



metals



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Metal-Ceramic Composites Fabricated by Powder Metallurgy Method

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Message from the Guest Editors

Ceramic-reinforced metal matrix composites (metal-ceramic composites) have attracted much attention for a long time and have been applied in many fields, such as automobile, aerospace, electronic industry and so on. This is because various properties of metals, such as their mechanical and wear resistance and high-temperature performance, can be effectively improved through the composite of ceramic materials. The development of metal-ceramic composites, mainly benefits from the improvement of preparation methods and the application of new technologies.

In this Special Issue, entitled Metal-Ceramic Composites Fabricated by Powder Metallurgy Method, we welcome articles that focus on the following aspects: (I) the improvement and optimization of the preparation process, including the improvement of the traditional process and the application of new technology; (II) the adaptation relationship between different types of composite systems and the preparation processes; (III) the microstructure control, especially the nanoization of the reinforcement and the control of the interface, as well as the relationship between the microstructures and properties.



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Special Issue



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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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