



Study on the Development and Applications of Magnesium Alloys

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Message from the Guest Editors

Dear Colleagues,

Magnesium and its alloys have great potential to be used in the fields of aerospace, aircraft, automotive, portable electronics, biomedical and energy, etc., due to their characteristics such as low density, high specific strength and stiffness, good damping capacity, biocompatibility, high hydrogen storage capacity and easy recyclability. In the last few decades, magnesium alloys have attracted considerable research, and great progress has been achieved.

This Special Issue is designed to publish high-quality research papers, short communications as well as review articles regarding the recent advances in development of magnesium alloys as structural and functional materials, and their potential commercial applications. All aspects related to the alloy design, casting, heat treatment and thermomechanical processing of magnesium alloys, deformation, precipitation-hardening, corrosion and hydrogen charging/discharging behaviours of magnesium alloys are welcomed.





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Message from the Editor-in-Chief

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