

Special Issue

Recent Advances in Novel Antimicrobial Polymers

Message from the Guest Editors

Antimicrobial resistance is a dangerous threat to mankind. For several years, the WHO has warned against ESKAPEE pathogens and their effect on existing antimicrobials. Plants contain a plethora of antimicrobial agents, which are known and utilized in every culture. Antimicrobial effects are due to the synergetic effects of numerous biomolecules within different species, which include antimicrobial phytochemicals. Enhancing antimicrobial effects is also achieved by green synthesis of metallic nanoparticles reduced through phytochemicals. Antimicrobial polymers represent a vast and rich resource from synthetic materials and natural origins. The use of natural antimicrobial polymers is often related to the concept of a sustainable economy through the utilization of waste products. The combination of polymers with plants and/or nanoparticles offers alternative pathways. Polymers have the ability to stabilize and allow the slow release of antimicrobials from a compound, counteracting the development of resistance towards active agents. This Special Issue highlights different types of novel antimicrobial polymers and their ability to mitigate antimicrobial resistance for a better future.

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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 4.9.

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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