

Special Issue

Recent Advances in Antibacterial Composite Coatings

Message from the Guest Editors

Antibacterial coatings for medical or pharmaceutical use are developing rapidly, and represent a major component of the overall strategy to mitigate bacterial pathogens. We consider those materials that can release antibacterial substances in a controlled manner but are environmentally friendly, and retain this property in the medium or long term. We are pleased to invite you to contribute to the discoveries by publishing in this Special Issue of Coatings articles. This Special Issue aims to publish original research papers aligned with the antibacterial materials, including the science and engineering of coatings, thin or thick films, surfaces or interfaces. Research areas include the following:

- Material science of coatings;
- Antibacterial-release-based coatings;
- Active approaches: stimuli-responsive materials;
- Mechanisms of bacteria-triggered approaches;
- Antibacterial Multifunctional coatings;
- Antibacterial Multi-release coatings;
- Antibacterial Multi-approach coatings;
- Long-term stability of antibacterial properties of coatings;
- Other aspects regarding antibacterial coatings.

Guest Editors

Dr. Gabriela Olimpia Isopencu

Faculty of Chemical Engineering and Biotechnology, University Politehnica of Bucharest, Bucharest, Romania

Dr. Alexandra Mocanu

Department of Chemical and Biochemical Engineering, University Politehnica of Bucharest, Bucharest, Romania

Deadline for manuscript submissions

closed (20 August 2025)



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/112728

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

[mdpi.com/journal/
coatings](https://mdpi.com/journal/coatings)





Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



[mdpi.com/journal/
coatings](https://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)