

Special Issue

Advances of Tribology and Surface Engineering

Message from the Guest Editor

Tribology is a highly interdisciplinary field. On the one hand, it addresses fundamental questions concerning driving forces and their consequences for observed friction and wear phenomena. On the other hand, it seeks to meet very practical demands, focusing on machine elements, biological friction pairs, lubricant development, and much more. Numerous scientists, developers, and practicing engineers are actively engaged in all these areas, and tremendous progress has been achieved.

A particularly broad area of research concerns the contact between solid surfaces. Here, new approaches to modeling surface topographies and contact formation are being explored, as well as investigations into the influence of topography on frictional energy and the consequences of novel manufacturing methods. Nevertheless, recent studies have also opened fundamentally new directions in theoretical tribology, which now need to be pursued consistently. This Special Issue aims to acknowledge and contribute to this highly dynamic and positive development in tribology, and we invite original and engaging contributions to further support and advance this process.

Guest Editor

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