



## Recent Advances in Ocean Wave Energy

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Deadline for manuscript  
submissions:

**closed (20 July 2023)**

### Message from the Guest Editors

Dear Colleagues,

It is estimated that global wave energy resources total 32,000 TWH/year and have great potential as an alternative to fossil energy sources to combat climate warming and ultimately achieve a green transformation of the energy structure due to its huge reserves, high energy flow density, ease of access, and low environmental impact. In the past 30 years, a variety of energy acquisition principles have been proposed, but the cost of survival and safety has remained high, preventing most power generation devices from entering the commercialization phase. This Special Issue aims to update the latest developments related to the field of wave energy, including, but not limited to, new concepts, modeling methods, control strategies, cost management, and hybrid systems.

- modeling of wave energy conversion systems
- modeling and testing of power take-off systems
- nonlinear and complex dynamics of wave energy conversion systems
- modeling, control, and operation of wave farms
- integration of wave energy devices and multifunction offshore platforms
- energy storage and grid integration
- wave prediction and power resource assessment
- hybrid systems





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## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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