Plasma Electrolytic Oxidation (PEO) Coatings

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Message from the Guest Editors

Plasma electrolytic oxidation (PEO), also known as micro-arc oxidation (MAO), functionalizes surfaces, improving the mechanical, thermal, and corrosion performance of metallic substrates, along with other tailored properties. The aim of this Special Issue is to present the state-of-the-art of PEO for Al, Mg, Ti, Zr alloys and steels, through a combination of short communications, original research papers and review papers from leading research groups around the world.

In particular, the topics of interest include, but are not limited to:

- Fundamental understanding of PEO process: mechanistic study and modeling of coating growth;
- Properties and performance of PEO coatings: corrosion, mechanical, catalytic and/or electric evaluation;
- Hybrid PEO coatings;
- Functionalization of PEO coatings;
- Active protection based on PEO;
- Bio-applications of PEO coatings;
- Advanced PEO processes.

Note: The Article Processing Charges (APC) for accepted papers are CHF 1200 (Swiss Francs). Specially, we will offer a discount of 20% in APC for all the participants of EUROCORR 2018.
Message from the Editor-in-Chief

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. Coatings is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers on the hottest topics.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High visibility: indexed by the Science Citation Index Expanded (Web of Science) and Inspec (IET). To be added in Scopus from Vol. 8 (2018).

Rapid publication: manuscripts are peer-reviewed and a first decision provided to authors approximately 17.2 days after submission; acceptance to publication is undertaken in 4.5 days (median values for papers published in this journal in the second half of 2018).

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