



metals



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Powder Synthesis and Processing

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Message from the Guest Editor

In powder metallurgy, synthesis and processing are two of the most important steps. Recent progress in the development of tailored powders to control the microstructure and properties of the final products for specific applications have been performed. Progress in mature technologies and advances in new technologies for the processing are depending on fine understanding of the chemical, physical and mechanical mechanisms driving the powder route. Modeling, both analytical and numerical, of these mechanisms and of their coupling is an essential step for the development of new materials with complex shapes and/or tailored properties.



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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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