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Corrosion and Protection of Metals

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Message from the Guest Editor

One of the biggest issues in corrosion engineering is to estimate the service lifetime. This becomes very difficult, as there is no direct correlation with service lifetime and experimental lab results, usually as result of accelerated testing and real corrosion processes. This issue is of particular concern for society, since existing structures and infrastructure are getting old, and now crucial decisions must be made to replace them.

On the other hand, environmental protocols seek to reduce greenhouse effects. Therefore, low emission policies, in force, establish regulations for the next generation of materials and technologies. Advanced technologies and emergent materials will enable us to get through the next century. Great advances are currently in progress to develop corrosion resistances metal materials for different sectors such as energy, transport, construction, and health. This Special Issue on Corrosion and Protection of Metals is focused on current trends in corrosion science, engineering, and technology, thus covering subjects related to corrosion mechanism & modelling, protection and inhibition processes, and mitigation strategies.

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Message from the Editorial Board

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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