# **Special Issue**

## Advances in Ocean Wave Energy Conversion

## Message from the Guest Editor

Despite its potential, wave energy extraction technology is not yet mature. The US Department of Energy (DoE) reported in 2012 that the world's installed capacity for wave energy is less than 5 MW, mostly produced on a pre-commercial basis. Yet, there has been a significant arowing interest in wave energy in the past few years. Recently, we have seen advances in wave energy converter (WEC) modelling, WEC array modelling, and new control concepts have emerged. There have also been advances in the development of power take off (PTO) units. The aim of this Special Issue is to assemble papers to reflect the state of wave energy covering a range of topics in numerical models, WEC control, physical model testing, development of PTO units, and WEC array modelling. Papers on all aspects of ocean wave energy conversion are invited, especially on the followina:

- Advanced numerical models
- Nonlinear WEC device modelling
- Physical model tests (laboratory and field experiences)
- PTO and control systems
- WEC array modelling, simulation, and control
- WEC array optimization

### Guest Editor

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### Deadline for manuscript submissions

closed (30 June 2019)



# Journal of Marine Science and Engineering

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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 School of Engineering, The UWA Oceans Institute, The University of Western Australia, Perth, WA 6009, Australia

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#### Journal Rank:

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### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.6 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).