Special Issue

Advances in Corrosion Resistance of Metal Materials

Message from the Guest Editors

The corrosion resistance of materials is an extremely important performance parameters when applied in the harsh service environment, especially in coastal environments. Metal materials are prone to losing electrons due to their high activity, leading to corrosion. In order to prevent metal corrosion, some necessary key protective measures need to be taken. A rust inhibitor is usually added to achieve the purpose of corrosion prevention in metal composite materials. Moreover, electroplating and cathodic protection are also applied for corrosion prevention of metals. Additionally, some evaluation methods of corrosion degree are also commonly used. Evaluation methods, such as electrical parameter method, mass loss method, and microscopic analysis method, are effective to quantitatively analyze the corrosion degree.

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