

# Special Issue

## Advanced Surface Technology and Application

### Message from the Guest Editors

Surface technology involves the fields of materials science, chemistry, physics, tribology, microelectronics, information science, nanotechnology, biomedicine and other disciplines, and is one of the important frontiers of modern high-tech fields and advanced manufacturing. Recently, the research into surface technology has achieved good results, and it is developing towards automation and intelligence. This topic aims to integrate and present the latest advances to inspire and inform relevant researchers in the field of surface technology, and to promote the application of surface technology. The topics of interest for this Special Issue include:

- Novel surface material systems
- External field-assisted surface technology
- High-wear-resistant, high-corrosion-resistant, high-temperature-oxidation-resistant and self-lubricating coatings
- Repair and strengthening of machine parts
- Novel surface technology methods
- Simulation analysis of surface technology
- Monitoring and control of surface technology processes
- Surface functionalization
- Corrosion and protection of surface coatings
- Frictional wear and lubrication of the surface coatings

### Guest Editors

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Dr. Zhenlin Zhang

Dr. Dingding Xiang

Dr. Jiang Ju

### Deadline for manuscript submissions

31 October 2025



## Coatings

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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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### Editors-in-Chief

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