

Advanced Surface Technology and Application

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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



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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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