

Recent Innovations in Polyurethane Coatings and Films

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Message from the Guest Editors

Dear Colleagues,

Polyurethanes (PUs) are a very broad group of polymers that are widely distributed and investigated in the world. According to the results announced by Statista, the global market volume of PUs amounted to 25.7 million metric tons in the year 2022, and there are predictions that this figure will grow significantly in the coming years. PUs' structure–property relationships are significantly influenced by the applied reagents, molecular structure, composition, obtained molecular weight, presence of microphase separation, crystallinity, new methods of synthesis, addition of micro- or nano-fillers, and more. PUs have good mechanical and thermal properties, good chemical resistance, adjustable surface morphology, and wide substrate suitability, amongst others. Therefore, they have widespread uses, such as coatings, adhesives, elastomers, paints, inks, and so on. The goal of this Special Issue is to provide a forum for discussion and publish the recent advances and innovations in the field of synthesis and achieving improved properties of PUs.



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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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