Special Issue

Hydrogels and Their Applications in Wound Healing

Message from the Guest Editor

Hydrogels are crosslinked hydrophilic polymers capable of swelling and retaining a large amount of water within their 3D network without dissolution. Therefore, hydrogels are commonly used in clinical practice and experimental medicine for a wide range of applications, including drug delivery, tissue engineering and regenerative medicine, diagnostics, separation of biomolecules or cells, and barrier materials to regulate biological adhesions. One of the most prevalent applications of hydrogels is wound management. Thanks to their high water content and unique physical properties, hydrogels could potentially resemble biological tissues, including human skin. We look forward to seeing more research work on the application of hydrogels and wound repair. We have also presented leading strategies that are being employed in engineering hydrogel-based materials with molecular control, increased complexity, tunable functionality, and 3D cell culture. In consideration of the rapid advances in this area, we organized a Special Issue of *Gels* named "Hydrogels and Their Applications in Wound Healing". The submission of both theoretical and experimental studies are welcome.

Guest Editor

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Deadline for manuscript submissions

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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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