Special Issue

Recent Progress of Hydrogel Sensors and Biosensors (2nd Edition)

Message from the Guest Editors

Hydrogels have attracted substantial attention over the last few decades due to their 3D hydrophilic structure which can swell high quantities of water. They found applications in controlled release, drug delivery, immunomodulation, tissue engineering, or sensing and biosensing. 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.

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

Prof. Dr. Esmaiel Jabbari
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Author Benefits

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JCR - Q1 (Polymer Science) / CiteScore - Q1 (Organic Chemistry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 12.5 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).