



Advances of Aluminum Alloys: Innovation and Application Potential

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Message from the Guest Editors

High market demands related to material and property quality strongly influence the redesigning of common aluminium alloys. The quality of aluminium alloy components and associated obtained mechanical properties are strongly dependent on the casting process and its parameters, as well as chemical composition. Therefore, the (re)designing of the chemical composition of high-strength aluminium alloys has become significant for safety-critical structural components in numerous industries.

The goal of this Special Issue is to highlight trends in (re)designing the chemical composition and solidification sequence with reference to advanced properties, investigation, and simulation, including the multi-scale approach, process parameters, and new opportunities in innovative aluminium alloys' application.

It is our pleasure to invite you to submit a manuscript to this Special Issue. Full papers, communications, and reviews are all welcome.





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Message from the Editor-in-Chief

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