

Special Issue

Developments in Zero-Carbon Fuels for Smart, Safe, and Reliable Waterborne Applications

Message from the Guest Editors

This Special Issue will delve into the critical challenges of sustainability and safety in maritime transport as the industry shifts towards zero-carbon fuels, such as hydrogen, ammonia, and alcohol-based options. While these fuels hold substantial promise in reducing emissions and combating climate change, they also present unique safety and operational challenges that must be carefully managed in order to ensure a smooth and secure transition. This Special Issue will showcase leading research addressing technical, operational, and regulatory complexities related to zero-emission fuels. Possible topics include innovations in the fuel supply chain, alternative propulsion technologies, combustion processes, safe, and reliable operation practices, as well as energy, exergy, and technical analyses. By examining these aspects, this Special Issue will equip the maritime sector with essential knowledge, ensuring that zero-carbon fuels are implemented in ways that are not only environmentally sustainable but also safe, practical, and reliable.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Journal of Marine Science and Engineering (JMSE, ISSN: 2077-1312) focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

Editor-in-Chief

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