Special Issue

Designing Gels for Wound Dressing

Message from the Guest Editors

Currently, healthcare is facing a growing problem of traumatic wounds causing death. In developing countries, >90% of accidents cause skin injuries and subsequent deaths yearly. Molecules controlling inflammation and tissue repair are often associated with wound healing, and these factors' dysregulation leads to mortality in wounded patients. To promote wound healing and skin tissue repair, effective wound dressing materials are active supplements to overcome the limitations of natural wound repair processes and to avoid scar formation. Hydrogels can be used as an active wound dressing material to enhance the repair process by maintaining optimal conditions for wound healing. The advantages of hydrogel dressings over conventional dressings are numerous. This Special Issue will assist chemists, material scientists, engineers, and medical practitioners in understanding the benefits and limitations of hydrogels to build and create therapeutically beneficial biomaterial platforms for translational applications.

Guest Editors

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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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