Special Issue

Electrochemical Surface Science: From Fundamentals to Applications

Message from the Guest Editors

We would like to invite you to make outstanding contributions to the Special Issue "Electrochemical Surface Science: From Fundamentals to Applications". Compared to traditional technologies, the electrochemical process is stress-free with a minimal thermal effect, which has many advantages. The electrochemical reaction involves anodic dissolution which is at the atomic scale. Therefore, it is especially pertinent to nanoscale, thin film, and surface science/engineering. The aim of this Special Issue is to create a state-of-the-art summary of recent developments in fundamental understanding and innovative applications in surface science of electrochemical technologies. In particular, the topics of interest include but are not limited to:

- Electropolishing (EP)/electrochemical pattern formation
- Electrochemical machining (ECM)/electrochemical micromachining (ECMM)
- Electroforming/electroplating
- Anodizing/electrocoloring
- Electrochemical polishing
- Electrochemical passivation
- Electrochemical science/models/theory

Guest Editors

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Deadline for manuscript submissions

closed (30 November 2021)



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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.

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