

Special Issue

Anodizing Processes for the Production of Advanced Functional Coatings

Message from the Guest Editors

In recent decades, surface engineering has played an important role in technological applications for automotive, aerospace, biomedical, electronic, and chemical industries with the aim to modify and improve the surface properties of materials for protection in hard contact conditions or in contact with aggressive environments, or for specific functional performance. Among the techniques currently used for coatings fabrication, one of the most effective is anodizing, i.e., an electrochemical oxidation process that allows the formation on the surface of metals and metal alloys of oxide layers of tuneable composition, properties, microstructure, and morphology. The properties of these oxide layers are affected by process parameters such as applied voltage, applied current, bath composition, bath temperature, etc.

Guest Editors

Prof. Dr. Monica Santamaria

Dr. Francesco Di Franco

Dr. Andrea Zaffora

Deadline for manuscript submissions

closed (30 November 2022)



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/37272

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)