

Advances in Multifunctional Polymer Coatings and Films: Exploring Innovations Across Industries

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Deadline for manuscript
submissions:

31 March 2025

Message from the Guest Editors

Dear Colleagues,

We are pleased to invite you to participate in our Special Issue. We are interested in presenting the latest achievements and advancements in the field of polymer coating technologies, which possess various functions and properties. We would like to focus on innovative approaches to the design, synthesis, and application of multifunctional polymer coatings and films. The aim is to showcase the latest trends in the field, including advancements in antibacterial, conductivity, corrosion resistance, self-healing, hydrophobicity, and many other properties. Topics may include, but are not limited to, the following:

- New methods of synthesis and the characterization of multifunctional polymer coatings;
- The application of modern nanotechnological techniques in the production of polymer coatings and films;
- The impact of additives on the properties of polymer coatings and films;
- The application of smart materials in the production of polymer coatings;
- Examples of innovative applications of polymer coatings in various fields, such as medicine, industry, or environmental protection.



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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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