Special Issue

Design and Development of Gelatin-Based Materials

Message from the Guest Editor

The applications of gelatin have bypassed its use as a traditional food additive and in pharmaceutical excipients, photographic emulsions, ballistic simulators, and industrial adhesives, and it has been playing an increasingly important role in the fields of cell culture, drug delivery, and tissue repair–regeneration during the past decade. Gelatin and its derivatives have been used as raw materials in developing plasma substitutes, hemostatic materials, vaccine stabilizers, GelMA hydrogels, bone repair materials, tissue adhesives, tissue mimics, tissue engineering scaffolds, etc., as medical device products. China is a main producer of gelatin and possesses the production capacity of high-end medical gelatin represented by low-endotoxin gelatin. We are launching this Special Issue "Design and Development of Gelatin-Based Materials" to better promote the development of China's medical device field, safeguard human health, and develop the application potential of gelatin.

Guest Editor

Dr. Bing Zhang

State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Innovation Academy for Precision Measurement Science and Technology, Chinese Academy of Sciences, Wuhan 430071, China

Deadline for manuscript submissions

closed (30 April 2025)

Gels

an Open Access Journal by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/162820

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