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Foundry Aluminum Alloys: Casting Metallurgy and Processes

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Message from the Guest Editors

This Special Issue is devoted to experimental and numerical research concerning the foundry processes and sub-processes of foundry aluminum alloys, along with the evaluation of the microstructural and mechanical properties of castings.

Contributions from industry and/or academia dealing with cutting-edge development in foundry processes and technologies, both as original research papers and review articles, will be highly appreciated.

Topics of interest include:

- Casting process improvements devoted to both technological innovation and sustainable manufacturing;
- Case studies on or failure analysis of cast aluminum alloys;
- Investigations on the melt treatments, solidification processes and heat treatments of foundry aluminum alloys and their effect on microstructure and mechanical behavior;
- Development of new alloys: microstructural, chemical and physical properties evaluation and/or numerical simulation.





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Message from the Editor-in-Chief

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