

Special Issue

Recent Advances in Nanoscale Multilayer Thin Films/Foils

Message from the Guest Editor

This Special Issue will cover the recent progresses and new developments regarding all aspects of nanoscale multilayer thin films/foils, including production, modelling, characterization, testing, and application. From the application perspective, contributions focusing the use of reactive nanomultilayers/nanofolds for joining purposes are welcome. The topics of interest include, but are not limited to:

- Nanomaterials and interfaces
- Energetic materials
- Magnetron sputtering
- Phase transformations
- Intermetallic compounds
- Reactive multilayers
- Self-propagating reactions
- Modelling and numerical simulations
- Stresses in multilayer thin films or foils
- Size effects
- Mechanical behaviour
- Fracture and crack growth
- Biomedical applications
- Joining applications

Guest Editor

Dr. Ana Sofia Ramos

CEMPRE, Department of Mechanical Engineering, University of Coimbra, R. Luís Reis Santos, 3030-788 Coimbra, Portugal

Deadline for manuscript submissions

closed (31 December 2024)



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/152771

Coatings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)