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Anticorrosion Coatings: From Materials to Applications

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Message from the Guest Editor

Dear Colleagues,

All over the world researchers and industrial specialists have undertaken titanic efforts in order to decrease undesired degradation resulting from corrosion. For the best approaches to resolving these issues through the application of resistant materials and the reduction of aggressive environments, it is imperative that we first learn as much as possible about the basic chemical, electrochemical, and microbiological degrading processes. It is also necessary to diminish the harmful environmental impacts caused by special anticorrosion chemicals. This is why the inhibition of different types of corrosion by multifunctional inhibitors/coatings is important, as they can control not only metal dissolution but can also decrease microbial adhesion and could function as biostatics or biocides. This Special Issue seeks to gather together papers on advanced, multifunctional smart coating materials and on their application in order to engage with new trends that help advance understanding of degrading mechanisms as well as the inhibition potentials for different types of corrosion.

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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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