



Recent Advances in Ocean Wave Energy

Guest Editors:

Prof. Dr. Hongda Shi

Prof. Dr. Dezhi Ning

Dr. Dahai Zhang

Prof. Dr. Zhen Liu

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





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)