Special Issue

Interfacial Electrochemistry of Coatings Produced or Applied in Solution

Message from the Guest Editors

Coatings electrochemically fabricated in solution are advantageous as they can excellently adhere to any conductive substrate without restrictions in terms of area. They can easily be mass-produced with various chemical compositions, well-controlled structures, fine-shaped surfaces, and pre-designated thicknesses. The process can be precisely controlled through the applied current/potential in the planned solution. On the other hand, many coatings, including (but not limited to) electrochemically produced ones, are used in solutions for different reasons, including as structures, catalysts, electrodes, and so on. Coatings endure deformation, wear, dissolution, corrosion, erosion, wetting, or other types of degradation when used in these applications. This Special Issue, entitled "Interfacial Electrochemistry of Coatings Produced or Applied in Solution", focuses on the design, production, evaluation, characterization, application, and degradation of coatings. The coatings under study can be subjected to wear or corrosion, be wetted by rain or snow, be applied as catalysts for water splitting or fuel battery, or be used in other environments.

Guest Editors

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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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