

Special Issue

Advances of Inconel Alloys—Recent Research, Insights, and Challenges

Message from the Guest Editors

Inconel alloys are the first choice for demanding applications in geothermal, nuclear, aerospace, ship building, and chemical processing industries, due to their fatigue strength, acid resistance, excellent resistance, high/low-temperature mechanical properties, and high-temperature oxidation resistance. The scope of the Special Issue on the advances in Inconel alloys includes the latest achievements in research and production, achievements in innovative scientific research, and the solutions of new challenges to Inconel alloys in the development of various fields. In this Special Issue, we welcome articles that focus on alloy design, process development, component engineering, lifetime estimation, and material behavior. Research and technology worked to develop the basic understanding of their physical behavior and the more practical aspects required to efficiently maximize the benefits of Inconel alloys.

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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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