

## Special Issue

# Surface Engineering and Functional Coating for Alloy and Metal Materials: Challenges and Opportunities

### Message from the Guest Editors

In recent years, surface engineering has gained importance in the field of materials technology. Surface engineering enables the improvement of materials' performance at low cost, enabling functional properties that could not otherwise be achieved by the substrate material. Because surface engineering can enhance the performance of given materials at lower cost, it has enormous potential to provide technological solutions to various engineering problems. Scientists are conducting extensive research to determine the relationship between the process parameters of surface engineering processes and the resulting properties of the modified surface. However, there is an urgent need to bridge the gaps between laboratory-level research and the multitude of problems faced by industry. We invite researchers to contribute to this Special Issue. The topics of interest include but are not limited to the following:

- Mechanical properties of surface protection coatings.
- Surface modification technologies.
- Surface Modification by Ion Implantation
- Determination of the coefficient of friction of modified surfaces.
- The wear resistance of coatings.
- Modeling of wear of modified surface.

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### Guest Editors

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### Deadline for manuscript submissions

25 September 2026



## Coatings

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CiteScore 5.4



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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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