Special Issue

Tribological, Nano-Structured, Boron-Based, Superconducting, Asphalt, and Bio-Inspired Coatings for Multifunctional Surface Engineering

Message from the Guest Editors

Protective coatings and surface engineering play a fundamental role in enhancing the functional performance, durability, and sustainability of advanced engineering systems. Recent developments in materials physics, nanoscience, surface biology, and transportation engineering have enabled the design of multifunctional coating systems with tailored mechanical, chemical, electrical, and biological properties. In this context, nano-engineered, boron-based, and superconducting coatings have emerged as key technologies for addressing challenges related to wear, corrosion, adhesion, aging, and long-term service performance. Topics including, but not limited to:

- Nano coatings and nano-structured surface engineering;
- Boron-based coatings and multifunctional boron-containing systems;
- Superconducting thin-film coatings;
- Compound, alloy, and composite coating technologies;
- Wear, corrosion, and tribological behavior of advanced coatings;
- Asphalt coatings and surface engineering for transportations;
- Biological and bio-inspired coating systems;
- Multidisciplinary research, innovative coating products, and sustainability-oriented solutions.

We look forward to receiving your contributions!

Guest Editors

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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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