

Special Issue

Advanced Functional Nanostructured Films and Coatings for Energy Applications, 2nd Edition

Message from the Guest Editor

At present, the topic of energy represents a real emergency for humankind, and therefore must be considered a priority in scientific research. The natural resources of energy are not inexhaustible, and the use of those more immediately accessible is not free of drawbacks such as environmental pollution. Energy is required in any industrial/domestic technology, and, consequently, finding a solution for these energy needs is a matter of universal relevance. Material science plays a key role in this process of renewing the type of energy resources we can exploit. Advanced materials surely have a strategic role in this energy transition process. Physical phenomena always occur at interfaces between different solid phases. Interfaces have a key role because their extension only amplifies the physical phenomenon. Finally, surfaces, interfaces, coatings, and thin films will have a significant role in this energy transition. For these reasons, we propose a Special Issue highlighting the overlap among energy-related issues, surface science/technology, and nanostructuration

Guest Editor

Dr. Gianfranco Carotenuto

Institute for Polymers, Composites and Biomaterials (IPCB-CNR),
National Research Council, Piazzale E. Fermi 1, 80055 Portici, Italy

Deadline for manuscript submissions

30 November 2025



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/201619

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)