



Advances in Ceramic Protective Films and Coatings

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Message from the Guest Editor

Dear Colleagues,

I would like to welcome you to submit your manuscript to this Special Issue, which is called “Advances in Ceramic Protective Films and Coatings”. The goal of this issue is to emphasize some of the most recent and interesting contributions to the ceramic protective coatings field using a combination of original research papers from around the world.

Ceramic protective films and coatings are helpful for various applications (medical and industrial applications, nuclear applications, etc.) which can be used in research fields such as electronics, tribology, catalytic chemistry, as well as in energy engineering. These applications include friction reduction, wear resistance, corrosion protection, thermal protection, hydrogen permeation barriers, electrical functionality, and optical functionality.

Ceramic films and coatings can be applied by different techniques including evaporation, plasma spraying, sputtering, chemical vapour deposition, sol-gel processing, and ion-beam implantation. The possible ranges of composition, quality of microstructures, and resulting properties of the material may vary depending on the method of preparation.





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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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