Special Issue

Gel-Based Drug Delivery Systems for Cancer Treatment

Message from the Guest Editors

Dear colleagues, Hydrogels have been widely utilized for drug delivery to various diseases, especially for cancer, in which the unique features are beneficial for the design of drug delivery systems. Numerous new drug delivery strategies based on functional hydrogels have been proposed in recent years. A pH-sensitive hydrogel maintains its stable state at physiological pH, but is labile at mildly acidic pH in tumor microenvironments, which can be exploited for enhanced cancer therapy. Hydrogel vaccines show great potential in cancer immunotherapy by causing a potent and durable antitumor response. The development of hydrogels with desirable functionalities has a promising future in intelligent therapy of cancer. This Special Issue intends to highlight the topics related to the use of functional gels in assisting cancer treatment of therapeutic agents, delivering therapy-related components with different modes of administration. Additionally, gels used for stimuli-responsive drug release and for facilitating chemo-dynamic therapy, immunotherapy and thermotherapy will also be featured.

For more information, please visit: mdpi.com/si/142743.

Guest Editors

Dr. Haoan Wu

1. Yale School of Medicine, Yale University, New Haven, CT 06520, USA
2. School of Biological Science and Medical Engineering, Southeast University, Nanjing 210096, China

Prof. Dr. Xingchun Gao

1. Yale School of Medicine, Yale University, New Haven, CT 06520, USA
2. Institute of Basic Medicine Science, Xi'an Medical University, Xi'an 710021, China

Deadline for manuscript submissions

closed (30 September 2024)

Gels

an Open Access Journal by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/142734

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

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

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 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).

MDPI