





an Open Access Journal by MDPI

# **Friction and Dynamic Behaviors of Thin Films**

Guest Editors:

#### **Dr. Ruiting Tong**

School of Mechanical Engineering, Northwestern Polytechnical University, Xi'an 710072, China

### Dr. Oi Wan

Faculty of Printing, Packaging Engineering and Digital Media Technology, Xi'an University of Technology, Xi'an 710048, China

Deadline for manuscript submissions:

closed (30 August 2023)

## **Message from the Guest Editors**

he reduction in friction between two contact surfaces with relative motion is an established topic in many mechanical. systems. Thin films are widely used in mechanical systems environments, especially in the in harsh environment, and many studies are performed on the friction behaviors of thin films. This Special Issue intends to address the latest progress in the field of thin films for metals. Original contributions related to thin film materials and their friction properties, mechanical characterization, applications are welcome. The environmental compatibility of thin films should be regarded as one of the most important advantages to meet the requirements of friction reduction in the friction process. The topics of interest for this Special Issue include (but are not restricted to):

- Friction of thin films at the nano-, micro- and macro-scale:
- Molecular dynamics simulation of the friction process;
- Crystal structure evolution of thin films;
- Thermodynamic properties of thin films;
- Mechanical properties under space environment;
- Any other friction-related dynamics.











an Open Access Journal by MDPI

### **Editor-in-Chief**

## **Prof. Dr. Alessandra Toncelli** Department of Physics, University of Pisa, 56126 Pisa, Italy

# **Message from the Editor-in-Chief**

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

### **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (*Crystallography*) / CiteScore - Q2 (*Condensed Matter Physics*)

#### **Contact Us**