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# **Advanced Casting of Materials**

Guest Editor:

## Dr. Jinwu Kang

Key Laboratory for Advanced Materials Processing Technology, School of Materials Science and Engineering, Tsinghua University, Beijing 100084, China

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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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#### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## **Message from the Editor-in-Chief**

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