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Antibacterial and Corrosion-Resistant Coatings for Marine Application

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Message from the Guest Editors

Dear Colleagues,

This Special Issue focuses on coating technology that enhance the antibacterial and corrosion-resistant performance of marine engineering equipment, covering various types of coatings such as organic matrix coatings, metal-based coatings, hydrogel coatings, nanostructured surface coatings, etc. One approach is to incorporate bactericidal substances into the coatings to impart antibacterial properties. Another research area involves creating low-surface-energy surfaces by nanostructuring the surface or adding fluorinated and silicified surfactants to polymers to inhibit bacterial adhesion. Additionally, low-surface-energy coatings containing biocides have gained widespread attention for improving the antibacterial and antifouling performance of traditional corrosion-resistant coatings, which is crucial for practical applications.

Original research articles, reviews, and communications are welcome. We hope this Special Issue will promote research and technological advancements in the field of antibacterial and corrosion-resistant coatings, addressing practical protection issues for marine engineering equipment.



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Message from the Editor-in-Chief

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