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## Gel Film and Its Wide Range of Applications

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### Message from the Guest Editors

Gels are defined as solid three-dimensional networks, consisting of the external structure and a medium within. Although the medium can be a gas, it can also be a fluid. In the second option, the matrix can be classified as a hydrogel when it can absorb and retain water without dissolving. The hydrogel resistance to dissolution arises from cross-links between network chains, while their ability to absorb water arises from the hydrophilic functional groups distributed along the polymeric backbone.

This Special Issue aims to report a collection of articles dealing with the synthesis, characterization, and different applications of new hydrogels. For this purpose, the content includes polymeric matrices being developed and characterized, evaluated using *in vitro* and/or *in vivo* studies, and also clinical research applied to synthetic or natural-based hydrogels.

The publication of original research articles, rapid communications, or reviews in this Special Issue will be of significant contribution to the scientific knowledge of hydrogels.



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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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