

## Special Issue

# Gradient Nanocrystalline Surfaces Produced by Mechanical Surface Engineering, Machining and Wear

### Message from the Guest Editors

The scope of this Special Issue aims to address the recent research of nano-structured surfaces generated either in mechanical surface strengthening, such as shot peening, rolling, or other types; in machining; or in a wear process. These processes are known to result in various severities of plastic deformation, work hardening, and residual stresses. Recent research is more focused on the nano-/atomic-scale characterization of such near-surface structures in order to either further enhance the mechanical properties, or to address the fundamentals of microstructure evolution. We welcome research papers, case studies, and topic reviews on various types of mechanically induced nano-scale surface structures, regarding the structural characterization, mechanical properties, and tribological performance, as well as the related failure investigation. There is special interest in the characterization of such surfaces by means of electron microscopy, nano-/micro-indentation, and X-ray diffraction analyses. We also welcome contributions on advances in analytical and testing techniques.

### Guest Editors

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### Deadline for manuscript submissions

closed (23 July 2023)



## 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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