

## Special Issue

# Designing Chitosan-Based Hydrogels for Tissue Engineering

### Message from the Guest Editors

The wide range of biomaterials used in tissue engineering can be applied for both soft- and hard-tissue applications, according to their mechanical properties and functionalities. Apart from that, biocompatibility is one of the key points in the fabrication of tissue engineering materials. Chitosan is one of the most abundant biopolymers in Nature. Due to its unique properties, chitosan is used in pharmaceutical, cosmetic, food and tissue engineering industries. Hydrogels are versatile biomaterials, mostly used in soft-tissue applications, drug delivery, and wound dressing. Hydrogels have the advantages of enhanced mechanical strength combined with elasticity, controlled and prolonged release kinetics with a controlled degradation rate. This Special Issue focuses on recent research about designing chitosan-based hydrogels for tissue engineering applications. We welcome contributions regarding the preparation and characterization of chitosan-based hydrogels, such as chemical analysis, mechanical performance, release kinetics, degradation behavior, morphological characteristics, and cellular interaction with potential tissue engineering applications.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 January 2024)



## Gels

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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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### Editors-in-Chief

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