



*crystals*



*Special Issue Reprint*

## Crystallization Process and Simulation Calculation

[www.mdpi.com/books/reprint/8165](http://www.mdpi.com/books/reprint/8165)

Edited by

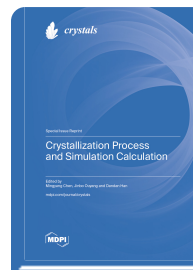
Mingyang Chen

Jinbo Ouyang

Dandan Han

ISBN 978-3-0365-9154-4 (Hardback)

ISBN 978-3-0365-9155-1 (PDF)



As an important unit operation, crystallization is a process in which nucleation, growth, agglomeration, and breakage are regulated to produce high-quality crystals and achieve efficient separation as well as purification. Since a crystallization process often presents the characteristics of strong coupling, nonlinearity, and large lagging, it is a challenge to rationally design a robust, well-characterized process to efficiently crystallize and prepare a high-quality crystalline product. The development of process analytical technology that can provide fast and accurate inline or online measurement is of great importance in the design and control of crystallization processes. Simulation technology, e.g., molecular dynamics simulation and hydrodynamics simulation, can provide time- or location-dependent insight into the process on multiple scales. These experimental and simulation tools can greatly help to further investigate crystallization processes. This Special Issue served to provide a platform for researchers to report results and findings in crystallization process technologies, simulation and process analytical technologies, and relevant crystallization studies.



Order Your Print Copy

You can order print copies at

[www.mdpi.com/books/reprint/8165](http://www.mdpi.com/books/reprint/8165)

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



## Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



## Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



## High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



## High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



## Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.