Special Issue

Solidification/Crystallization Behavior of Alloys and Related Simulation Calculation

Message from the Guest Editors

In the past hundred years, the alloy solidification and crystallization process has changed from a type of ancient metallurgical technology into an important branch of modern science. The solidification of metals not only determines the structure and properties of metals and alloys, but also affects the subsequent plastic processing and heat treatment. In addition, alloy solidification simulation calculation can accurately predict the formation of crystals or defects, and then guide production practice. Therefore, the study of alloy solidification and simulation has guiding significance for the application and development of metal materials. To this end, we have organized this Special Issue entitled "Solidification/crystallization behavior of alloys and related simulation calculation".

Guest Editors

Dr. Erhu Yan

Guangxi Key Laboratory of Information Materials, Guilin University of Electronic Technology, Guilin 541004, China

Dr. Ping Zhao

Key Laboratory of Rubber-Plastics, Ministry of Education/Shandong Provincial Key Laboratory of Rubber-Plastics, School of Polymer Science and Engineering, College of Materials Science and Engineering, Qingdao University of Science and Technology, Qingdao 266042, China

Deadline for manuscript submissions

closed (31 December 2023)



an Open Access Journal by MDPI

Impact Factor 2.4 CiteScore 5.0



mdpi.com/si/162445

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

mdpi.com/journal/ crystals





an Open Access Journal by MDPI

Impact Factor 2.4 CiteScore 5.0



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, Pl, 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)

