

## Special Issue

# High Utilization of Computational Fluid Dynamics and Turbomachinery in Renewable Energy System

### Message from the Guest Editors

We are honored to invite you to share your research on the application of turbomachinery in renewable energy systems. The scope of this Special Issue includes, but is not limited to, the following topics:

- Measurement and simulation;
- Flow analysis and visualization;
- Performance prediction;
- Component design and optimization;
- Steady-state and transient analysis;
- Cavitation, erosion and multi-phase flow analysis;
- Heat transfer and thermal analysis;
- Noise and vibration analysis;
- Multiphysics simulation;
- Cavitation model application and development
- Erosion model application and development
- Turbulence model application and development (RANS, LES, DES, SRS, DNS, etc.)
- Multiphysics coupling
- Machine learning and AI
- Industrial digitalization and digital twin

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### Guest Editors

Prof. Dr. Zhengwei Wang

Dr. Xingxing Huang

Prof. Dr. Xavier Escaler

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### Deadline for manuscript submissions

31 December 2025



## Energies

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## About the Journal

### 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.

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### Editor-in-Chief

Prof. Dr. Enrico Sciubba  
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