

Special Issue

Microstructure Evolution and Mechanical Properties of Steels

Message from the Guest Editors

In recent times, with the continuous development of science and technology, the microstructure evolution and mechanical properties of steel have gradually become one of the hot research topics in materials science. Scholars use many characterization techniques to observe and analyze the microstructure of steel, analyze the mechanism of its formation and evolution, and establish the relationship between microstructures and mechanical properties. In addition, scholars also regulate the microstructure of steel through some methods, such as heat treatment, adding alloying elements, processing deformation, etc., to obtain steel with better properties. Of course, there are many processing methods for steel, including but not limited to traditional casting, welding, and emerging additive manufacturing technology. It also requires a deeper study of steel's microstructure and mechanical properties, such as its high-temperature mechanical properties, dynamic mechanical properties, and microstructure evolution. This Special Issue on Microstructure Evolution and Mechanical Properties of Steels is dedicated to further enriching and perfecting the data and theories in this field.

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Deadline for manuscript submissions

20 September 2025



Crystals

an Open Access Journal
by MDPI

Impact Factor 2.4
CiteScore 5.0



mdpi.com/si/210266

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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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