



Experimental and Numerical Simulation of Metallic Materials

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Message from the Guest Editors

Dear Colleagues,

Metallic materials can be conventional materials, such as carbon steels, alloy steels, aluminium alloys, or new materials, such as titanium alloys, rare metals, precious metals, composite materials with a metal matrix, etc., and can be obtained either by conventional technologies or new technologies, such as 3D printing, selective laser sintering or additive manufacturing. The evaluation of the behaviour of metallic materials in different domains can be realized through theoretical research, numerical simulation and experimental research that validates the theoretical results. This Special Issue intends to invite authors to publish their most recent progress through original high-quality work in the field of experimental and numerical simulation of metallic materials. Special attention will be dedicated, but not limited, to innovative materials which are able to improve the mechanical behaviour of a structural component and innovative manufacturing processes of metallic materials.





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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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