

Special Issue

New Insights into Offshore Wind Energy

Message from the Guest Editors

Offshore wind energy has emerged as a cornerstone of the global transition toward renewable energy, offering vast potential for sustainable power generation. With rapid technological advancements, declining costs, and increasing policy support, this sector is poised for unprecedented growth. However, challenges remain in optimizing efficiency, ensuring environmental sustainability, and integrating offshore wind into modern energy systems. This Special Issue will explore cutting-edge research and innovative solutions across key areas, including the following:

- Technology and Innovation (floating offshore wind turbines, hybrid systems, digitalization);
- Environmental and Ecological Impacts (marine biodiversity, mitigation strategies);
- Grid Integration and Storage (offshore transmission, hydrogen production);
- Policy, Economics and Social Acceptance (cost reduction, regulatory frameworks, community engagement);
- Operation and Maintenance (predictive analytics, robotics, lifecycle management).

We invite high-quality contributions that advance theoretical, experimental, and practical knowledge on offshore wind energy, fostering a cleaner and more resilient energy future.

Guest Editors

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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

Prof. Dr. Charitha Pattiaratchi
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