

Special Issue

Advances in Powder Metallurgy of Light Alloys

Message from the Guest Editor

To address the needs of the market in different areas, such as the aerospace and car manufacturing industries, it is very important and essential to be able to develop and also process various lightweight alloys and materials (e.g., Al alloys, Ti alloys, etc.). In this regard, powder metallurgy processes play a special role. The fabrication of powders using different metallurgical techniques is an area of considerable interest. Another area of interest is utilizing powder metallurgy, which could be considered a green technology, to manufacture the needed parts. These processes (e.g., press and sintering, cold isostatic pressing, hot isostatic pressing, etc.) have some advantages as compared to conventional techniques, making them attractive in the current market circumstances. The potential to make net-shape parts, reducing material loss, is one of these major advantages. The aim of this Special Issue is to advance our knowledge of the wide range of powder metallurgy routes and processes that could lead to the production of lightweight powders as well as engineering parts.

Guest Editor

Dr. Khashayar Khanlari

Département de Génie Chimique et de Génie Biotechnologique,
Université de Sherbrooke, 2500 Boulevard de l'Université, Sherbrooke,
QC J1K 2R1, Canada

Deadline for manuscript submissions

closed (31 August 2025)



Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/193617

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

mdpi.com/journal/

[metals](https://mdpi.com/journal/metals)





Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



[mdpi.com/journal/
metals](https://mdpi.com/journal/metals)



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

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei
Compendex, CAPus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) /
CiteScore - Q1 (Metals and Alloys)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 18 days after
submission; acceptance to publication is undertaken in 2.6
days (median values for papers published in this journal in
the first half of 2025).