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Advances in High-Performance Non-ferrous Materials—2nd Volume

Guest Editors:

Prof. Dr. Hailiang Yu

Stake Key Laboratory of High Peformance Complex Manufacturing, Light Alloys Research Institute, Central South University, Changsha 410083, China

Dr. Zhilin Liu

Stake Key Laboratory of High Peformance Complex Manufacturing, Light Alloys Research Institute, Central South University, Changsha 410083, China

Dr. Guoai He

Light Alloy Institute, Central South University, Changsha 410083, China

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Message from the Guest Editors

Dear Colleagues,

Nowadays, there is great pressure on energy conservation and emission reduction. In order to achieve these goals, weight reduction in manufacturing fields such as the vehicle, marine, and aerospace industries, microelectromechanical systems, is the major trend. Although some structures and parts that require special properties and service conditions must use ferrous materials such as steels due to their superior thermal and wear resistance, there is a desperate need to replace these alloys with non-ferrous materials such as Al alloys, Mg alloys, Ti-based alloys, and Cu alloys in order to reduce operational and maintenance costs. Recently, many material processing techniques have been developed to enhance the performance of non-ferrous materials. This Special Issue covers these topics and focuses on the process-structure-performance relationships of highperformance non-ferrous materials.













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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, OC H3A 0C7, Canada

Message from the Editor-in-Chief

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