

Special Issue

Coatings and Surface Texturing of Metals, Alloys and Composites: Processing, Characterization and Properties

Message from the Guest Editors

We would like to invite you to submit your research to this Special Issue. Recently, combining surface texturing with coating technologies has garnered more interest, as textured surfaces can enhance coating adhesion and improve tribological performance, offering new opportunities to extend component lifetimes under severe conditions. However, increasingly complex service environments continue to pose challenges, including coating degradation and premature failure. Addressing these issues requires advances in coating materials, surface texturing techniques, processing methods, and a deeper understanding of structure–property relationships. In particular, topics of interest include, but are not limited to, the following:

- Advanced coatings and surface texturing for alloys, steels, metals, and composite materials;
- Coating processing and fabrication techniques;
- The modeling and simulations of coating behavior and performance;
- The microstructure development and characterization of coatings;
- The mechanical, tribological, and corrosion properties of coatings;
- The structure–property relationships and performance optimization of coatings.

Guest Editors

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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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