



Advances in Titanium and Titanium Alloys

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Deadline for manuscript submissions:
closed (30 August 2024)

Message from the Guest Editors

Dear Colleagues,

Significant advancements have been made in the fields of advanced manufacturing and forming, alloy development, microstructural design, and enhancement of mechanical properties of titanium-based alloys. The rapid progress in advanced manufacturing technologies and alloy design concepts has brought about a continuous reduction in the manufacturing cost of titanium alloys while simultaneously improving their service performance. This has greatly facilitated the widespread engineering applications of advanced titanium alloys and their components.

This Special Issue aims to present the latest academic achievements and research progress related to titanium-based alloys, including (but not limited to) alloy development, microstructure design, microstructure–property relationships, as well as advanced manufacturing technologies. We welcome original research articles and reviews that focus on cutting edge academic accomplishments concerning novel concepts in alloy design and advanced manufacturing technologies that enhance the service performance and promote applications of titanium alloys and TiAl intermetallics.

We look forward to receiving your contributions.





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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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Journal Rank: JCR - Q2 (*Metallurgy and Metallurgical Engineering*) / CiteScore - Q1 (Metals and Alloys)

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