



Tribology and Wear Properties of Self-Lubricating Materials

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Message from the Guest Editors

Self-lubricating materials are a new generation of materials that utilizes the benefits of incorporated solid-lubricating compounds. The aim of the special issue ‘Tribology and Wear Properties of the Self-Lubricating Materials’ focuses on both experimental and simulational studies on the design and development of self-lubricating materials, evaluation of tribological properties, prototyping of tribological machine elements, validation of tribological applications, etc. In particular, the topics of interest include but are not limited to:

- Design and development of self-lubricating materials;
- Development of experimental methods for understanding the friction, wear, and lubrication properties of self-lubricating materials;
- Assessment of the tribological performance of machine elements made from self-lubricating materials;
- Evaluation and validation of tribological applications in machine elements;
- Characterization of interfaces for self-lubricating materials;
- Micro-, nano mechanism analysis regarding friction and wear;
- Experimentation and simulation of self-lubricating material failures.





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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.

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