

## Special Issue

# Microstructure and Properties of Metals and Alloys

### Message from the Guest Editors

Researchers and engineers in the materials science community have been devoted to enhancing material properties governed by material structures. This Special Issue invites research focusing on the review, investigation, and innovations of the microscopic structure and properties of ferrous and non-ferrous metals/alloys. Structures widely cover the phase constituent, grain morphology, crystallographic orientation, grain boundary, crystal lattice, etc., and properties include, but are not limited to, mechanical, magnetic, electrical, and anti-corrosive performances. Topics regarding advanced preparation and characterization techniques, tailored structure or design, numerical simulation, thermodynamics, kinetics, and the relationship between processing, microstructures, and properties are also highly desirable.

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### Guest Editors

Dr. Zhongquan Zhang

Prof. Dr. Shouxun Ji

Dr. Ze Chai

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### Deadline for manuscript submissions

closed (10 November 2025)



## Crystals

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## 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.

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### Editor-in-Chief

Prof. Dr. Alessandra Toncelli  
Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

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