

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

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Deadline for manuscript submissions

31 August 2025



Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



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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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