

Special Issue

Advances in Analytical Method Development for Pharmaceutical Formulations

Message from the Guest Editors

The analysis of pharmaceutical formulations often presents multiple challenges, particularly in the detection, identification, characterization, and quantification of active pharmaceutical ingredients (APIs).

Chromatographic techniques remain fundamental tools for the separation, identification, and quantification of APIs and impurities in pharmaceutical formulations. Additionally, solid-state characterization and particle size distribution (PSD) analysis of APIs are crucial for achieving the desired physical properties, bioavailability, and overall product performance.

This Special Issue aims to highlight the latest advancements in analytical method development, suggested topics include, but are not limited to: novel chromatographic methods for pharmaceutical analysis, solid-state characterization of APIs, identification of novel polymorphs, quality control and stability studies of pharmaceutical formulations, API–excipient interactions, quantitative challenges in complex formulations, physicochemical studies of pharmaceutical formulations, and PSD determination in solid, semi-solid, and suspension-based systems.

Guest Editors

Dr. Michail Lykouras

Department of Pharmacy, University of Patras, GR26504 Patras, Greece

Dr. Malvina Orkoulou

Department of Pharmacy, University of Patras, GR-26504 Rio, Greece

Deadline for manuscript submissions

30 June 2026



Pharmaceuticals

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/258432

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

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





Pharmaceuticals

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 7.7
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

Because of your expertise in the field of drug sciences, I kindly invite you to consider publishing your current work, in the form of a research article or a review, in the open access electronic journal *Pharmaceuticals*. *Pharmaceuticals* is characterized by an active editorial board and a dynamic editorial staff. Manuscripts are peer-reviewed and a final decision is provided to authors within 4–6 weeks after submission. Papers are published on the web immediately after acceptance. For details on the submission process or any other matter, please do not hesitate to contact us. We hope to handle your contribution to *Pharmaceuticals* soon.

Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

Departamento de Química e Bioquímica (DQB) e Centro de Química Estrutural (CQE), Institute of Molecular Sciences, Faculdade de Ciências, Universidade de Lisboa, Lisboa, Portugal

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

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)