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New Trends of Powder Engineering and Additive Manufacturing (Editorial Board Members' Collection Series)

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Deadline for manuscript submissions:
30 June 2024

Message from the Guest Editors

Dear Colleagues,

Powder metallurgy is a set of fabrication techniques related to three major processing steps. First, the precursor material is physically powdered (micro- or nanometric particles). Second, the powder is consolidated to obtain bulk specimens (traditionally by injection into a mould or passed through a dye). Third, pressure and/or temperature is applied. Powder metallurgy is now also applied in the production of composites. Furthermore, new topics have emerged, such as the circular economy or raw materials. In this Special Issue, we expect manuscripts related to new trends in materials (such as high-entropy alloys) and processes (additive manufacturing, unconventional sintering processes). Articles on a) mechanical properties: (fatigue, plasticity, creep), b) physical response (magnetic, electric) and/or c) oxidation–corrosion are welcome, as are review articles.

Prof. Dr. Joan-Josep Suñol

Prof. Dr. Leszek Adam Dobrzański

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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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