



metals



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Recent Advances in Metal Processing and Manufacturing: Technique, Method, Performance, and Microstructure

Guest Editor:

Dr. Jing Han

School of Mechanical and
Electrical Engineering, China
University of Mining and
Technology, Xuzhou 221116,
China

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Message from the Guest Editor

In recent years, with the popularity and application of additive manufacturing technology (commonly known as 3D printing technology), metal additive manufacturing technology has begun to gain traction in the manufacturing field and has rapidly developed into one of the most promising advanced manufacturing technologies in the 3D printing field. At present, metal parts formed by metal additive manufacturing technology are gradually being used in aerospace, medical equipment, automobile manufacturing, and other fields.

Metal additive manufacturing is a process that uses fine, metal powders to create strong, complex components that are designed either by using a computer-aided design (CAD) program or by taking a 3D scan of the object. It offers the possibility to produce complex parts without the design constraints of traditional manufacturing routes.

This Special Issue kindly invites researchers from the aforementioned fields to present new theoretical or experimental results and recent advancements in the form of research articles and reviews.



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Special Issue



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Department of Materials Science
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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

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.

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Contact Us

Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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