Special Issue

Advances in Cellulose-Based Functional Gels

Message from the Guest Editors

Cellulose, as the most abundant and renewable biopolymer with remarkable structural, morphological, chemical, and biological properties, different forms of cellulose (cellulose nanocrystals, cellulose nanofibers, bacterial cellulose/nanocellulose, microcrystalline cellulose, etc.) and cellulose derivatives are receiving a huge amount of attention due to their potential applications in different fields in the form of hydrogels, aerogels, membranes, papers, particles, films, etc. Moreover, a considerable portion of cellulose-based research is devoted to its production (plants, microorganisms, synthetic), its physical and chemical modification, the tuning of its properties, and advancements in its characterization. This Special Issue aims to compile recent research (research articles, mini- and full-length reviews, and communications) focusing on the synthesis, surface modification, and applications of cellulose in different fields, as well as the development of composites.

Guest Editors

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Deadline for manuscript submissions

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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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