

## Special Issue

# Advances in Metal Casting Technology

### Message from the Guest Editors

As one of the oldest metal-based manufacturing techniques, casting lives on by constantly reinventing itself, optimizing the processes, materials, and properties that are achievable. In this Special Issue, we will cover the full range of metal casting and its supporting technologies, from optimized component design to the simulation of materials and processes up to the prediction of microstructures and properties, from mold and core materials to advanced approaches like sensor integration, compound and hybrid castings and secondary processes like heat treatment. We thus do not exclude any casting process, but invite contributions on the full range of process from precision casting to High Pressure Die Casting (HPDC), from sand and lost foam casting (LFC) to Low Pressure Die Casting (LPDC). We are also interested in studies which leave the purely metallurgical field, but discuss the question of how casting technology may link up with current trends in smart manufacturing and Industry 4.0 approaches.

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### Guest Editors

Dr. William D. Griffiths

Dr. Dirk Lehmkus

Dr. Ekaterina Potaturina

Prof. Dr.-Ing. Sven Roeren

Prof. Dr.-Ing. habil. Matthias Busse

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### Deadline for manuscript submissions

closed (31 December 2020)



## Metals

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## About the Journal

### Message from the Editor-in-Chief

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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### Editor-in-Chief

Prof. Dr. Yong Zhang

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JCR - Q2 (Metallurgy and Metallurgical Engineering) /  
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manuscripts are peer-reviewed and a first decision is  
provided to authors approximately 18 days after  
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