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Polysaccharide: Gelation Arts

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Polysaccharides represent a wide class of bio-macromolecules that can play a variety of functions determined by their structural characteristics. In particular, their biocompatibility makes them attractive for biomedical applications, the food industry, cosmetic industry, and water purification. Their common features are represented by the presence of hydrophilic functional groups, such as hydroxyl, carboxyl, and amino acids, and the rigidity of the polymeric chain. In consequence, many polysaccharides are soluble in water and in certain conditions can form hydrogels.

This Special Issue, entitled "Polysaccharide: Gelation Arts", will focus on the various aspects of the polysaccharide gelation process: monitoring the gelation process, capacity to entrap various species from low molecular weight to proteins or cells, physicochemical methods that can highlight special properties of polysaccharide gels, applications, and modulation of gel properties. Researchers investigating polysaccharide gelation processes are invited to publish their original results, reviews, or perspectives related to these topics.

Dr. Gabriela Ionita
Guest Editor

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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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