

Special Issue

Processing, Microstructure and Properties of Aluminium Alloys

Message from the Guest Editor

The principal prerequisite for the future prosperity of aluminium and its alloys is the ongoing enhancement of existing aluminium alloys alongside the innovation of novel ones. In addition to traditional fabrication techniques (such as casting, forming, and powder metallurgy), additive manufacturing technologies offer supplementary possibilities for the tailoring of the microstructures of the alloys and their novel property combinations. In this Special Issue, we extend an invitation for original research articles and reviews. The focal research domains should encompass the interrelations between the manufacturing technologies, microstructures, and properties of aluminium alloys. Manuscripts addressing the implications of microstructures and properties on carbon imprint are particularly sought after. The contributions presented in this Special Issue should provide a comprehensive overview of the current scientific and technological advancements (refer to the Keywords/Topics listed below). Your input will be valuable and highly esteemed. We anticipate the submission of your contributions.

- aluminium
- processing
- heat treatment
- carbon footprint
- microstructure
- properties

Guest Editor

Prof. Dr. Franc Zupanič

Faculty of Mechanical Engineering, University of Maribor, Smetanova 17,
SI-2000 Maribor, Slovenia

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Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

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About the Journal

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.

Editors-in-Chief

Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, 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

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