

## Special Issue

# Smart and Biopolymer-Based Gels for Environmental Applications

### Message from the Guest Editor

This Special Issue of *Gels* aims to showcase recent advances in smart and biopolymer-based gels designed for environmental applications. Smart gels, stimuli-responsive polymeric networks, offer dynamic and tunable properties that make them ideal for pollution sensing, adsorption, remediation, and controlled release. Biopolymer-derived hydrogels, such as those based on alginate, chitosan, and cellulose, combine environmental friendliness with functional versatility. Their inherent biodegradability and capacity for chemical modification enable the development of hybrid and responsive systems capable of addressing pressing environmental challenges. This issue welcomes contributions focusing on the synthesis, characterization, modeling, and application of smart gels and natural polymer hydrogels in water purification, soil restoration, air filtration, and related sustainable technologies. By gathering interdisciplinary research, this Special Issue seeks to highlight innovative pathways toward intelligent, eco-friendly gel systems for a cleaner planet.

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### Guest Editor

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### Deadline for manuscript submissions

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## 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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