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Modern Methods of Shaping the Structure and Properties of Coatings

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Deadline for manuscript submissions:
20 October 2024

Message from the Guest Editors

Dear Colleagues,

We are pleased to invite you to contribute to the Special Issue “Modern Methods of Shaping the Structure and Properties of Coatings".Constant striving to increase the energy efficiency of machines, devices and processes and reduce energy consumption and emissions leads to the development of new materials with enhanced mechanical properties. Surface treatment is one way to enhance the mechanical properties and wear characteristics of metals and their alloys.

This Special Issue aims to cover broad aspects of science, technology, applications of surface treatment methods, as well as characterisation of surface layers.

Original research articles and reviews are welcome. Potential topics may include (but are not limited to):

- Study on technologies of surface treatment.
- Designing and shaping the properties of surface layers.
- Study of tribological characteristics of surface layers.
- Characterisation of surface layers (microstructure and properties).
- Study of wear mechanisms of surface layers (abrasion, erosion, cavitation, etc.).

We look forward to receiving your contributions.

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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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