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Synthesis, Process, Structure, and Properties of Titanium-Based Alloys

Guest Editor:

Prof. Dr. Junpin Lin

State Key Laboratory for
Advanced Metals and Materials,
University of Science and
Technology Beijing, Beijing
100000, China

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Message from the Guest Editor

Titanium-based alloys have been widely used due to their low density, good mechanical properties, excellent corrosion resistance and biocompatibility. However, Ti-based alloys are naturally difficult to process into metallurgical bonds and process into wrought alloy components. This Special Issue aims to present the latest research related to the synthesis, process, relationship between composition, microstructure and mechanical properties for Ti-based alloys, especially new alloys (e.g., Ti–Al intermetallic compound, Ti-based composite), as well as advanced techniques for improving the properties and reducing the cost, e.g., additive manufacturing (AM), low cost powder metallurgy technology.



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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, St. Alban-Anlage 26
4052 Basel, Switzerland

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