Special Issue

Electrochemical Properties of Metallic Coatings

Message from the Guest Editor

Metallic coating is an outstanding corrosion-protection method with extensive applications and has attracted tremendous attention. Coatings with good chemical stability can effectively protect the substrate materials from surface corrosion and remarkably prolong the service life. The electrochemical properties of metallic coatings not only directly reflect the corrosion protection on the substrate materials, but also provide sufficient information about the thermodynamic and kinetic processes of corrosion, thus providing an insight into the corrosion mechanism and further guidance for the coating design. From this point of view, the electrochemical properties of metallic coatings are a worthy and important topic for corrosion and protection in the past, present, and future. The aim of this Special Issue is to exchange the progress and frontier of corrosion-protection knowledge for metallic coatings based on various electrochemical techniques, including (but not limited to) CV, Tafel, EIS, and LSV. I sincerely invite high-quality contributions that present innovative and significant findings and experiences on this topic.

Guest Editor

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Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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