

Special Issue

Polymorphs, Salts, Cocrystals and Cationic Lipid Nanoparticle Complexes in Drug Delivery

Message from the Guest Editor

Polymorphs, salts, cocrystals, and solid lipid nanoparticles are key techniques for delivering ionic pharmaceuticals through oral and injectable forms. Co-processing drugs with one or more additional agents is also emerging as an effective strategy for drug delivery in these forms. Specifically, polymorphs created by melt crystallization, like Form III ritonavir, have shown potential in increasing blood levels and drug solubility. Similarly, forming salts in conventional crystals or with cationic lipids enhances drug delivery. Cocrystals use noncovalent forces and coformers to modify drug delivery, while co-processed systems, as exemplified by Zelboraf's new formulation, improve solubility and blood levels. This special issue will examine these strategies, highlighting how solid state chemistry can advance drug delivery.

Guest Editor

Prof. Dr. Stephen Robert Byrn

Department of Industrial and Physical Pharmacy, School of Pharmacy and Pharmaceutical Sciences, Purdue University, 575 Stadium Mall Drive, West Lafayette, IN 47906, USA

Deadline for manuscript submissions

closed (20 May 2025)



Pharmaceuticals

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/179591

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)