Special Issue

Crystal Engineering in the Pharmaceutical Sciences

Message from the Guest Editor

As Desiraju noted, "crystal engineering"—a term coined more than sixty years ago-remains central to solidstate chemistry and the development, manufacturing, and control of pharmaceuticals. It focuses on understanding intermolecular interactions and crystal packing, and using this knowledge to design solids with desirable physical and chemical properties; in this way, it is closely linked to pharmaceutical development and formulation design. Crystal engineering is especially important for salts and cocrystals. For salts, a key concern is the risk of disproportionation; for cocrystals, questions include whether they can be prepared reproducibly, whether they are stable, and whether they deliver advantageous properties. In parallel, liposomal products and lipid-based nanocarriers provide complementary strategies for engineering drug microenvironments and performance. Avoiding lateappearing or hidden polymorphs—and using crystalstructure prediction to aid the discovery of all relevant polymorphs-remains a major area of focus. Finally, applications of crystal engineering to manufacturing pharmaceutical solids in space are of particular interest.

Guest Editor

Prof. Dr. Stephen Robert Byrn

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

Deadline for manuscript submissions

25 March 2026



Pharmaceuticals

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/255040

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

mdpi.com/journal/ pharmaceuticals





Pharmaceuticals

an Open Access Journal by MDPI

Impact Factor 4.8 CiteScore 7.7 Indexed in PubMed



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 Cièncias, 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)

