



Functional Coatings for Corrosion Protection and Biofouling Mitigation

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Corrosion and biofouling pose significant global challenges in industrial and maritime sectors. Among various anti-corrosion and antifouling techniques, protective surface coatings are regarded as one of the most effective and feasible approaches, having become a research focus.

This Special Issue aims to delve into the cutting-edge advancements in functional coatings for corrosion protection and biofouling mitigation. Topics of interest include state-of-the-art fabrication methods, sustainable and non-toxic technologies, recent discoveries in anti-corrosion and antifouling mechanisms, durable coatings with mechanical stability, bioinspired designs based on special wettability or protective structures, and intelligent coatings featuring self-healing or stimulus-responsive attributes. We also welcome submissions on new characterization methods and computational simulations to analyze corrosion and biofouling processes.

It is my pleasure to invite you to contribute original research papers (experiments or simulations) and comprehensive reviews to this Special Issue.

Dr. Xiangyu Li
Guest Editor





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Message from the Editor-in-Chief

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