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Tribological Behaviors of Metallic Materials and Their Surface Research

Guest Editor:

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Message from the Guest Editor

Friction losses and metal failure caused by wear have a significant impact on the economy and environment. With the recent advances in material characterization techniques, an in-depth understanding of the underlying mechanisms of friction and wear has become accessible. In parallel, the newly gained knowledge has been translated in the development and engineering of new materials, surfaces, and lubricants.

This Special Issue on the "Tribological Behaviors of Metallic Materials and Their Surface Research" is intended to serve as a forum covering recent developments in the fields of friction and wear of metallic materials. Potential topics include the multi-scale analysis of friction and wear of metals (both experimental and theoretical) in various environments (UHV, ambient, or corrosive) and under various conditions (i.e., dry or lubricated), the engineering of surfaces by texturing or coating, and the development of new lubricants (solid, oil-based, ionic liquid-based, and green lubricants).

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Message from the Editor-in-Chief

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