



*water*

an Open Access Journal by MDPI



## Numerical and Experimental Modelling of Wave Field Variations around Arrays of Wave Energy Converters

Guest Editors:

**Prof. Dr. Peter Troch**

**Dr. Vicky Stratigaki**

**Dr. Matt FOLLEY**

**Dr. Eva Loukogeorgaki**

Deadline for manuscript  
submissions:

**closed (31 October 2020)**

### Message from the Guest Editors

Wave energy converters (WECs) will need to be installed in arrays (or farms) to capture a sufficient amount of energy from the incident waves. However, the individual WECs in an array configuration interact with each other, which affects the overall power output of the WEC array (near field effects). And, large WEC arrays, have a significant effect on the surrounding wave field. These are far field effects or wake effects, featuring reduced wave heights in the shadow zone behind the farm. Thus, an accurate assessment of the environmental impact of WEC arrays and farms due to the wave field variations is also required during the design phase.

Papers are invited which present experimental or numerical methodologies for modelling both near field effects and far field wake effects of WEC farms on the surrounding wave field, on the coastal morphology, or on other users of the sea, as the relevant tools for the environmental impact assessment.

Other floating devices placed in an array configuration are also targeted, including recent trends such as co-located wave and wind energy farms, offshore floating platforms, arrays of combined energy devices, etc.



[mdpi.com/si/22414](https://mdpi.com/si/22414)

# Special Issue



*water*



an Open Access Journal by MDPI

## Editor-in-Chief

### Dr. Jean-Luc PROBST

Centre de Recherche sur la  
Biodiversité l'Environnement  
(CRBE) UMR  
CNRS/UPS/INPT/IRD, Centre  
National de la Recherche  
Scientifique (CNRS), University of  
Toulouse, Campus ENSAT,  
Auzeville Tolosane, Toulouse,  
France

## Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

## 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), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)

## Contact Us

Water Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/water](https://mdpi.com/journal/water)  
[water@mdpi.com](mailto:water@mdpi.com)  
[X@Water\\_MDPI](https://twitter.com/Water_MDPI)