

Special Issue

Advances in Pharmaceutical Crystals: Control over Nucleation and Polymorphism

Message from the Guest Editors

Controlling the crystallisation process is of utmost importance in the pharmaceutical field. The Finished Pharmaceutical Products (FPPs), which include crystal forms of the Active Pharmaceutical Ingredient (API) in their formulation, must meet strict constraints in order to be commercialised. Crystallographic parameters such as numerical density, crystal size, habit and, especially, polymorphism have a direct influence over crucial pharmaceutical properties. Having control over the crystal ensures the reliability of the drug. In this scenario, the nucleation step is proven to be pivotal in determining the final properties of the crystals, and thus, it has been widely studied. This rationale can be applied to melt or solution crystallisation and supports studies on crystal engineering, co-crystallisation, drug polymorphism, protein structural determination, etc.

This Special Issue welcomes original papers and reviews focusing on advances in the preparation and formulation of pharmaceutical crystals, with a particular emphasis on the control over the nucleation step and polymorphism. Experimental and theoretical studies are equally welcome.

Guest Editors

Dr. José Gavira

LEC, IACT-CSIC, Armilla, Spain

Dr. Fiora Artusio

Department of Applied Science and Technology, Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129 Torino, Italy

Dr. Rafael Contreras-Montoya

Cancer Research UK Edinburgh Centre, Institute of Genetics and Cancer, University of Edinburgh, Edinburgh, UK

Deadline for manuscript submissions

closed (25 June 2023)



Crystals

an Open Access Journal
by MDPI

Impact Factor 2.4
CiteScore 5.0



mdpi.com/si/108447

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

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





Crystals

an Open Access Journal
by MDPI

Impact Factor 2.4
CiteScore 5.0



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



About the Journal

Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

Prof. Dr. Alessandra Toncelli
Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

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), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Crystallography) / CiteScore - Q2 (Condensed Matter Physics)