

Special Issue

Development of Polymer Materials as Functional Coatings

Message from the Guest Editor

Polymer materials stand out as the predominant choice for crafting functional coatings with exceptional properties. They play a pivotal role in enhancing the performance, longevity, and aesthetics of diverse materials and surfaces, including mechanical rigidity, durability, resistance (to chemicals, heat, UV light, etc.), and functionality (optical, electrical, magnetic, electrochemical, thermal, waterproofing, adhesive, etc.). They have found wide applications, encompassing abrasion- and scratch-resistance coatings, optical coatings, barrier coatings, corrosion-resistance coatings, antibacterial coatings, electrically conductive coatings, self-cleaning coatings (superhydrophilic and superhydrophobic), heat-resistance coatings, flame-retardant coatings, and more. In this Special Issue, we welcome contributions that investigate the design and synthesis of innovative polymers and/or nanocomposites as coating materials, along with the exploration of new fabrication strategies to achieve optimal coatings. We also welcome the application of functional coatings in optical, electrical, electrochemical, mechanical devices, and many more.

Dr. BeiBei Jiang

Guest Editor

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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

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