

Special Issue

Tribo-System Design and Analysis

Message from the Guest Editors

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:

- Novel tribometers for performance measurement of tribo-systems both ex situ and in situ.
- 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.).
- Tribo-informatics approach in tribology system design and analysis, e.g., machine learning approach in wear prediction, data-driven approach for mechanism identification.
- Computer modelling and simulation (particularly new algorithm) to accurately reproduce and predict the behaviour and processes in tribo-systems.
- Other new theory, methods and tools integrated for tribo-system design and development.

Guest Editors

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Deadline for manuscript submissions

closed (31 January 2023)



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Impact Factor 2.8
CiteScore 5.4



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About the Journal

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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