Special Issue

Dynamics of Lubricated Interfaces

Message from the Guest Editors

This Special Issue on the dynamics of lubricated interfaced aims to investigate the influence of the microscopic characteristics of lubricated surfaces on interface lubrication characteristics. Under dynamic loading, materials and structures with lubricated interfaces exhibit some special properties. Among them, the fluctuation of lubricated interfaces and the dynamic fracture mechanics of lubricated interfaces are two main components of the dynamics of lubricated interfaces. Advanced intelligent manufacturing technologies, such as interface model studies, nondestructive testing, dynamic damage and failure mechanisms, drag reduction, dynamic fracture toughness and dynamic crack propagation of the interface, provide new technical support and development ideas for the dynamics of lubricated interfaces. This Special Issue will include the latest research progress in the field of lubricated interface dynamics, such as interface fluctuation, interface friction and wear, interface lubrication and interface molecular dynamics. I am pleased to invite researchers in relevant fields to contribute to this Special Issue.

Guest Editors

Dr. Yunqing Gu

School of Measurement and Testing Engineering, China Jiliang University, Hangzhou 310018, China

Dr. Zhenxing Wu

School of Measurement and Testing Engineering, China Jiliang University, Hangzhou 310018, China

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Lubricants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
lubricants@mdpi.com

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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

Prof. Dr. Homer Rahnejat
School of Engineering, University of Central Lancashire, Preston PR1 2HE, UK

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