

# Special Issue

## Modelling in Tribology and Biotribology

### Message from the Guest Editors

Numerical simulations in tribology, such as lubrication and wear models, are powerful tools to predict the performance of a product in its actual life-cycle conditions and improve the product design. They have gained increasing interest for a wide range of applications, from general industrial engineering to the human body, such as human joint replacements, dental implants and contact lenses. Advanced methods have also been developed, including in-house programming and commercial CFD/FEA simulations. Despite the great achievements in this field, challenges still remain regarding the fundamental theory, methodology and mechanisms, particularly when addressing more complicated and realistic conditions. The aim of this Special Issue is to compile cutting-edge research from world-leading scientists working in the fields of tribology and biotribology, covering a wide range of topics from theories to various applications, with respect to the areas that the keywords specify.

### Guest Editors

Dr. Leiming Gao

Prof. Dr. Feng Guo

Prof. Dr. Zhongmin Jin

### Deadline for manuscript submissions

closed (31 May 2023)



## Lubricants

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## About the Journal

### 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*.

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### Editor-in-Chief

Prof. Dr. Homer Rahnejat  
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