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Tribological Behavior of Functional Surface: Models and Methods II

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Message from the Guest Editors

The 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. An 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 asked to deliver knowledge and technologies 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 in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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