Special Issue

Hydrogels-Based Nanocomposites for Biomedical Applications

Message from the Guest Editors

Hydrogels, which are synthesized by peptide-based molecule assembly through non-covalent interactions and can be administered via a local injection, exhibit high biocompatibility and biodegradation. Thus, hydrogels are commonly used to encapsulate drugs or growth factors to treat related diseases through sustained release. This Special Issue will provide a comprehensive overview on the design, development and uses of nanomaterials for biomedical applications. At least 10 papers will be published in this SI, including research articles, reviews, short communications and various perspectives. Submissions should detail recent developments in the field of bionanomaterials, including key challenges and original perspectives. Topics of interest include: Wound healing, Multimodal imaging, Photothermal therapy, Photodynamic therapy, Drug delivery and Antibacterial activity. For more information, please visit: mdpi.com/si/121642

Guest Editors

Prof. Dr. Sheng Ye
College of Science & State Key Laboratory of Tea Biology and Utilization, Anhui Agricultural University, Hefei 230036, China

Dr. Jing Zhu
College of Science, Anhui Agricultural University, Hefei 230036, China

Deadline for manuscript submissions

closed (30 June 2023)

Gels

an Open Access Journal by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/121642

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