



Advanced Polymeric Materials and Coatings: Synthesis, Properties and Applications

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Modern life without organic polymers is probably unimaginable. Polymers are vital ingredients of different products we use daily. Polymers are also among the most important ingredients of the organic coatings used for the protection and longevity of various metallic structures across the globe. Organic coatings, applied heavily to protect metallic structures of immense commercial importance (e.g., automobiles, ships, chemical manufacturing plants, wind turbines, oil rigs, etc.), use a variety of polymers as binders, co-binders, rheology modifiers, etc., in a sophisticated balance with the other ingredients (e.g., extenders/fillers, pigments, etc.) in the coatings to perform their desired function in real-life contexts. Therefore, it is important to control the molecular structure and properties of polymers intended for use in coatings.

Therefore, this Special Issue is dedicated to the publication of research articles disseminating the synthesis, properties and applications of advanced polymeric materials and coatings.





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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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