

Special Issue

Coatings for Tribological Applications

Message from the Guest Editors

Nowadays, coatings are extensively applied to mitigate the adverse effects of friction and wear in machine components. Examples can be found in a variety of technological and industrial fields, such as biomedical, electrical, energy, transport, etc. Depending on the applications, quite diverse contact conditions (e.g., speeds, loads, motion, environment) can be met.

Therefore, it is extremely important to treat every tribo-system in a unique way and try to evaluate its behaviour under relevant application conditions. This Special Issue focuses on the use of coatings for tribological applications. The topics of interest for this Special Issue, in particular, include (but are not restricted to):

- The successful use of coatings in demanding tribological applications, particularly related to sustainability issues (energy production, electrical vehicles, waste reduction);
- The use of coatings to reduce wear and improve friction;
- New tribological methods to study industrial problems on the lab scale;
- Friction and wear mechanisms in coated systems;
- Other aspects of tribological coatings are also welcome.

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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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