

Special Issue

Optimized Design of Offshore Wind Turbines

Message from the Guest Editors

Offshore wind turbine (OWT) technology stands at the forefront of the offshore renewable energy sector, presenting immense commercial potential. Currently, fixed-bottom OWTs maintain their dominance, while floating OWTs (FOWTs) are rapidly emerging, poised to expand the technological and geographical scope of offshore wind energy. For the turbines, advances in aerodynamic design, adaptive control systems, and high-performance lightweight materials are essential for maximizing energy capture and operational reliability. Meanwhile, the supporting structures demand innovative foundation designs capable of withstanding harsh and dynamic marine environments, complemented by robust strategies for corrosion mitigation and fatigue resistance to ensure long-term structural integrity.

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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.

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