



Antimicrobial Properties of Polymers and Polypeptides

Guest Editors:

Dr. Annalisa Chianese

Department of Experimental
Medicine, University of Campania
"Luigi Vanvitelli", 80138 Naples,
Italy

Dr. Nunzianna Doti

Institute of Biostructures and
Bioimaging (IBB)-CNR, Via
Mezzocannone 16, 80134 Naples,
Italy

Dr. Alessandra Monti

Institute of Biostructures and
Bioimaging (IBB), National
Research Council (CNR), 80134
Naples, Italy

Deadline for manuscript
submissions:

closed (31 July 2024)

Message from the Guest Editors

The recent pandemic outbreaks have highlighted the possible spread of infectious diseases caused by emerging and re-emerging pathogens, representing a very serious public health problem. Furthermore, the rise of antimicrobial resistance and the scarcity of drugs able to eradicate microbial infections have determined the urgent need to propose and develop alternative therapeutic strategies. In this regard, the use of ad hoc developed polymers, antimicrobial peptides and small molecules could represent a valuable opportunity to address this need.

This Special Issue aims to collect original contributions and reviews that delve into the most recent results on the development of polymeric materials, peptides and peptidomimetics with antimicrobial activity and the elucidation of their mechanisms of action at the molecular level in microbes, such as bacteria, viruses, yeasts, fungi and parasites. Additionally, this issue welcomes papers describing the impact of antimicrobial agents in the fields of food packaging, biomedical, healthcare and environmental materials, taking into account their potentials and pitfalls.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien
und Polymertechnologie,
University of Potsdam, 14476
Potsdam-Golm, Germany

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 5.0.

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)

Contact Us

Polymers Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/polymers
polymers@mdpi.com
X@Polymers_MDPI