Special Issue

Hydrogels, Microgels and Nanogels Emerging Platforms for Drug Delivery, Antibacterial Properties and Tissue Engineering

Message from the Guest Editors

This Special Issue is dedicated to recent achievements in gel materials that can revolutionize the potential of these networks to be used for advanced bio applications. In this respect, a broad range of subjects and advancements in chemistry, physics, rheology, material properties, and applications of hydrogels, microgels and nanogels can be presented and discussed highlighting their importance in these fields.

The use of state-of-the-art materials that can offer a plethora of advantages has opened avenues in the last years about their exploitation in applications improving life expectancy, dealing with modern problems of bacterial resistance, drug efficiency, and restoring or replacing biological tissues. Moreover, the contribution of gel is crucial. Additionally, the utilization of a big family of compounds, like synthetic polymers, polysaccharides, and proteins has led to gels with high biocompatibility and/or biodegradation.

This Special Issue will contain representative examples, illustrating new opportunities and developments. Its goal is the burst of interest in these materials that will lead to further discoveries.

Guest Editors

Dr. Dimitrios Skoulas

Institute of Chemical Research of Catalonia (ICIQ-CERCA), Avinguda dels Països Catalans, 43007 Tarragona, Spain

Dr. Paula M. T. Ferreira

Centro de Química, Universidade do Minho, Campus de Gualtar, 4710-057 Braga, Portugal

Deadline for manuscript submissions

closed (31 March 2026)

Gels

an Open Access Journal by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/207610

Gels
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
gels@mdpi.com

mdpi.com/journal/gels

Gels

an Open Access Journal by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed

mdpi.com/journal/gels

MDPI

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.

Editors-in-Chief

Prof. Dr. Esmaiel 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

Author Benefits

High visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / 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 13.5 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).