Special Issue

Novel Functional Gels for Biomedical Applications

Message from the Guest Editor

Hydrogels represent an emerging frontier in medical research and a promising advancement in drug delivery, tissue regeneration, and disease diagnosis. The rapid progression of such applications, which include hydrogel-based cancer therapy, regulation of inflammatory microenvironments, and tissue repair, has sparked a pressing need for fresh perspectives and innovations in functional gel design. Both naturally derived and synthetic hydrogels can be tailored to deliver therapeutic drugs or biomolecules, enhancing the treatment of various diseases. While numerous responsive hydrogel systems have been developed for in vivo applications, in vivo treatment results and preclinical applications indicate that there is still ample room for optimization within existing hydrogel systems. This Special Issue aims to cultivate an avenue for technological advancement and the development of novel functional gels for drug delivery and associated applications. We warmly invite submissions of both research and review articles that focus on cutting-edge technology and functional gels.

Guest Editor

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About the Journal

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.

Editor-in-Chief

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