



Microstructure-Mechanical Properties and Application of Magnesium Alloys

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Message from the Guest Editors

Given the extensive scientific and technological importance of this topic, the guest editors of this Special Issue have teamed up to collect reports on the current status in the field and discuss future trends in R&D activities and industrial magnesium applications and processing technologies. This encompasses advanced materials characterization at different length scales, microstructure manipulation using alloying, thermomechanical treatments, as well as modern material modeling to establish the best composition/processing/microstructure combinations for targeted applications. The aim of this Special Issue is thus to cover a broad scope of contributions that highlight current accomplishments and provide the readers with some perspectives of where research on magnesium alloys is heading in the near future with respect to global challenges.

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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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