Special Issue

Characterization and Processing Technology of Superalloys

Message from the Guest Editors

Superalloys are widely used in aviation, aerospace and energy industries as key high-temperature structural materials with excellent strength, toughness, fatigue, creep and microstructure stability. The hot deformation and subsequent heat treatment processes guarantee the desirable microstructure–properties relationships of superalloy parts and structures. Meanwhile, powder metallurgy and 3D printing technology are also used extensively in fabricating superalloy components, which deserve special attention, and relevant new findings are very welcome. In keeping with the long-standing tradition of publishing the most recent and highest quality work in Special Issues of *Metals*, this Special Issue features a collection of manuscripts entitled "Characterization and Processing Technology of Superalloys". This Issue features the finest and latest breaking articles in superalloy development from 2022 and is listed with the main indexing services, making the articles readily searchable, citable and available on the web. Thanks for your interest in this Special Issue.

Guest Editors

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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.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.8 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 2024).

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