



Novel Wear-Resistant and Lubricant Materials and Coatings

Guest Editor:

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Message from the Guest Editor

Wear-resistant and lubricant coatings play important roles in multiple aspects, including spacecraft, aircraft, satellites, rockets, atomic energy equipment, instruments and meters, vehicles, ships, and other fields. With the low friction factor and resistant performance at high temperature, strong radiation, strong corrosion, high vacuum, and under other extreme conditions, lubricating coatings give effective protection and extend the service life of materials.

This Special Issue aims to provide a platform on which researchers could share and access the current state-of-the-art experimental and computational research advances in the different types of wear-resistant and lubricant coatings or materials. Topics of interest in this Special Issue include but are not limited to the following aspects:

- New materials or technologies for the improvement of friction and wear behavior;
- Surface morphology;
- Wear-resistant or lubricant coatings applications;
- Water lubrication;
- Friction and wear performance.

We look forward to receiving your contributions.





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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.

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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