



## Advanced Biomaterials, Coatings and Techniques: Applications in Medicine and Dentistry

Guest Editors:

**Prof. Dr. Lavinia Cosmina Ardelean**

Department of Technology of Materials and Devices in Dental Medicine, “Victor Babes” University of Medicine and Pharmacy, Timisoara, Romania

**Prof. Dr. Laura-Cristina Rusu**

Department of Oral Pathology, Multidisciplinary Center for Research, Evaluation, Diagnosis and Therapies in Oral Medicine, “Victor Babes” University of Medicine and Pharmacy Timisoara, 300041 Timisoara, Romania

Deadline for manuscript submissions:

**closed (20 March 2025)**

### Message from the Guest Editors

Dear Colleagues,

It is our pleasure to invite you to submit a manuscript to the Special Issue “Advanced Biomaterials, Coatings and Techniques: Applications in Medicine and Dentistry”. The use of biomaterials for medical and oral applications is associated with specific issues concerning their biocompatibility, bio-integration, antimicrobial properties, corrosion resistance and long-term performance. Coatings play an important role in achieving the most crucial properties of biomaterials through surface modification, making them suitable for medical and oral applications. The aim of this Special Issue is to provide an updated outlook on the applications of biomaterials and coatings in medicine and dentistry, as well as presenting innovative manufacturing technologies. It represents a good opportunity for researchers and scholars worldwide to disseminate different aspects of their work and reporting the results related to this topic. Research articles, reviews, and communications are equally invited for this Special Issue.

For further reading, please click the link:

[https://www.mdpi.com/journal/coatings/special\\_issues/Biomater](https://www.mdpi.com/journal/coatings/special_issues/Biomater)





## 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

## 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.

## 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)

## Contact Us

---

Coatings Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

mdpi.com/journal/coatings  
coatings@mdpi.com  
X@Coatings\_MDPI