

Special Issue

Tribological and Machining Characteristics of Metallic Materials

Message from the Guest Editors

The study of friction, wear, and lubrication of surfaces in relative motion is a highly topical subject. This is because, when it comes to metallic materials, tribological characteristics are fundamental in determining their effectiveness in engineering and manufacturing applications. The interaction between the tribological properties of metallic materials and their machining processes has a significant impact on the lifespan of cutting tools, the quality of machined parts, and production efficiency. In this Special Issue, we aim to focus on research in tribology and machining, where the goal is not only to improve existing processes but also to innovate in the development of new materials and cutting technologies. This includes the design of advanced alloys and the development of tool coatings that offer better wear and temperature resistance. Thus, tribology and the machining of metallic materials represent an essential field of study to advance modern engineering and meet the demands of industries requiring greater precision and efficiency.

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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.

Editors-in-Chief

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