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Characterization and Mechanism of Friction and Wear Phenomena

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Deadline for manuscript submissions:
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Message from the Guest Editor

The study on the characterization and mechanisms of friction and wear phenomena is always a matter of central focus in tribology. Since tribo-materials and friction systems have a wide variety, their properties and mechanisms have necessarily become complicated. Along with advances in measurement and analysis technologies in recent years, the essence of friction and wear phenomena will become clearer through a number of studies. For building a sustainable society for the future, it is necessary to study and develop the optimal tribological systems with a social environment.

In this Special Issue, original papers focusing on evaluating tribological properties and elucidating tribological processes from multifaceted viewpoints such as friction and wear tests, in situ measurements, and modeling and simulation in tribology are welcomed. Furthermore, the papers on the latest topics will be welcome as they aim for a deeper understanding of friction and wear phenomena in various tribo-materials and tribological systems.

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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.

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