

## Special Issue

# Advanced Functional Gels for Environmental and Energy Applications

### Message from the Guest Editors

This Special Issue aims to compile cutting-edge research and review articles that showcase the design, synthesis, and implementation of gel-based systems for a sustainable future. We seek contributions that explore how these soft, porous materials can be engineered to tackle critical issues, including but not limited to, the following: the catalytic degradation or adsorption of pollutants (in water and air), the capture and conversion of greenhouse gases (e.g., CO<sub>2</sub>), advanced sensing and monitoring, and their use in energy-related technologies such as electrocatalysis, photocatalysis, batteries, and supercapacitors. A key focus lies in understanding the structure–property–application relationships that govern their performance. We invite submissions that highlight novel gel architectures (e.g., supramolecular gels, nanocomposite hydrogels, and aerogels), smart functionalities, and their integration into practical devices or systems.

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### Guest Editors

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### Deadline for manuscript submissions

10 February 2027



## 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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