

Special Issue

Polymer-Based Wound Dressings

Message from the Guest Editors

The delayed process of wound healing and skin regeneration is a major challenge in the treatment of injuries. Some known factors are responsible for delayed wound healing, such as microbial infections, underlying and immunocompromised conditions, etc. Most commercially available wound dressings also suffer from limitations such as poor antibacterial and antioxidant activity, weak mechanical performance, and an inability to provide suitable moisture for wound healing, thereby limiting their application in wound healing. A series of preclinical studies have shown that wound dressings prepared from biopolymers promote wound healing and skin regeneration. However, biopolymers exhibit poor mechanical properties and are usually combined with synthetic polymers and other classes of material to improve their mechanical properties. To further improve the biological properties of polymer-based wound dressings, these dressings are loaded with various bioactive agents, resulting in accelerated wound healing and skin regeneration. This Special Issue aims to highlight the efficacy of polymer-based wound dressings from the reported preclinical and clinical studies.

Guest Editors

Prof. Dr. Blessing Atim Aderibigbe

Department of Chemistry, Tarleton State University, Stephenville, TX, USA

Dr. Sibusiso Alven

Department of Chemistry, Nelson Mandela University, P.O. Box 77000, Port Elizabeth 6001, South Africa

Deadline for manuscript submissions

closed (20 November 2023)



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/168510

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

[mdpi.com/journal/
pharmaceutics](https://mdpi.com/journal/pharmaceutics)





Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



[mdpi.com/journal/
pharmaceutics](https://mdpi.com/journal/pharmaceutics)



About the Journal

Message from the Editor-in-Chief

Pharmaceutics (ISSN 1999-4923) is an online open access journal on the science and technology of pharmaceuticals and biopharmaceuticals. The scientific community, the wider community and the general public have unlimited and free access to the content as soon as a paper is published; this open access to your research ensures your findings are shared with the widest possible audience. Please consider publishing your impressive work in this high quality journal. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Patrick J. Sinko

Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, William Levine Hall, Room 225C, 160 Frelinghuysen Road, Piscataway, NJ 08854-8020, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Pharmacology and Pharmacy) / CiteScore - Q1 (Pharmaceutical Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.7 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2025).