

Friction, Wear, Lubrication and Mechanics of Surfaces and Interfaces

Guest Editor:

Dr. Jurgita Zekonyte

School of Mechanical and Design
Engineering, University of
Portsmouth, Portsmouth, UK

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Message from the Guest Editor

Dear Colleagues,

We invite you to submit your work to this Special Issue, “Friction, Wear, Lubrication and Mechanics of Surfaces and Interfaces”. From friction and wear to corrosion and fatigue to biofouling, most engineering problems stem from the surface. Surfaces and interfaces are integral parts of any product. Their malfunction might result in product failure, and in some cases, fatal outcomes. Bulk material properties are well-known and researched, yet their surface and interface properties differ and often have an undesired impact on the overall performance. Using advanced surface engineering, design, and controlled modification, it is possible to adjust specific properties (tribological, mechanical, chemical, and many others) to tailor material performance for targeted applications while leaving the bulk untouched. Topics of interest include, but are not limited to:

- Functional, adaptive, smart multilayered coatings and surfaces;
- Computer simulations, modelling, and design strategy;
- Structure, texture, mechanics, tribology of surfaces and interfaces;
- Surfaces for special applications: space, vacuum, biomedical, extreme temperatures, etc.



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Special Issue

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

Tel: +41 61 683 77 34
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