



Application of Gel Technology in Food Industry and Environmental Engineering

Guest Editors:

Dr. Cristina Paul

Department of Applied Chemistry
and Engineering of Organic and
Natural Compounds, Politehnica
University Timisoara, 300006
Timisoara, Romania

Dr. Mihaela Ciopec

Applied Chemistry and
Engineering of Inorganic
Compounds and the
Environment, Politehnica
University Timisoara, 300006
Timisoara, Romania

Deadline for manuscript
submissions:

31 August 2024

Message from the Guest Editors

Dear Colleagues,

This special issue on the “Application of Gel Technology in Food Industry and Environmental Engineering” is dedicated to recent developments in the obtainment and characterization methods of different gels and the gelation mechanism of mixed or multicomponent gels for applications in food and environmental engineering fields. In recent years, interest in gel technology has increased due to state-of-the-art developments in various fields and the accessibility of advanced materials with various functionalities through inexpensive and environmentally viable processing methods.

Gel technology has numerous environmental applications, such as catalysis, separation science... There are reported developments of a diverse range of chemical sensors derived from sol-gel processing technology for a wide range of applications.

The multifunctional features of gels suggest that their applications in food and the environment has scope for further exploration. This Special Issue aims to highlight current and future findings in gel technology with translational potential across food industry and environmental engineering.





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*)

Contact Us

Gels Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

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