

## Special Issue

# Recent Progress of Hydrogel Sensors and Biosensors

### Message from the Guest Editors

Hydrogels for sensors and biosensors are appropriately tailored so they change their physicochemical properties after their interaction with the target. Thus, stimuli, such as pressure, light, electric fields, magnetic fields, heat, the presence of small molecules and biomolecules, or pH, can be monitored by analyzing their effect on the absorbance, color, refractive index, conductivity, or rheological properties of materials, among others. This Special Issue aims to collect both original research articles and review papers on the most recent innovations regarding the formulation, synthesis, processing, design, and characterization of hydrogels in different formats for sensing and biosensing. Studies about wearables, point-of-care, and emerging sensing technologies based on hydrogels are greatly encouraged.

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### Guest Editors

Prof. Dr. María-José Bañuls

Dr. María Isabel Lucío

Prof. Dr. Ángel Maquieira

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### Deadline for manuscript submissions

closed (30 April 2025)



## Gels

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*Gels*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[gels@mdpi.com](mailto:gels@mdpi.com)

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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

Prof. Dr. Esmail Jabbari

Biomimetic Materials and Tissue Engineering Laboratory, Department of Chemical Engineering, University of South Carolina, Columbia, SC 29208, USA

Prof. Dr. Chuanliang Feng

State Key Lab of Metal Matrix Composites, School of Materials Science and Engineering, Shanghai Jiao Tong University, Shanghai 200240, China

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