

# Special Issue

## Advanced Alloy Degradation and Implants

### Message from the Guest Editor

Metals and their alloys are one of the oldest biomedical materials in human beings. In recent years, the R&D and design of metal implants and devices, the further exploration of their powerful functions and the in-depth exploration of their interaction with the body microenvironment have made great progress. In particular, the design of biodegradable alloys, the elaboration of their degradation mechanism in different environments, the research on degradation behavior and degradation products have attracted the attention of scholars

Topics addressed in this Special Issue may include, but are not limited to:

Design, fabrication, and characterization of new alloy implants and devices;  
Coatings of metallic implants or biomaterials;  
Biomedical alloy degradation;  
Computational modeling and numerical simulation of alloy implants and their surface;  
Composite materials composed of metals and other materials;  
The interactions between alloy implants and cells.

---

### Guest Editor

Prof. Dr. Jing'an Li  
School of Materials Science and Engineering, Zhengzhou University,  
Zhengzhou 450001, China

---

### Deadline for manuscript submissions

closed (29 April 2024)



## Coatings

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.4



[mdpi.com/si/109757](https://mdpi.com/si/109757)

*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), Ei Compendex, CAPlus / SciFinder, and other databases.

#### Journal Rank:

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