



gels



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Advances in Cellulose-Based Hydrogels

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Deadline for manuscript submissions:

closed (15 May 2022)

Message from the Guest Editors

Dear Colleagues,

Cellulose is the most abundant natural biopolymer on Earth. With an estimated annual production of $\sim 1.5 \times 10^{12}$ tons globally, and the possibility of its extraction even from waste sources, it is considered an almost inexhaustible source of raw material capable to make up for the growing demand for environmentally friendly and biocompatible products.

Within this framework, cellulose-based hydrogels usually combine hydrophilicity, biodegradability, non-toxicity, and biocompatibility together with low costs and massive availability, which make them extremely attractive in both academic and industrial fields. Possible application fields include biomedical engineering, progress in smart systems and stimuli-responsive systems, the agricultural sector, and water purification.

This Special Issue is aimed at collecting the recent progress in cellulose-based hydrogels, including gels prepared from natural cellulose and its derivatives, cellulose graft copolymers, and composite gels based on cellulose. We encourage submissions covering key aspects of cellulose-based hydrogels, including design, characterization...

For more information, please visit: mdpi.com/si/103661.



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Special Issue



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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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