



Light Metals and Their Composites

Guest Editor:

**Prof. Dr. Alexander
Vorozhtsov**

Laboratory of High Energetic and
Special Materials, Tomsk State
University, Tomsk, Russia

Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editor

Light alloys and metal composites with a matrix of aluminum, magnesium, titanium, and other metals, which are currently being developed, have enhanced mechanical and physical properties. The main studies in this field are focused on the introduction of small amounts of some fibers and micro- and nanoparticles (additional), which can significantly improve the properties of the metal matrix. However, there is a difficulty in the uniform distribution of fibers and particles in the metal matrix. To solve this problem, it is possible to use various approaches in the preparation of additional, including the obtaining of master alloys and the use of original compositions for the in situ synthesis of hardeners in the metal matrix, as well as the treatment of melts with particles by external actions, including vibration, ultrasonic treatment, etc. This Special Issue covers all areas of obtaining and research of physical, mechanical, and functional properties of light alloys and metal composites, including those reinforced with particles and fibers. Articles describing other directions in the field of obtaining and research of light alloys are also welcome.





an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Metallurgy and Metallurgical Engineering*) / CiteScore - Q1 (Metals and Alloys)

Contact Us

Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/metals
metals@mdpi.com
[X@Metals_MDPI](https://twitter.com/Metals_MDPI)