

Special Issue

Structural Analysis, Phase Composition and Properties of Alloys and Steels Manufactured by 3D Printing

Message from the Guest Editor

As , it is my great pleasure to invite you to submit your paper to the Special Issue "Structural Analysis, Phase Composition and Properties of Alloys and Steels Manufactured by 3D Printing " in a Highly Cited "Metals - Open Access Journal", IF: 2.244 (2020). The main aim of this Special Issue is to cover recent progress in decisions of the problems related to the additive manufacturing of steel products. This Issue will collect research concerning different methods of 3D metal printing by powder laser, electron beam, and metal wire, including the following:

- > Problems of laser or electron beam 3D printing from the steel powder and metal steel wire, post-printing treatments;
- > Structure evolution of 3D printed steels after heat treatments and mechanical tests, martensitic and precipitation hardening in 3D steels;
- > Physical properties of 3D printed steels;
- > Design of 3D steel products.

Guest Editor

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Deadline for manuscript submissions

closed (31 October 2021)



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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

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.7 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).