Special Issue

Microstructure Evolution During Cold and Hot Deformation

Message from the Guest Editors

This Special Issue focuses on 'Microstructure Evolution during Cold and Hot Deformation,' emphasizing the vital role of studying microstructural changes in determining material properties such as strength, ductility, and toughness. Additionally, it explores the implications of these changes in terms of material performance, including resistance to fatigue, fracture, corrosion, and creep. Beyond traditional materials like steel, titanium alloy, and aluminum alloy, this issue welcomes contributions on advanced materials such as superalloys, nanomaterials, and new lightweight materials, as well as on advanced processing techniques. Moreover, research utilizing numerical models to predict microstructure evolution is also within the scope of this Special Issue.

Guest Editors

Prof. Dr. Xingang Liu

Dr. Jaka Burja

Dr. Can Wang

Deadline for manuscript submissions

20 August 2025



an Open Access Journal by MDPI

Impact Factor 2.4 CiteScore 5.0



mdpi.com/si/205116

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)

