

# Special Issue

## Thin Films for Thermoelectric Applications

### Message from the Guest Editors

This Special Issue, “Thin Films for Thermoelectric Applications”, aims to cover original research and critical review articles on recent aspects of novel thermoelectric materials processed as thin films. In particular, papers are invited that discuss recent advances in thermoelectric materials and their processing as thin films, characterization techniques relating structure–properties, construction of devices based on thin thermoelectric films, theory relating to thermoelectricity of thin films, and in general, all aspects of applications of thermoelectric thin films. The topics of interest include but are not limited to:

- Synthesis of novel thermoelectric materials
- Deposition techniques for thin films of thermoelectric materials
- Characterization methods of thermoelectric properties of thin films
- Structural characterization of thermoelectric thin films
- Quantum confinement, phonon drag, 2D materials
- Physics and chemistry of novel thermoelectric materials for thin films
- Theory and modelling of thermoelectric thin films
- Thermoelectric thin films sensors and applications
- Thermoelectric nanodevices

### Guest Editors

Prof. Dr. Clara M. Gómez

Institute of Materials Science (ICMUV), University of Valencia, 46980 Paterna, Spain

Prof. Dr. Rafael Muñoz-Espí

Institute of Materials Science (ICMUV), Universitat de València, C/ Catedràtic José Beltrán 2, 46980 Paterna, València, Spain

### Deadline for manuscript submissions

closed (31 October 2021)



## Coatings

an Open Access Journal  
by MDPI

Impact Factor 2.8  
CiteScore 5.4



[mdpi.com/si/25098](https://mdpi.com/si/25098)

*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)