

Special Issue

Metal Powder: Synthesis and Processing

Message from the Guest Editor

Recent advances in shaping methods in powder metallurgy have been driving forces for the development of powders. Different approaches (chemical, physical and/or mechanical) have been explored to master and control the particle size, morphology, composition, and surface chemistry of the powders. Such developments, often coupled with mechanistic studies of the physico-chemical and mechanical behaviors of these powders, have made it possible to finely tune the sintering trajectories, to modulate the matter–radiation interactions, and more, and as a consequence to finely tailor the material properties. The modeling of these mechanisms is also an important issue for the control of both mature and more recent and innovative processes.

Guest Editor

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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

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