

## Special Issue

# New Advances in Polyurethane Coatings and Its Application

### Message from the Guest Editor

The polymers termed as binding media or resins are at the heart of coating formulations, since they not only hold the different ingredients of coating formulation together but also help to attain the desired physical, chemical, and mechanical properties. In general, polymeric systems used in coating formulations mainly determine the environmental footprint of the coating and, therefore, the development and selection of appropriate polymeric systems is very important. Various polymeric systems such as alkyd, polyester, epoxy, acrylics, polyurethane, polyamides/imides, amines, etc., have been used in the coatings arena. Amongst them, polyurethane (PU) is emerging as a polymeric system of choice for the development of eco-friendly sustainable functional coatings due to its versatile nature. In particular, the topics of interest include but are not limited to the following:

- Coatings, adhesives, sealants, and elastomers
- Tackifier chemistry and function
- Polymers and coatings based on renewable bio-based raw materials
- UV-cure, solventborne, and waterborne coatings
- Polyurethane and vitrimer chemistry
- Advanced next-generation self-healing polymers

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### Guest Editor

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### Deadline for manuscript submissions

closed (1 September 2022)



## 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.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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