# Special Issue

# Exploitation and Optimization of Ocean Energy Conversion Infrastructure

## Message from the Guest Editors

The exploitation and optimization of ocean energy conversion infrastructure focuses on harnessing the energy potential of the world's oceans. This scientific and technological research area aims to develop efficient systems for converting kinetic, thermal, and marine current energy, as well as offshore wind energy, into useful forms of energy such as electricity. Various technologies are being explored, including tidal turbines, wave energy conversion systems, floating platforms for offshore wind turbines, and ocean thermal gradient technologies. The primary goal is to maximize the capture of renewable energy from the ocean in a sustainable and cost-effective manner, thereby contributing to the diversification of the energy matrix and the reduction in greenhouse gas emissions. However, the development of this infrastructure faces technical, economic, and environmental challenges, such as corrosion resistance, impact on marine life, and integration with the terrestrial power grid. As the demand for renewable energy increases, ongoing research in this area is crucial for harnessing the vast energy potential of the oceans and advancing towards a more sustainable future.

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## Deadline for manuscript submissions

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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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