

Special Issue

Pharmaceutical Manufacturing Process of Inhaled Drugs

Message from the Guest Editor

An inhalation preparation refers to a special dosage form that is administered with a special device, such that a drug acts on the lungs and exerts local or systemic effects through the deep part of the respiratory tract, cavities, mucous membranes, etc. It is often used in the treatment of respiratory diseases such as asthma and chronic obstructive pulmonary disease. The route of inhalation administration has the advantages of being non-invasive, a quick onset, less local metabolic enzymes, and localized drug delivery. According to different devices, it can be divided into powder inhalations (DPIs), metered inhalation aerosols (MDIs), and liquid preparations for inhalation. Additionally, there are inhalation sprays, among which DPIs, MDIs, and liquid preparations for inhalation are widely used. The preparation methods of respirable particles include top-down techniques and bottom-up techniques. Traditional drug grinding methods include ball milling, colloid milling, hammer milling, and jet milling. In this Special Issue, we will focus on novel laboratory as well as industrial methods for formulating generic drugs and novel therapeutic cargos.

Guest Editor

Dr. Qian Zhong

Massachusetts Institute of Technology, Cambridge, MA, USA

Deadline for manuscript submissions

closed (25 May 2024)



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/170541

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

Department of Pharmaceutics, Ernest Mario School of Pharmacy,
Rutgers University, Piscataway, NJ 08854, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / 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 14.9 days after submission; acceptance to publication is undertaken in 3.3 days (median values for papers published in this journal in the first half of 2025).