Special Issue

Shape Castings of Metallic Alloys

Message from the Guest Editor

Metallic components are indispensable to modern human life. From everyday items such as cars to advanced applications like jet engine turbine blades and medical scanners, all depend on shape metal casting—both to establish component dimensions and to determine the properties which define product performance, such as strength and toughness. Despite great excitement over additive manufacturing (e.g., 3D printing), shape metal casting will never be completely replaced, because in addition to its economic benefits, the high-performance properties of metals can only be developed as a result of careful control of microstructural development during casting and cooling. For this Special Issue of *Metals*, we invite our colleagues to submit both original research papers and reviews on the shape casting of metallic alloys. The topics of interest include, but are not limited to, conventional and advanced alloys, liquid casting, semisolid casting, modeling and simulation, process development and optimization, and advanced characterization.

Guest Editor

Dr. Amir Bolouri

Engineering, Design and Mathematics, University of the West of England, Bristol, UK

Deadline for manuscript submissions

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Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

mdpi.com/journal/metals

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About the Journal

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.

Editors-in-Chief

Prof. Dr. Hugo F. Lopez
Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

Prof. Dr. Yong Zhang
Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

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