Special Issue

Grain Refinement of Non-ferrous Metals and Alloys

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.

Guest Editors

Prof. Dr. Vladislav B. Deev

Department of Metal Forming, National University of Science and Technology (MISIS), Moscow, Russia

Dr. Dušan Arsić

Faculty of Engineering, University of Kragujevac, 34000 Kragujevac, Serbia

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

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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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Prof. Dr. Hugo F. Lopez
Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

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Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

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