



Advances in Metal Casting Technology

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Deadline for manuscript
submissions:
closed (31 December 2020)

Message from the Guest Editors

Dear Colleagues,

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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Message from the Editorial Board

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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