Special Issue

Progressive Polymeric Coating Systems: Intelligent, High-Performance and Multifunctional Innovations

Message from the Guest Editors

Recent advancements in materials science, nanotechnology, and chemistry have enabled the development of intelligent, high-performance, and multifunctional polymeric coatings; these coatings have the potential to revolutionize the way we approach surface protection, enabling smarter, more resilient, and eco-friendly solutions. The objective is to provide a comprehensive platform for researchers, engineers, and professionals to present their findings and insights on the development of cutting-edge polymeric coating systems that have the potential to revolutionize surface protection across various industries. The key topics include, but are not limited to, the following:

- High-performance coatings with enhanced protection properties.
- Multifunctional polymeric coatings: self-sensing, self-healing, anti-icing, self-cleaning properties, etc.
- Intelligent polymeric coating systems: sensor integration, damage responsiveness, and adaptability to environmental variations.
- Novel fabrication methods for advanced polymeric coating systems.
- Green and sustainable polymeric coating materials and processes.
- Computational modeling and simulation of polymeric coating systems.

Guest Editors

Dr. Xingyu Wang

Dr. Ime Bassey Obot

Prof. Dr. Ying Huang

Deadline for manuscript submissions

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Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

mdpi.com/journal/polymers

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker
Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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