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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.

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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.

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Contact Us

Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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coatings@mdpi.com
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