

Special Issue

Structure and Properties of Metallic Based Functional Materials and Alloys

Message from the Guest Editor

Due to the exponential growth of energy consumption, a vital priority for researchers is designing new materials that can fulfill the energy requirements, reduce the environmental risks, and health problems as well. The functionalization of the materials has major potential as a response to the growing challenges in the fields of energy, environment, and health applications. This demand leads to the rapid global development of the new and novel materials among which alloys and functional materials are the most important groups. This Special Issue presents the original papers in which the authors correlate the properties of a novel metallic based materials with their structure. We are particularly interested in presenting results of the metallic based:

- 1) Advanced functional materials
- 2) Novel alloys and compounds
- 3) Smart materials
- 4) Biological and biocompatible based materials
- 5) Micro and nanostructured materials

Guest Editor

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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

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.7 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).