

## Special Issue

# New Strategies and Recent Advances in Investigations of Micro- and Nano-Coatings for Technological and Biomedical Applications

### Message from the Guest Editors

In recent decades, micro- and nano-technology have made substantial contributions to the significant progress in different fields, such as industries, and the pharmaceutical and biomedical domains. Their advancement has led to the development of improved and new materials, tools, and devices, with various applicabilities. Studies have generally become more interdisciplinary and complex. Our hope is that the reviews and original papers published in this Issue will have a widespread impact, adding value to the present research information. Papers submitted to this Issue are expected to be in line with the recent achievements in the fabrication coatings processes, and show correlations between structure, interface, and properties to improve on performance. The topics of interest include, but are not limited to, the following:

- Passive micro-/nano-coatings on valve metals;
- Hybrid complex coating with bioactive components;
- Surface and interface engineering to improve the materials' performance;
- The relationship between structure, properties, and materials' applications.

### Guest Editors

Prof. Dr. Ioana Demetrescu

Department of General Chemistry, Politehnica University of Bucharest,  
011061 Bucharest, Romania

Dr. Anca Mazare

Department of Materials Science WW4-LKO, Friedrich-Alexander  
University, 91058 Erlangen, Germany

### Deadline for manuscript submissions

closed (15 September 2024)



## Coatings

an Open Access Journal  
by MDPI

Impact Factor 2.8  
CiteScore 5.4



[mdpi.com/si/143372](https://mdpi.com/si/143372)

*Coatings*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[coatings@mdpi.com](mailto: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), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

#### Journal Rank:

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