



metals



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Thermomechanical Treatment of Metals and Alloys

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Message from the Guest Editor

Dear Colleagues,

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.



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Special Issue



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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.

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