

Special Issue

Design and Processing of High-Performance Metallic Materials

Message from the Guest Editor

Material processing and heat treatment are the key factors determining the properties of metal materials. According to the different requirements of application, various processing and heat treatment technologies have been developed accordingly. Metallic materials produced by processing such as cold working or hot working and subsequent heat treatment are widely used in automobile, construction, energy, ocean, electric power and other economic pillar industries. This Special Issue focuses on the latest scientific and technological progress related to the material processing and heat treatment of metallic materials. Topics of interest include the research and development of new process and new equipment, development of advanced heat treatment technology, numerical simulation of material forming and heat treatment, microstructure and performance control of metal material forming and heat treatment, development of new products based on processing and heat treatment, etc.

Guest Editor

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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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