# **Special Issue**

# Sustainable Coatings by Electrodeposition: Synthesis, Characterization, and Applications

# Message from the Guest Editor

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 charaterization of sustainable alloy systems
- Property determination and application tests

#### **Guest Editor**

Prof. Dr. Uta Klement

Department of Industrial and Materials, Chalmers University of Technology, 412 96 Gothenburg, Sweden

## Deadline for manuscript submissions

closed (20 June 2021)



# **Coatings**

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.4



mdpi.com/si/19519

Coatings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
coatings@mdpi.com

mdpi.com/journal/coatings





# **Coatings**

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4





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

#### Journal Rank:

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