



Green Environmental Protection Technology and Sustainable Marine Development

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Message from the Guest Editor

Green technologies are essential for sustainable development and the prevention of global warming.

As for cargo shipping at sea, the combustion of fossil fuels in marine diesel engines is essential for the propulsion of ships, and the emission of CO₂ contributes to global warming. The only way to stop CO₂ emissions from ships is to change the fuel.

During the transition period, gas engines that use methane will be used. Further development of smoothing technology of the hull surface will contribute to the reduction in fuel consumption. In order to continue marine transportation beyond 2030, we need to develop novel marine fuels and marine diesel engines. The prevention of biofouling on a ship's hull is also an important technology to reduce fuel consumption. In this Special Issue, the current status of such technology will be summarized.

The focus of this SI is on novel marine fuels not containing carbon molecules, the development of marine diesel engines for such novel and alternative fuels, and marine paint technologies, etc. Sea-borne transport systems such as marine diesel engine development, alternative marine fuels, and hull smoothing technologies, etc.





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