



gels



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Physically Cross-Linked Gels and Their Applications

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Message from the Guest Editors

Dear Colleagues,

This Special Issue is focused on physically cross-linked gels and their applications in various areas. In the 21st century, there is a rapid development in polymer and materials science, dedicated to the development of methods for the synthesis and optimization of conditions for the preparation of composite polymer materials with a nanoscale structure. Physically cross-linked gels have a number of advantages, including the simplicity of their preparation without the need for cross-linking agents. Different methods have been developed for preparing physical gels. Physically cross-linked gels may also be prepared in the form of cryogels, aerogels, xerogels, films, micro- and nanogels, and hybrid materials in combination with micro- and nanoparticles. Although the use of synthetic polymers provides gels with controlled properties, the use of natural polymers improves the biocompatibility of the material and appears to be more environmentally friendly.

Our team of guest editors hopes that this Special Issue will attract submissions of high-quality reviews and original research manuscripts in different types of physical gels.



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Special Issue



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Message from the Editor-in-Chief

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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