





an Open Access Journal by MDPI

# **Tribo-System Design and Analysis**

Guest Editors:

### Prof. Dr. Zhinan Zhang

School of Mechanical Engineering, Shanghai Jiao Tong University, Shanghai 200240, China

## Dr. Shuaihang Pan

Department of Mechanical and Aerospace Engineering, University of California-Los Angeles, Los Angeles, CA 90095, USA

## Dr. Zhiguo Xing

National Key Lab for Remanufacturing, Army Academy of Armored Forces, Beijing 10072, China

Deadline for manuscript submissions:

closed (31 January 2023)

## Message from the Guest Editors

Dear Colleagues,

Current development to reduce the failure and risk induced by tribological processes and maximize the applications of tribo-designs requires a systematic measurement and investigation, a promoted performance of current and novel tribo-systems, and a comprehensive integration of tribological theories, simulation, experiments, and analytical approaches and methodology.

The scope of this Special Issue will serve as a forum for papers in the following concepts:

- 1. Novel tribometers for performance measurement of tribo-systems both ex situ and in situ.
- 2. The improvement of current tribo-systems and development of novel tribo-systems facing extreme conditions (e.g., ultra-small scale, high temperature, high radiation, etc.).
- 3. Tribo-informatics approach in tribology system design and analysis, e.g., machine learning approach in wear prediction, data-driven approach for mechanism identification.
- 4. Computer modelling and simulation (particularly new algorithm) to accurately reproduce and predict the behaviour and processes in tribo-systems.
- 5. Other new theory, methods and tools integrated for tribo-system design and development.



Specialsue



IMPACT FACTOR 2.9 CITESCORE 5.0

an Open Access Journal by MDPI

## **Editors-in-Chief**

#### Prof. Dr. Wei Pan

State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

## **Dr. Emerson Coy**

NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

## **Message from the Editorial Board**

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

## **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 (*Physics, Applied*) / CiteScore - Q2 (*Surfaces, Coatings and Films*)

## **Contact Us**