

## Special Issue

# Customizing Hydrogels: A Journey from Concept to End-Use Properties

### Message from the Guest Editors

We are pleased to announce this Special Issue, titled "*Customizing Hydrogels: A Journey from Concept to End-Use Properties*". The uniqueness of hydrogels is reflected in their ability to be customized from the conceptualization phase in order to obtain particular end-use properties suitable for targeted applications. The goal of this Special Issue is to present the most recent innovative approaches in the design, synthesis, and investigation of tailored hydrogel properties. These may include aspects such as swelling behavior; specific physical, chemical, or mechanical properties; responsiveness to external stimuli; and/or compatibility with biological systems. This Special Issue aims to highlight the cutting-edge influence of customized hydrogel development and pave the way for advancements in performance and applicability in real-world scenarios. Thus, authors are invited to submit original research papers (or critical reviews) to this Special Issue that emphasize the uniqueness of hydrogel-based materials from theoretical concepts to specific properties for prospective applications.

### Guest Editors

Dr. Andra-Cristina Enache

Dr. Corneliu Cojocaru

Dr. Petrisor Samoila

### Deadline for manuscript submissions

10 September 2025



## Gels

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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.

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### Editor-in-Chief

Prof. Dr. Esmail Jabbari

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

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#### High visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPus / SciFinder, and other databases.

#### Journal Rank:

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).