# Special Issue

# Research Related to Recrystallization, Grain Growth and Textures of Metallic Materials

## Message from the Guest Editor

The production of metallic materials is impressive not only by the quantity produced but also by its diversity. About 90% of the production of metals and alloys are mechanically worked and undergo recrystallization at least once. The knowledge of the phenomena concerning work hardening, recovery, recrystallization and grain growth is of fundamental importance not only to correctly process these materials but also to control their microstructure and optimize their properties.

This Special Issue aims to publish the latest experimental and theoretical results on the work-hardened state, nucleation of recrystallization, growth of recrystallized regions, grain growth and secondary recrystallization, recovery, recrystallization, and grain growth kinetics. And effects of impurities and alloying elements on recrystallization and grain growth, recovery and recrystallization during deformation, crystallographic textures resulting from plastic deformation and annealing, experimental techniques used in the study of recrystallization and plastic deformation and recrystallization in earth sciences and non-metallic materials.

### **Guest Editor**

Prof. Dr. Angelo Fernando Padilha

Department of Metallurgical and Materials Engineering, University of São Paulo - USP, São Paulo, SP 05508-030, Brazil

## Deadline for manuscript submissions

closed (30 September 2022)



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

mdpi.com/journal/ metals





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## **About the Journal**

## Message from the Editor-in-Chief

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

#### Editor-in-Chief

### Prof. Dr. Yong Zhang

Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

#### **Author Benefits**

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

