



## Metal Alloys: Fusion of the Cutting Edge Research Tools with Conventional Metal Study

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### Message from the Guest Editor

The die-casting process is a representative processing technology of aluminum and applies to parts with excellent mechanical properties and complex shapes, so it accounts for more than 50% of the production rate in aluminum alloy castings, and other aluminum processes, including sand casting and mold casting, it shows a relatively higher potential growth potential than other processes.

This Special Issue will share research related to the scientific approach for securing the reliability of such aluminum die-casting products, and, in particular, research related to artificial intelligence and simulation research that has been confirmed as empirical research for mechanism. It will also share the latest results on the characterization, and applications of aluminum alloy materials for the reliability of a die-cast product. Researchers are very welcome to submit their most interesting perspectives, reviews, and original works providing novel insights regarding this material science research field.

**Keywords:** Die-casting; Aluminum alloys; Characterization; Artificial intelligence; Smart factory; Microstructure; Simulation; Metals; Mechanical properties.





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## Message from the Editor-in-Chief

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