

عنوان مقاله:

STUDY OF BARNACLES BIOLOGY AND INVESTIGATION OF NOVEL MARINE ANTIFOULING COATING

محل انتشار:

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خلاصه مقاله:

Engineered structures such as ships and marine platforms, as well as offshore rigs and jetties, are under constant attack from the marine environment. Biofouling can negatively affect the hydrodynamics of a hull by increasing the required propulsive power and the fuel consumption. This leads to increased costs within the shipping industry through the increased use of manpower, fuel, material and dry docking time. The use of antifouling coatings for protection from the marine environment has a long history. Since TBT was banned as an antifouling paint, therefore, development of pollution-free marine antifouling material is urgently required. For this purpose, it is necessary to know the biology of marine sessile organisms, particularly barnacles. This paper reviews barnacles biology and the development of antifouling coatings for the prevention of marine biological fouling, and finally, the novel compounds were investigated that can be useful for antifouling coating

کلمات کلیدی:

Antifouling, Coating, Barnacles, Biology

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