Special Issue

Advances in Copper, Copper Alloys and Their Processing

Message from the Guest Editors

Copper, with its exceptional ability to conduct electricity, adaptability to different shapes, and facile recyclability, is a crucial metal employed across various industries. As such, refining the way we fabricate copper and its alloys, as well as delving deeper into the field to discover its applicative potential, is vital. An in-depth understanding of the relationships between the metal, its processing, the resulting microstructure, and its macroscopic properties is necessary in order to optimize its performance and ensure confidence in advanced applications. In this Special Issue, we aim to showcase the latest research and most exciting findings regarding copper. We invite scientists, educators, and industry workers to share their studies and findings. We will address a wide array of topics, from basic information about copper and its alloys, to different processing methods (like casting, shaping, heat treatments, 3D printing) and recycling. We will also explore how computer simulations can help to improve the material and its processing techniques.

Guest Editors

Prof. Dr. Ulrich Prahl

Prof. Dr. Andreas Zilly

Ms. Julia Dölling

Deadline for manuscript submissions

closed (30 November 2024)

Metals

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Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/182488

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About the Journal

Message from the Editorial Board

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.

Editors-in-Chief

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