nanomaterials

IMPACT FACTOR 4.4

Indexed in: PubMed

CITESCORE 8.5

an Open Access Journal by MDPI

Antimicrobial Nano Coatings

Guest Editors:

Prof. Angela Ivask
Institute of Molecular and Cell Biology, University of Tartu, Riia 23, 51010 Tartu, Estonia

Dr. Merja Ahonen
Faculty of Technology and WANDER Nordic Water and Materials Institute, Satakunta University of Applied Sciences, 26101 Rauma, Finland

Dr. Karin Kogermann
Institute of Pharmacy, Faculty of Medicine, University of Tartu, Nooruse 1, 50411 Tartu, Estonia

Deadline for manuscript submissions:
closed (30 November 2022)

Message from the Guest Editors

Surfaces are one of the most significant sources involved in the spread of microbial infections. The highest level of microbial transmission via surfaces occurs in healthcare, food preparation, and sanitary facilities but also in public space via frequently touched surfaces. Beside planktonic forms, microbial biofilms easily attach onto and colonize various surfaces. Considering the speed of transmission of microbes via surfaces, the fast elimination of contagious microbes from surfaces is key to combating microbial infections. Antimicrobial surfaces have already been used to reduce microbial pathogens on various surfaces. Silver- and copper-based microbicidal surfaces have the longest history and the widest use, but the popularity of nanomaterials and nanostructures in antimicrobial surfaces is on the rise.

This Special Issue aims to highlight current advances in the field of nanomaterial-based or nanostructured antimicrobial coatings and surfaces. We look forward to receiving your manuscripts reporting the preparation, characterization, and evaluation of antimicrobial activity, as well as mechanisms of action. Both research papers and review papers are more than welcome.

nanomaterials

IMPACT FACTOR 4.4 | Indexed in: PubMed | CITESCORE 8.5

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Shirley Chiang
Department of Physics, University of California Davis, One Shields Avenue, Davis, CA 95616-5270, USA

Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call "nanomaterials". These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.
Journal Rank: JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (General Chemical Engineering)

Contact Us

Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/nanomaterials
nanomaterials@mdpi.com
𝕏@nano_mdpi