Special Issue

Corrosion Processes of Metals: Mechanisms and Protection Methods

Message from the Guest Editors

Corrosion of metals is one of the most important problems in different industries, such as automotive, naval, chemical, biomedical, aerospace, construction, and electronics. The correct protection method is vital to increasing materials' performance in different environments. The environment plays an essential role in selecting protection methods, with protection methods varying from passivation, anodizing, corrosion inhibitors, cathodic protection, current methods, advanced coatings, and HVOF or plasma. The correct selection of coating equates to significant savings for different industries, so it is essential to determine if protection should be organic, inorganic, metallic, ceramic, or hybrid. Moreover, understanding the corrosion mechanism that acts in different protection methods is helpful. This Special Issue outlines different trends in corrosion science, electrochemicals, engineering, simulation, and technology, presenting a multidisciplinary perspective to abord the problem better.

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