

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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