



Advances of Ceramic and Alloy Coatings

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Message from the Guest Editors

Dear Colleagues,

With the development of modern technology, advanced ceramics and alloy coatings have gradually become an important part of new materials and become important materials in the development of many high-tech fields. It has received great attention from various industrially developed countries. Advanced ceramics and alloys, which have a specific fine structure and a series of excellent properties (e.g., high strength, high hardness, wear resistance, corrosion resistance, high-temperature resistance, etc.), are widely used in various fields, such as national defense, chemical industry, metallurgy, electronics, machinery, aviation, aerospace, biomedicine and so on.

Thus, by including all types of substrates and coating technologies, this Special Issue aims to provide better assessments of the potential applications of different ceramics and alloy coating technologies on different substrates.





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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.

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