Special Issue

Microstructure, Fatigue and Corrosion Behavior of Additively Manufactured Alloys

Message from the Guest Editor

This Special Issue aims to review the state of the art in metal additive manufacturing. Manuscripts will focus on the latest developments and most recent data on processes based on the melting of powder and wire feedstocks as well as the structure and properties of additively manufactured alloys.

Topics of interest include the latest advances in the electron-beam additive technology, including but not limited to the following:

- 1. Powder-based additive manufacturing
- 2. Wire-based additive manufacturing
- 3. Printing parameter selection
- Product geometry control
- 5. Product structure and properties control
- 6. Fatigue behavior of additively manufactured alloys
- 7. Corrosion behavior of additively manufactured alloys
- 8. Additive manufacturing multi-material components
- 9. Simulation of metal additive manufacturing
- Automation, control, and management of electronbeam systems

Guest Editor

Prof. Dr. Evgeny A. Kolubaev

Institute of Strength Physics and Materials Science, Siberian Branch, Russian Academy of Sciences, 634055 Tomsk, Russia

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closed (31 December 2022)



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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 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.

Editor-in-Chief

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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Rapid Publication:

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