



Tribology and Mechanical Characteristics of Films

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Message from the Guest Editors

Dear Colleagues,

The demand for coating solutions with high wear resistance, superior mechanical properties, corrosion resistance and enhanced friction behavior is increasing, thanks to recent and growing advances in modern manufacturing technologies for thin-film deposition on increasingly diversified substrates. Coatings protect structural materials with poor surface properties and wear resistance, limiting the costs of using high-performance materials as the good surface properties can be obtained even with reduced thicknesses.

The topics of interest for this this Special Issue include (but are not restricted to):

Low-friction coatings;

Wear-resistant coatings;

Tribological coatings for extreme conditions, e.g., high/low temperature, harsh environments, etc.;

Tribological coatings for biomedical applications;

Hard protective coatings;

Tribocorrosion in various environments (sea water, acid/alkaline media, and simulated body fluids);

Any other aspects of tribological coatings.





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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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