

Special Issue

Power Systems of Polar Ship and Adaptability to Polar Environments

Message from the Guest Editor

With the progressively prominent strategic position of the Arctic and the growing exploitation of its resources, polar ships have become an issue of rising significance. Due to the complex sea conditions of polar shipping and impending stricter emission regulations, polar ships must exhibit high adaptability to polar environments. The design of ship power systems for polar ships must ensure safety, energy efficiency, and low emissions. Depending on the operating conditions of polar vessels, special considerations are required, such as dynamic performance under fluctuation loads, reliable fuel supply in harsh environments, significant reduction in CO₂ emissions, and specialized designs for cold and ice prevention. This Special Issue welcomes submissions of research whose scope includes, but is not limited to, the following topics:

- Power system design and computing;
- Dynamic response analysis;
- Engine performance and emissions;
- Power system implementation;
- Risk- and reliability-based approaches;
- Fuel supply issues for polar ships;
- Cold and ice prevention.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (JMSE, ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

Editor-in-Chief

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