



Advances in Nanoscale Coatings for Composites

Guest Editor:

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Message from the Guest Editor

The aim of the Special Issue “Advances in Nanoscale Coatings for Composites” is to cover the recent reports based on nanoscale coatings for composites in the form of thin films, nanoparticles, and nanocapsules. Nanoscale coatings provide the benefits of flexibility, durability, less weight, better adhesion, among many others. Especially in composites, the coating plays a crucial role in improving the performance of the final product by improving the dispersion and/or increasing the interfacial interactions between the host matrix and the filler materials. These kinds of coatings can be obtained using different methods, like dip coating, sol–gel, spray coating, CVD, PVD, and self-assembly. However, there are still many issues that need to be resolved, like cost-efficiency, premature failure, etc. Towards this, we encourage researchers to share their work on the advancements in the field of nanoscale coatings for composite materials.

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

- Surface treatments;
- Interfacial interactions;
- Multifunctional coatings;
- Conductive coatings;
- Characterization of thin films.





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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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