



crystals



an Open Access Journal by MDPI

New Perspectives in Pharmaceutical Crystallization and Possibilities of Analysis of the Obtained Crystals

Guest Editors:

Dr. Mirela Nicolov

Department of Pharmaceutical Physics, Faculty of Pharmacy, Victor Babeş University of Medicine and Pharmacy, 2nd Eftimie Murgu Square, 300041 Timișoara, Romania

Dr. Codruta Soica

1. Department of Pharmacology-Pharmacotherapy, Faculty of Pharmacy, Victor Babeş University of Medicine and Pharmacy Timisoara, 2nd EftimieMurgu Sq., 300041 Timișoara, Romania
2. Research Center for Pharmaco-Toxicological Evaluations, Faculty of Pharmacy, Victor Babes University of Medicine and Pharmacy, 2 Eftimie Murgu Street, 300041 Timisoara, Romania

Message from the Guest Editors

Pharmaceutical crystallization processes can be developed to explore continuous manufacturing in the pharmaceutical industry and are one of many methods to obtain and analyse the physical and chemical properties of crystals. Pharmaceutical crystallization is an important technology within pharmaceutical processes and can be used to determine numerous product properties in the solid–liquid separation process, which is not only a separation and purification process but also a refining process.

By using pharmaceutical crystallization processes, we can obtain co-crystals too, which are crystalline complexes of active/neutral compounds. Co-crystallization determine the preservation of the intrinsic pharmacological properties of the active ingredients such as the melting point, solubility, and dissolution. Drug–drug co-crystals represent a promising line of research in given that combined therapies are frequently prescribed for the effective treatment of numerous pathologies, meaning the co-crystals of multiple active compounds might overcome the drawbacks of conventionally combined drugs.

Deadline for manuscript submissions:

closed (30 October 2023)



mdpi.com/si/166987

Special Issue



crystals



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alessandra Toncelli

Department of Physics, University
of Pisa, 56126 Pisa, PI, Italy

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.

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](#), [CAPus](#) / [SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Crystallography*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Crystals Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/crystals
crystals@mdpi.com
[X@Crystals_MDPI](https://twitter.com/Crystals_MDPI)