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Microstructure and Mechanical Properties of Metallic Alloys Produced by Additive Manufacturing

Guest Editor:

Message from the Guest Editor

Prof. Dr. Maurizio Vedani

Department of Mechanical Engineering, Politecnico di Milano, Via Giuseppe La Masa 1, 20156 Milano, Italy

Dear Colleagues,

Additive manufacturing (AM) of metals is revolutionizing the way of conceiving parts and structures. It enables a high degree of design freedom, allowing the production of objects with optimized shapes for specific applications. Several processes have been developed in the last few decades, belonging the group of Additive Layer Manufacturing (e.g., selective laser melting, electron beam melting) and to that of Direct Metal Deposition.

Deadline for manuscript submissions:

closed (30 June 2018)

From the material perspective, the peculiar solidification conditions induced by AM processes allow to generate specific microstructures and properties that still need to be investigated deeply. In addition, large opportunities are available for the design of new dedicated alloys showing an improved ability to be processed, as well as higher performances.



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Dr. Ingo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Stevens Point

High Visibility: Indexed within processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, inspection, CAE/FEA/Schmider, and other metallurgical

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 relationship between the metallurgical field ranging from processing,

Special Issue

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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
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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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