Special Issue

Fabricating Advanced Metallic Materials

Message from the Guest Editors

Advanced metallic materials are increasingly required for applications in automotive, aerospace/aeronautical, electronic, and bio-medical fields due to their high strength, super ductility, improved thermal resistance, and enhanced conductivity, etc. Fabricating advanced metallic materials involves mechanical/thermal/chemical processing, and the coupling of these processes. These fabricating techniques induce complex chemical composite distribution, hierarchical microstructures and interfaces, textures, etc., and the combination of these factors enable excellent properties of advanced metallic materials. Recent development in fabricating advanced metals has produced fruitful progresses, including innovative fabricating techniques, modern characterization methods, advanced multi-scale modelling, established machine learning models, etc. These progresses have in turn accelerated the development of advanced metals. This Special Issue focused on fabricating advanced metallic materials by using mechanical, thermal, and chemical processes, both individually and in combination.

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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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