Special Issue

Advances in Powder Metallurgy

Message from the Guest Editor

The increasing market share of sintered materials that at the same time reduce the use of traditional manufacturing technologies remains a clearly noticeable trend and evident source of development of new materials and technologies. Powder metallurgy methods have been used for the manufacturing of materials where other technologies of properties shaping cannot be applied. The advantages of the method quickly brought new consumers, expanding its potential application to the group of the metals, their alloys, and composite structures. The high purity of powders controlled at the stage of their production, together with the possibility of affecting their size and morphology that determines the end properties of products, have made powder metallurgy in new material markets highly attractive. In this Special Issue, we welcome articles that focus on material preparation methods and their influence on the final products' performance both from the powder stage and/or compaction stadium. Fully controllable fast and low-cost processes especially remain of interest, with a high implementation potential in advanced powder metallurgy that allows producing high-performance products.

Guest Editor

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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.

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