Special Issue

Surface Topography and Friction Studies

Message from the Guest Editors

Surface topography is an important parameter in tribological research and more. The condition of the surface (e.g., roughness) depends on the technology of its execution and the operating conditions in which it works. In recent years, a number of technologies have been improved that allow the creation of coatings that increase resistance to abrasive and erosive wear. These can be CVD and PVD coatings, padding welds with microjet technology or laser surface modification technologies. During the sliding contact of surfaces, they wear and tear off particles. Therefore, an important aspect of friction testing is also the characterization of particles emitted into the atmosphere. It is an increasingly recognized aspect of tribological research that may affect the quality of our environment. This Special Issue focuses on the broadly understood aspects of surface topography in relation to (but not limited to) tribological and erosive research. In particular, the topic of interest includes but is not limited to

- Study of surface topography;
- Tribological coatings;
- Surface erosion;
- Analysis of airborne wear particles;
- Surfaces after welding processes.

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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