

Special Issue

Innovative Materials, Thin Films and Coatings for Advanced Energy and Hydrogen Applications

Message from the Guest Editors

This Special Issue aims to collate high-quality original research articles, reviews, and short communications focused on the design, fabrication, characterization, and modelling of advanced materials, thin films, and coatings for energy and hydrogen applications. Topics of interest include materials and coatings for solar and thermal systems, concentrated solar power technologies, thin films for hydrogen production, separation, and permeation, as well as materials for optoelectronic and energy-conversion devices. Contributions addressing novel processing approaches, nanostructured and multilayer architectures, optical, morphological, and structural characterization, durability, and structure–property–performance relationships are particularly encouraged.

Guest Editors

Dr. Claudia Diletto

Dr. Maria Grazia Maglione

Dr. Salvatore Aprano

Dr. Maria Rosa Fiorillo

Deadline for manuscript submissions

30 November 2026



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/266705

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)