



Advances in Polymer-Based Thin Films

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Message from the Guest Editors

Polymer-based coatings and thin films provide excellent mechanical, thermal, and chemical properties, which make them ideal for many advanced applications.

This Special Issue aims to present recent advances in the field of polymer-based coatings and thin films, with a focus on synthesis, processing, characterization, and performance evaluation and covering topics from fundamental understanding to practical applications. Original research papers, reviews, and perspectives are welcome, including but not limited to the following:

- Novel synthesis and processing methods for polymer-based coatings and thin films.
- Surface modification of polymers for improved adhesion, wetting, and corrosion resistance.
- Multifunctional coatings and thin films for sensing, actuation, and energy storage.
- Bioinspired coatings and thin films for biomedical applications.
- Advanced characterization techniques for polymer-based coatings and thin films.
- Computational modeling and simulation of polymer-based coatings and thin films.
- Scale-up and manufacturing of polymer-based coatings and thin films.
- Challenges and opportunities in commercializing polymer-based coatings and 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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