

Indexed in: PubMed



an Open Access Journal by MDPI

Nanotechnology in Microbiology

Guest Editor:

Dr. Denver Linklater

School of Science, RMIT University, Melbourne, Australia

Deadline for manuscript submissions:

closed (30 April 2021)

Message from the Guest Editor

Nanomaterials such as nanoparticles, nanorods. nanowires, and 2D materials can act as drug carriers, enhancing the antibiotic payload or exert other lethal bacteria damage to via nanomaterial-membrane interactions. Similarly, nanostructured surfaces have been shown to lethally tear apart contacting bacterial cell membranes. Nanostructured topographies may be applied to the surfaces of implants and medical devices, even to high-touch surfaces in public spaces to evade the incidence and transmission of bacterial infection. With further research and development, nanotechnology and nanomaterials may become the gold standard for prevention and treatment of bacterial infections in the era of antibiotic resistance

This Special Issue aims to cover research related, but not limited, to:

- Micro-nanostructured antifouling and antibacterial surfaces;
- Antimicrobial nanomaterials;
- Nanomaterial-based diagnostics and therapeutics for bacterial infections;
- Mechanisms of antibacterial action of nanomaterials.













an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Ai-Qun Liu

1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China 2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

Author Benefits

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

 $\textbf{High Visibility:} \ \text{indexed within Scopus, SCIE (Web of Science), PubMed,} \\$

PMC, Ei Compendex, dblp, and other databases.

Journal Rank: JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Mechanical Engineering)

Contact Us