

Special Issue

Coatings Deposited by Cathodic Arc and Magnetron Sputtering Process

Message from the Guest Editor

Modern PVD techniques can obtain coatings with the required structure and properties. In these methods, the material from which the coatings are formed is most often thermally evaporated or sputtered by ion bombardment. Cathodic arc (CA) and magnetron sputtering (MS) are the most commonly used PVD coating deposition techniques. This Special Issue will serve as a forum for papers on arc evaporation and magnetron sputtering technique, in the following concepts:

- Explanation and modeling of plasma physics in CA and MS methods;
- New solutions and constructions of devices with magnetron and arc sources;
- Comparison of techniques using pulse arcs with the HiPIMS method;
- Methods and techniques for testing the chemical and phase composition, structure and properties of coatings produced by CA or MS;
- New, innovative applications of coatings deposited by CA or MS techniques in various fields.

We look forward to receiving your contribution.

Guest Editor

Dr. Mieczysław Pancielejko

Faculty of Mechanical and Energy Engineering, Koszalin University of Technology, Koszalin, Poland

Deadline for manuscript submissions

closed (20 March 2023)



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/46260

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)