

Special Issue

Advances in Organic Corrosion Inhibitors and Protective Coatings

Message from the Guest Editor

The corrosion phenomena, to which every metallic substrate is subjected to, eventually result in the degradation of the metal and the deterioration of its properties. Corrosion control of metallic structures is an important task in technical, economic, environmental, and safety terms. Several types of corrosion inhibitors are being employed to prevent metallic dissolution in corrosive media, for which the use of organic inhibitors is one of the most frequent and economic methods. Heteroatoms (O, S, N, and P) and π -electrons in the conjugated form act as excellent corrosion inhibitors for metals and alloys in aggressive solutions. These inhibitors can be incorporated into corrosion-protective coatings. Coatings considered for corrosion inhibition must offer an effective physical barrier, impeding the access of violent materials to the metal surface. This Special Issue aims to attract all researchers working in this research field and will collect new findings and recent advances in the development, synthesis, and structure–activity relationships of organic corrosion inhibitors and protective coatings.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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