



*energies*



an Open Access Journal by MDPI

## Advances in Health Monitoring, Optimization and Control for Off-Shore Energy Systems

Guest Editor:

**Dr. Zhiwei Gao**

Department of Mathematics,  
Physics and Electrical  
Engineering, Northumbria  
University, Newcastle upon Tyne  
NE1 8ST, UK

Deadline for manuscript  
submissions:

**closed (31 December 2021)**

### Message from the Guest Editor

Offshore energy (including offshore wind, tide and wave) has been contributing to larger portions of renewable energy in the world. Very recently, offshore energy has been receiving much more attention and great investments from many governments and energy industries. Offshore energy conversion systems are complex and expensive, with less tolerance for performance degradation and unexpected shutdown, but they have high reliability, safety, productiveness and system operation performance. This has brought huge opportunities as well as challenges for researchers and engineers to develop effective and reliable health monitoring and diagnosis algorithms and intelligent optimization and control strategies to enhance offshore energy system performance. This Special Issue aims to provide a platform for researchers and engineers from academic institutes and industrial sectors to exchange their research ideas, disseminate their recent research results, and overview emerging research directions in offshore energy systems.



[mdpi.com/si/72872](https://mdpi.com/si/72872)

# Special Issue



# energies



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

## Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

## 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, RePEc, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** CiteScore - Q1 (*Engineering (miscellaneous)*)

## Contact Us

---

*Energies* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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

[mdpi.com/journal/energies](http://mdpi.com/journal/energies)  
[energies@mdpi.com](mailto:energies@mdpi.com)  
[X@energies\\_mdpi](https://x.com/energies_mdpi)