



gels



an Open Access Journal by MDPI

Gel Film and Its Wide Range of Applications

Guest Editors:

Dr. Priscilla Barbosa Sales De Albuquerque

Institute of Biological Science,
University of Pernambuco (UPE),
Recife 50670-901, Brazil

Dr. Maria G. Carneiro-Da-Cunha

Biochemistry Department,
Federal University of
Pernambuco, Recife 50670-901,
Brazil

Dr. Paulo Antônio Galindo Soares

Biochemistry Department,
Federal University of
Pernambuco, Recife 50670-901,
Brazil

Deadline for manuscript
submissions:

31 January 2025

Message from the Guest Editors

Gels are defined as solid three-dimensional networks, consisting of the external structure and a medium within. Although the medium can be a gas, it can also be a fluid. In the second option, the matrix can be classified as a hydrogel when it can absorb and retain water without dissolving. The hydrogel resistance to dissolution arises from cross-links between network chains, while their ability to absorb water arises from the hydrophilic functional groups distributed along the polymeric backbone.

This Special Issue aims to report a collection of articles dealing with the synthesis, characterization, and different applications of new hydrogels. For this purpose, the content includes polymeric matrices being developed and characterized, evaluated using in vitro and/or in vivo studies, and also clinical research applied to synthetic or natural-based hydrogels.

The publication of original research articles, rapid communications, or reviews in this Special Issue will be of significant contribution to the scientific knowledge of hydrogels.



mdpi.com/si/205045

Special Issue



gels



an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [CAPus](#) / [SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q1 (Polymer Science) / CiteScore - Q2 (Polymers and Plastics)

Contact Us

Gels Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/gels
gels@mdpi.com
[X@Gels_MDPI](#)