

Special Issue

PVD/CVD Deposition Processes, Coatings Characterization and Coatings Failure Analysis

Message from the Guest Editor

PVD and CVD are sustainable and environmentally friendly processes which are able to improve the lifespan of surfaces or give them a more suitable look regarding application. Despite more than five decades of exploring PVD and CVD deposition techniques, these techniques evolve constantly, trying to fulfill the market requirements. Regarding the huge number of researchers involved in research and development directly related to PVD and CVD techniques, as well as to the improvement of coatings characteristics, this Special Issue will try to collect important contributions related, though not limited, to the topics announced. High-quality, novel researches are very welcome, as well as reviews on the aforementioned topics. Recent new coatings formulations and systems, laboratory works, traditional and novel applications, coatings failure analysis, reports in extended coatings lifespan, wear mechanisms affecting coated surfaces, and failure mechanisms affecting coatings in the most diverse applications are very welcome in this Special Issue.

Guest Editor

Dr. Francisco J. G. Silva

Department of Mechanical Engineering, ISEP–School of Engineering, Polytechnic of Porto, 4200-072 Porto, Portugal

Deadline for manuscript submissions

closed (30 November 2021)



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/52527

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), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Surfaces, Coatings and Films)