



Innovative Surface Treatments and Coatings Involving Electrochemical Deposition

Guest Editor:

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Deadline for manuscript submissions:

closed (15 October 2020)

Message from the Guest Editor

We would like to invite you to submit your work to this Special Issue on “Innovative Surface Treatments and Coatings Involving Electrochemical Deposition”.

The aim of this Special Issue is to publish original research articles and critical reviews on all aspects related to recent advances in the electrodeposition and characterization of innovative metal and alloy coatings from leading groups from academia and industry.

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

- Electrodeposition of alloys with enhanced corrosion and tribocorrosion resistance;
- Electrodeposition of micro- and nanoporous metallic structures with applications in sensing, (electro)catalysis, filtration, supercapacitors or batteries;
- Electrodeposition of micro- and nanostructured thermoelectric materials;
- Electrodeposition of high-performance nanostructured metal and alloy coatings using ionic liquids;
- Electrodeposition of composite coatings.





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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.

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