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Advanced Casting of Materials

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Casting technology has a long history, irreplaceable not only in the past, but also in the future, playing very important roles in critical equipment and products such as aeroengines, nuclear power plants, rockets, vehicles, etc. Casting technology is driven by strong requirements from various areas, for example, hypersonic aircraft, heavy duty rockets, electric vehicles and high speed trains; on the other hand, it is being reshaped by new technologies such as information technology, additive manufacturing, virtual technology, artificial intelligence, etc. The aims of castings and their production are a higher quality, faster production, stronger mechanical properties and being more environmentally friendly.

This Special Issue aims to provide a platform for the latest advances in casting technologies. This issue will include the following topics:

- Advanced casting alloys;
- Solidification and microstructure control;
- Residual stress and deformation control;
- Advanced casting technologies;
- Additive manufacturing vs. casting;
- Modelling and simulation;
- Casting materials aimed at environmental protection.













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Message from the Editor-in-Chief

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