

## Special Issue

# Optical and Electrical Properties and Applications of Semiconductors

### Message from the Guest Editors

Amorphous semiconductor materials are emerging materials for optoelectronic applications. They have attracted considerable research interest because of the reduction in the physical thickness and the low embodied energy achievable in amorphous semiconductor devices. Popular amorphous semiconductor materials include amorphous Si, organic polymers and hybrid organic-inorganic perovskites. In order to achieve high-performance thin-film semiconductor devices, the optical and electrical properties and applications of semiconductor thin films have attracted considerable research interest. We would like to invite you to submit your original research to this Special Issue of Coatings, entitled “Optical and Electrical Properties and Applications of Semiconductors”. In particular, the topics of interest include, but are not limited to, the following: Organic conjugated thin film;  
Inorganic thin film;  
Perovskite thin film;  
Thin-film light-emitting diodes;  
Thin-film solar cells;  
Thin-film optical sensors;  
Nanostructured thin film in semiconductor devices;  
Plasmonic effect in thin film.

### Guest Editors

Dr. Zhongkai Cheng  
INFICON, East Syracuse, NY 13206, USA

Dr. Sheng Bi  
School of Mechanical Engineering, Dalian University of Technology,  
Dalian 116024, China

### Deadline for manuscript submissions

closed (31 December 2023)



## Coatings

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.4



[mdpi.com/si/12211](https://mdpi.com/si/12211)

*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)