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Anodizing Processes for the Production of Advanced Functional Coatings

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Message from the Guest Editors

Dear Colleagues,

In recent decades, surface engineering has played an important role in technological applications for automotive, aerospace, biomedical, electronic, and chemical industries with the aim to modify and improve the surface properties of materials for protection in hard contact conditions or in contact with aggressive environments, or for specific functional performance.

Among the techniques currently used for coatings fabrication, one of the most effective is anodizing, i.e., an electrochemical oxidation process that allows the formation on the surface of metals and metal alloys of oxide layers of tuneable composition, properties, microstructure, and morphology. The properties of these oxide layers are affected by process parameters such as applied voltage, applied current, bath composition, bath temperature, etc.

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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.

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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