

Surface Topography and Friction Studies

Guest Editors:

Dr. Wojciech Tarasiuk

Faculty of Mechanical
Engineering, Białystok University
of Technology, Białystok, Poland

Prof. Dr. Tomasz Węgrzyn

Department of Automotive
Vehicle Service, Silesian
University of Technology, 40-019
Katowice, Poland

**Prof. Dr. Bożena Szczucka-
Lasota**

Department of Logistics and
Transport Technology, Faculty of
Transport and Aviation
Engineering, Silesian University
of Technology, Krasińskiego 8,
40-019 Katowice, Poland

Deadline for manuscript
submissions:
closed (31 December 2023)

Message from the Guest Editors

Dear Colleagues,

Surface topography is an important parameter in tribological research and more. The condition of the surface (e.g., roughness) depends on the technology of its execution and the operating conditions in which it works. In recent years, a number of technologies have been improved that allow the creation of coatings that increase resistance to abrasive and erosive wear. These can be CVD and PVD coatings, padding welds with microjet technology or laser surface modification technologies. During the sliding contact of surfaces, they wear and tear off particles. Therefore, an important aspect of friction testing is also the characterization of particles emitted into the atmosphere. It is an increasingly recognized aspect of tribological research that may affect the quality of our environment. This Special Issue focuses on the broadly understood aspects of surface topography in relation to (but not limited to) tribological and erosive research.

In particular, the topic of interest includes but is not limited to

- Study of surface topography;
- Tribological coatings;
- Surface erosion;
- Analysis of airborne wear particles;
- Surfaces after welding processes.



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 called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest 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 (*Materials Science, Coatings & Films*) / CiteScore - Q2 (*Surfaces and Interfaces*)

Contact Us

Coatings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/coatings
coatings@mdpi.com
X@Coatings_MDPI