Special Issue

Surface Engineering and Innovative Materials in Tribological Applications

Message from the Guest Editors

Monitoring friction and degradation is essential in engineering to ensure efficiency, reliability, and the longevity of industrial components. In sectors such as aerospace and automotive industries, critical contact conditions can lead to failures and breakdowns. In this context, surface engineering and advanced coatings play a key role in enhancing material performance. Various treatments can improve wear resistance and reduce friction, particularly under extreme mechanical, thermal, and environmental conditions. This Special Issue aims to provide a platform for high-quality contributions focusing on innovative solutions at the micro- and nanoscale. Topics of interest include, but are not limited to: design and optimization of materials, coatings, and surfaces; advanced surface treatment techniques; investigation of tribological behavior under severe conditions; and multi-scale modelling and simulation of tribosystems. Both original research articles and review papers are welcome. Experimental, numerical, and computational studies are encouraged, especially those with clear relevance to practical applications.

Guest Editors

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About the Journal

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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