

## Special Issue

# Fatigue and Fracture of Welded Structures

### Message from the Guest Editors

Welding technology, as a highly durable, reliable, and cost-effective connection technique, is widely used in aerospace, rail transit, and other energy industries. The context for this Special Issue lies in the increasing demand for high-performance and durable welded structures. As structures are subjected to complex loading conditions and environmental factors, the occurrence of fatigue and fractures can lead to catastrophic failures. Therefore, research on the fatigue and fracture of welded structures is essential to develop effective prevention and mitigation strategies.

We are pleased to introduce this Special Issue dedicated to the exploration of the "Fatigue and Fracture of Welded Structures". This Special Issue aims to provide a platform for researchers to share their latest findings and advancements in the study of the fatigue and fracture of welded structures.

We look forward to receiving your contributions.

---

### Guest Editors

Dr. Zheng Liu

Dr. Hang Liang

Prof. Dr. Xin Wang

---

### Deadline for manuscript submissions

20 September 2025



## Crystals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.4  
CiteScore 5.0



[mdpi.com/si/222038](https://mdpi.com/si/222038)

*Crystals*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[crystals@mdpi.com](mailto: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, CAPus / SciFinder, and other databases.

#### Journal Rank:

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