Special Issue

Recent Advances on Cellulose-Based Hydrogel Materials

Message from the Guest Editors

With the establishment of the first synthetic hydrogels by Wichterle and Lim in 1954, a diverse array of hydrogels has been developed and applied in many fields, such as medicine, agriculture, wearable devices and other scientific and industrial branches. As the required functionalities can be realized by the careful pre-design and precise control of their composition and structure, various functional hydrogels have been prepared and used in the frontiers of research. Polymeric hydrogels demonstrate particular advantages due to their wide range of monomers containing diverse functionalities. This Special Issue will focus on recent advances in sciences and technology of cellulose-based hydrogels, including their construction, modifications, characterization and applications. Both original research articles and reviews of hydrogel materials from cellulose and nanocellulose are welcome. Original research exploring novel design strategies and working mechanisms for important and sophisticated hydrogel materials is highly desired.

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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