

Special Issue

Thermomechanical Treatment of Metals and Alloys

Message from the Guest Editor

This Special Issue addresses the effect of various thermomechanical treatments on structural phase states, deformed microstructure, and mechanical properties of a wide range of metallic materials, including pure metals, steels, and alloys. Your articles considering the role of strengthening mechanisms (solid solution, grain boundary, substructural, dispersion, etc.) in ensuring the mechanical properties of metals and alloys under any thermomechanical treatments are highly welcome. The alloy properties in focus can be short-term strength and ductility at low and high temperatures, long-term and fatigue strength, creep and toughness, as well as functional properties. You are invited to submit both theoretical and experimental papers. We are looking forward to your contributions to this Special Issue.

Guest Editor

Dr. Igor Yu. Litovchenko

Institute of Strength Physics and Materials Science of the Siberian Branch of the Russian Academy of Sciences, 634055 Tomsk, Russia

Deadline for manuscript submissions

closed (30 June 2023)



Metals

an Open Access Journal
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Impact Factor 2.5
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Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

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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

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