

## Special Issue

# Novel Insights into Powder Metallurgy of Metallic Materials

### Message from the Guest Editor

Powder metallurgy (PM) plays an increasingly vital role in the development of advanced metallic materials with tailored microstructures and superior properties. This Special Issue, entitled "Novel Insights into Powder Metallurgy of Metallic Materials," aims to compile cutting-edge research and reviews that highlight recent breakthroughs and innovative approaches in this dynamic field. We welcome contributions that explore novel powder synthesis techniques, advanced consolidation methods such as spark plasma sintering and hot isostatic pressing, microstructure control across multiple scales, and the understanding of structure-property relationships in PM alloys and composites. Topics of interest also include the development of high-performance materials for extreme environments, the integration of computational modeling and machine learning in process optimization, and the advancement of sustainable PM manufacturing practices. This issue seeks to provide a platform for sharing new scientific insights and technological advances that push the boundaries of powder metallurgy, fostering its application across aerospace, automotive, energy, and biomedical sectors.

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### Guest Editor

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### Deadline for manuscript submissions

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## Metals

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## 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.

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### Editor-in-Chief

Prof. Dr. Yong Zhang

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