

Polymer-Based Marine Antifouling and Fouling Discharge Surfaces: Methodologies for Synthesis and Modification

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Introduction

The marine environment is a complex and dynamic system, characterized by a wide range of biological and chemical processes. The presence of marine organisms, such as algae, bacteria, and fungi, can lead to the formation of biofilms on submerged surfaces, which can cause significant fouling and degradation of materials. This fouling can also lead to the discharge of pollutants into the environment, which can have detrimental effects on marine ecosystems. The development of polymer-based antifouling and fouling discharge surfaces is a key area of research in marine science, as these materials can provide a sustainable and effective solution to the problem of marine fouling. This article reviews the methodologies for the synthesis and modification of polymer-based antifouling and fouling discharge surfaces, and discusses the challenges and opportunities in this field.

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