



Thin Film Coatings for Multifunctional Applications

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Message from the Guest Editor

This Special Issue is focused on contributions that improve our scientific and mechanistic understanding of the characterization and performance of engineered surfaces and coatings, processing–structure–property–performance relationships, the design of coatings for specific applications, and size effects. Additional emphasis is given to multifunctional and nanocomposite coatings for extreme conditions, nanostructured coatings, lightening and photovoltaic applications, and advances in instrumentation and measurement techniques. This Special Issue will also be devoted to contributions on understanding the role of coating composition and structure in friction and wear reduction.

In particular, the topics of interest include but are not limited to the following:

- New technology trends and applications;
- Surfaces, interfaces, and thin films;
- Processes for coating deposition;
- Characterization techniques;
- Experimental condensed matter physics;
- Substrate influence and sample 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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