

Special Issue

The Advances in Antimicrobial Biomaterials

Message from the Guest Editors

Starting with penicillin, mankind has advanced medicine to the next level by pioneering the field of antibiotics. However, the overuse of antibiotics in recent decades has resulted in the emergence of drug-resistant microbial strains. It has become one of the most pressing public health problems in the world. It is necessary to develop biomaterials with antimicrobial properties to inhibit microbial growth without using antibiotics and to ensure product quality and safety. This Special Issue includes different aspects of synthesis, modification, and physicochemical characterization of antimicrobial agents for the fabrication of antimicrobial biomaterials. The potential topics include (but are not limited to) the following research areas:

- Natural-based biomaterials with antimicrobial properties.
- Organic or carbon nanoparticles with antimicrobial.
- Active biopolymer development and mass production process (statistical optimization).
- Antimicrobial films (bioelastomers) for food packaging applications.
- Screening technologies for antimicrobial candidates.
- Selective pathogen-sensing technology.

Guest Editors

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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