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The Additive Manufacturing of Metallic Alloys

Guest Editors:

Dr. Wenbin Qiu

Wuxi Institute of Technology, Wuxi 214121, China

Dr. Sheng Cao

College of Chemistry and Materials Science, Jinan University, Guangzhou 510632, China

Dr. Longqing Chen

Institute of Nuclear Science and Technology, Sichuan University, Chengdu, China

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Message from the Guest Editors

Dear Colleagues,

The development of advanced metallic alloys can lead to improved industrial technologies and products for use in aerospace, medical science, electronics, construction, etc. With the assistance of additive manufacturing (AM, also known as 3D printing), scientists further discovered the possibility to efficiently create complex geometries, lightweight designs and unique mechanical properties. However, there are still major challenges to be overcome within this attractive research topic.

This Special Issue focuses on interesting research advances in the field of AM-prepared metallic alloys. Either a fundamental or engineering study is acceptable, as long as the work helps to tackle a specific barrier that hinders the development of metallic alloys fabricated via AM, or reports any novel discovery that is of particular interest to the relevant communities. Potential topics include, but are not limited to:

- Material development;
- Process and/or post-treatment optimization;
- Microstructural characterization and analysis;
- Modeling and simulation techniques;
- Quality control and sustainability.





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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

 Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
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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Materials Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/materials materials@mdpi.com X@Materials_Mdpi