

Sustainable Coatings by Electrodeposition: Synthesis, Characterization, and Applications

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

How to reduce negative human impact by integrating sustainability with technological progress is becoming one of the major challenges in modern society. This is also addressed in one of the UN Sustainable Development Goals, which deals with “Responsible Consumption and Production” (Goal 12). [...]

Here, the importance in the development of sustainable coatings through the use of electrodeposition comes in and requires synergistic efforts by the scientific community. The use of environmentally-friendly chemical baths, as well as the design and characterization of novel more sustainable coatings is an important research topic that we like to shed light on in this special issue. Of course, this includes property evaluation, as well as discussion of first applications and remaining challenges of sustainable coatings produced by electrodeposition.

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

- Environmentally-friendly chemical baths for electrodeposition
- Production and characterization of sustainable alloy systems
- Property determination and application tests



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Special Issue

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Message from the Editorial Board

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.

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