

## Synthesis, Characterization, and Applications of Innovative Polymer Coatings and Films

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### Message from the Guest Editors

Dear colleagues,

Polymer coatings are thin layers of polymer that act as a physical barrier and provide superior adherence and protection to the applied substrate, while polymer films represent affordable thin sheets of polymeric material with good surface roughness. The structure–property relationship of polymer coatings and films is significantly influenced by the molecular structure and composition of the used reactants, the addition of micro- or nanofillers, the applied synthetic procedure, molecular weight, the morphology and crystallinity of the final product, and much more. Depending on their end use, they must fulfill certain requirements, such as adequate mechanical, thermal, and optical properties, good chemical resistance, durability, adjustable surface morphology, cost-efficiency, excellent substrate suitability, etc. Polymer coatings and films have found application as paints, inks, protective and decorative coatings, in pharmaceuticals, etc.

The goal of this Special Issue is to provide a forum for discussion and to publish the latest advances and innovations in the field of the synthesis of polymer coatings and films with superior and targeted properties.





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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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