Special Issue

High Performance Machining and Surface Tribology

Message from the Guest Editors

With the rapid changes in the market, the requirements for the performance of high-end equipment have become increasingly stringent. [...]. This Special Issue will mainly focus on analyses of multi-source signal processing, the wear mechanisms of high-performance machined surfaces, and the surface wear characteristics of difficult-to-machine materials; it will also focus on analyses of a variety of macro- and micro-mechanism problems in high-performance machined surfaces from a tribological point of view. These studies will not only provide solutions for controlling the full-cycle production quality of high-end products but also solve multi-factor traceability problems that affect high-performance processing. These findings will not only provide a rich scientific basis for high-end-product manufacturers and researchers but also analytical means for research on the friction and wear mechanisms of high-performance machined surfaces. At the same time, it is hoped that this Special Issue will be significant in guiding the research of high-performance machining and surface wear in the future.

Guest Editors

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Message from the Editor-in-Chief

Friction, wear, and lubrication are tribological phenomena that govern the behavior of interacting surfaces in a wide range of machine components. Understanding the physical and chemical nature of these phenomena is critical to achieving long component lifetime and economical operation. Research in the field of tribology is highly interdisciplinary, and encompasses the fields of physics, chemistry, engineering, and mathematical modeling. *Lubricants* invites contributions on new advances in all areas of tribology for publication as peer-reviewed research articles, reviews of current research, letters, and communications. We are committed to providing timely reviews of all articles submitted. Please consider sharing your work with the scientific community through publication in *Lubricants.*

Editor-in-Chief

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