



Grain Refinement of Non-ferrous Metals and Alloys

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Message from the Guest Editors

Nonferrous alloys are now widespread in all industries. The scales of their production are increasing every year. The application of alloys is due to a set of special and often unique properties possessed by one or another group of light and heavy non-ferrous alloys. The required level of mechanical, operational and special properties of various non-ferrous alloys depends on their structure and phase composition, which are determined, by the content of various alloying components. In most non-ferrous alloys, a more ordered shape, uniform distribution and dispersed size of structural components are desirable from the point of view of achieving the desired properties of semi-finished products and products. The technologies for producing non-ferrous alloys, as well as blanks from them and products used in industry, are very diverse.

In this Special Issue, we will consider various resource-efficient technologies for the production and processing of various non-ferrous cast, wrought and special alloys, leading to the modification of their structural components and the improvement of the complex properties of blanks and products.





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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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