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Processing Technology of Wear-Resistant Metallic Materials

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Message from the Guest Editors

The modification of the wear mechanisms is highly associated with surface modification processes, which are continuously immersed in processes of innovation and improvement in manufacturing processes. However, specific properties and characteristics can make the processing of wear-resistant metallic materials difficult, decreasing the process performance.

The main subjects covered by this Special Issue are based on the following research topics:

1.High-efficiency processing methods for wear-resistant metallic materials.
2.Surface modification techniques for the reduction in friction and wear effects.
3.Efficient processing of complex materials.
4.Innovations in processing technology of wear-resistant metallic materials (tools, characterization, etc.).
5.Improvement in the surface-lubricated retention for the reduction in wear and friction damage.
6.Innovations on tests and evaluation of wear-resistant surfaces and materials.
7.Improvement in sustainability of processing technology of wear-resistant surfaces.
8.Impact of the wear-resistant improvement on the process performance.
9.Applications and study case investigation of processing technologies of wear-resistant 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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