Special Issue

Research on Eutectic Alloys

Message from the Guest Editors

Eutectic alloys have a wide range of applications in people's daily lives, in industrial machine tools, in the automotive industry, aerospace industry, and occupy an important position in industry. The development of these fields cannot be separated from the development and progress of experimental and theoretical models, and computer simulation research methods for eutectic alloys. The experimental research reports on eutectic alloys have been increasing in recent years, with more and more types of new eutectic alloys and new application areas emerging. In this Special Issue, we welcome articles on new forming methods for eutectic alloys, eutectic alloy solidification theory, eutectic microstructure evolution, eutectic material strengthening mechanisms, and heat treatment processes. The microstructure control process and related phase transformation theoretical models of eutectic alloys are particularly interesting, and research on additive manufacturing technology and high-performance products of eutectic alloys is also welcome for submission.

Guest Editors

Dr. Junfeng Xu

School of Materials and Chemical Engineering, Xi'an Technological University, Xi'an 710021, China

Prof. Dr. Changlin Yang

Materials Processing Engineering, State Key Laboratory of Solidification Processing, Northwestern Polytechnic University, Xi'an 710072, China

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Metals
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.

Editor-in-Chief

Prof. Dr. Yong Zhang
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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