## Special Issue

## Antimicrobial Polymers for Coating Applications and Biofilm Eradication

## Message from the Guest Editors

This Special Issue on "Antimicrobial Polymers for Coating Applications and Biofilm Eradication" focuses on recent advancements in the synthesis, characterization, and application of polymers with antimicrobial action and the ability to eliminate preformed biofilms on different surfaces to increase the shelf-life of foods. The topics of interest include the study of coatings with the addition of bioactive substances (for example, antimicrobial, antioxidants, and probiotic bacteria), different methods of applying said coatings, the application of nanoparticle-containing coatings in intelligent packaging, and the optimization of polymer production via microbial synthesis, alongside related applications in various fields, including biomedicine, food industry, and environmental remediation, highlighting their characterization and mechanical properties. This Special Issue will feature some representative examples that illustrate the complexities of polymers used in the food industry and medical field, stimulating new research and discoveries around synthetic and natural polymers with antimicrobial properties.

### **Guest Editors**

Dr. Magali Soares Dos Santos Pozza

Dr. Andresa Carla Feihrmann

Dr. Oscar De Oliveira Santos-Junior

### Deadline for manuscript submissions

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## **Polymers**

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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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