

## Special Issue

# Microstructure Evolution, Mechanical Properties, and Applications of Nonferrous Metal Alloys

### Message from the Guest Editors

Nonferrous metal alloys with a matrix of aluminum, copper, magnesium, titanium, and other metals have been widely used in many industries. In most cases, the failure of these nonferrous metal alloys is attributed to their corrosion. Some nonferrous metal alloys with high corrosion resistance are currently being developed, and the corresponding corrosion behavior and mechanism become of importance regarding application. For this Special Issue, we welcome submissions on studies being carried out in this field which are focused on the design of novel nonferrous metal alloys with good corrosion resistance, the corrosion behavior and mechanism of nonferrous metal alloys in different environments, methods for the protection of nonferrous metal alloys, and surface coating technologies for nonferrous metal alloys. Articles describing other directions within the field of the production of nonferrous metal alloys with good corrosion resistance are also welcome.

### Guest Editors

Prof. Dr. Zhu Xiao

School of Materials Science and Engineering, Central South University,  
Changsha 410083, China

Dr. Emily Chen

Monash Centre for Electron Microscopy, Monash University,  
Melbourne, VIC, Australia

### Deadline for manuscript submissions

closed (30 September 2023)



## Coatings

an Open Access Journal  
by MDPI

Impact Factor 2.8  
CiteScore 5.4



[mdpi.com/si/152845](https://mdpi.com/si/152845)

*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)