Special Issue

Advances in Antibacterial Coatings: From Materials to Applications

Message from the Guest Editors

Healthcare-acquired infections and emerging multi-drug resistance (MDR) have become an urgent global challenge demands for innovative alternative tools, technologies, and strategies to combat bacterial infections. Considering the recent advancements in materials science and nanotechnology, the formulation of novel antibacterial surface coating technology as a component of advanced functional biomaterials remains a top research goal. Advanced functional antibacterial coatings consisting of natural entities, functional polymers, biomolecules, antibiotics, and nanomaterials were used to eliminate bacterial infections and biofilm formation in biomaterials. I invite authors to contribute original research articles and review articles including, but are not limited to:

- Antibacterial formulations and coatings;
- Bio-inspired universal antibacterial coatings;
- Contact-killing surfaces;
- Release-killing surfaces;
- Hydrophillic antifouling coatings;
- Superhydrophobic antibacterial coatings;
- Smart interfaces;
- Photothermal agent-integrated coatings;
- Photosensitizer-integrated coatings.

Guest Editors

Prof. Dr. Liqun Xu

School of Materials and Energy, Southwest University Chongqing, Chongqing 400715, China

Dr. Lei Liu

Institute for Advanced Materials, Jiangsu University, Xuefu Road 301, Zhenjiang 212013, China

Deadline for manuscript submissions

closed (31 December 2023)

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/si/115765

Coatings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
coatings@mdpi.com

mdpi.com/journal/coatings

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/journal/coatings

About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.
Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

Editors-in-Chief

Prof. Dr. Wei Pan
State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

Dr. Emerson Coy
NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

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, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Surfaces, Coatings and Films)