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Tribological Study of Metals

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Message from the Guest Editors

Wear is mass loss of a surface by abrasive, rolling, beating, scratching, chemical, and/or thermal stress.

This usually undesirable change in the surface is one of the main causes of component damage and the associated failure of machinery and equipment. The reduction of wear is therefore an essential way to increase the lifetime of machines and equipment and thus save costs and raw materials. In addition to the immense economic importance, the safety aspect also plays a decisive role in wear research. The failure of components due to wear sometimes has serious consequences, for example in automotive, aviation or rail traffic applications.

Tribology is an interdisciplinary subject area for the optimization of mechanical technologies as well as materials and surfaces by reducing friction and wear-related energy and material losses. Therefore, it is important to identify and characterize the different wear mechanisms to find methods of resolution for increasing the wear resistance of materials and components.

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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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