Special Issue

Nanocomposite Hydrogels in Wound Healing and Skin Care

Message from the Guest Editors

In recent years, the convergence of nanotechnology and biomaterials has led to groundbreaking advancements in the development of nanocomposite hydrogels for applications in wound healing and skin care. Nanocomposite hydrogels, with their unique combination of nanomaterials and hydrophilic polymers. have shown great promise in enhancing wound healing processes and revolutionizing skin care strategies. This Special Issue aims to bring together the latest research findings and innovations in the field, providing a platform for scientists, researchers, and practitioners to exchange ideas and insights. Topics of interest include, but are not limited to, the following: Synthesis and characterization of nanocomposite hydrogels; Drug delivery systems integrated into nanocomposite hydrogels; Biocompatibility and biofunctionality assessments: Antimicrobial properties of nanocomposite hydrogels; Clinical applications and translational studies; Mechanistic insights into the wound healing process; Cosmetic and dermatological applications of nanocomposite hydrogels.

Guest Editors

Dr. Wen Wu

Chongqing Key Laboratory of Natural Product Synthesis and Drug Research, School of Pharmaceutical Sciences, Chongqing University, Chongqing 401331, China

Prof. Dr. Pasquale Del Gaudio Department of Pharmacy, University of Salerno, 84084 Fisciano, Italy

Deadline for manuscript submissions

closed (20 March 2025)



an Open Access Journal by MDPI

Impact Factor 5.3 CiteScore 7.6 Indexed in PubMed



mdpi.com/si/211742

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



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).