

Tribological Behavior of Functional Surface: Models and Methods

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Message from the Guest Editors

Surfaces of solid bodies contain characteristic features, affecting the functional properties of machine elements. Surface topography restricting the contact area to a very small ratio of the nominal area is one of the fundamental features of significant importance for contact mechanics, friction wear, and lubrication. Surface engineering improves tribological performance. Surface texturing is a method used in surface engineering to improve the sliding properties of assemblies by creating dimples on surfaces. Tribological processes can lead to increased chemical reactivity. Understanding of surface processes at the nanoscale is very important.

The aim of this Special Issue is to collect high-quality research papers, short communications, and review articles that focus on the tribological behavior of functional surfaces. Contributions involving modeling and/or experimental approaches are particularly welcome.



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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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