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# **Advanced Microstructure and Mechanical Behaviour of Composite Coatings**

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Deadline for manuscript submissions:

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## Message from the Guest Editors

This Special Issue will be dedicated to exploring the advancements made in understanding the microstructure of composite coatings, ranging from novel nanostructures to innovative macrostructures. Moreover, the issue aims to delve into the interplay between the microstructural features and their impact on the mechanical behavior of these coatings. As the guest editors of this Special Issue, we are thrilled to curate a collection of high-quality research articles, reviews, and communications that will highlight the latest trends and developments in this fascinating area of research.

Research areas may include (but are not limited to) the following:

- Multifunctional composite coatings for advanced applications:
- Coatings for demanding environments;
- Microstructural analysis and characterization;
- Mechanical properties, including hardness. toughness, wear resistance, and fatigue behavior;
- High temperature oxidation;
- Corrosion;
- Coating processing methods such as thermal spraying, electrophoretic deposition, PVD, and plasma electrolytic oxidation.

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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