Special Issue

Recent Advances and Applications of Fluid Flow in Aerodynamics and Energy System

Message from the Guest Editor

In recent years, significant advances in computational technology and experimental methods have enabled researchers to address complex flow dynamics with unprecedented accuracy. These developments have opened up new possibilities for optimising the aerodynamic characteristics of wind turbines and other energy systems, which is crucial for improving energy efficiency and reducing operating costs. This Special Issue focuses on innovative research related to the flow dynamics around wind turbines and other energy systems. We welcome submissions that explore both fundamental and applied aspects of this topic, particularly in the following areas:

(1) Aerodynamic characteristics, flow control, and high-fidelity computational methods

(2) Wind resource assessment and environmental impact

(3) Numerical and experimental studies of fluid machinery in energy systems

Guest Editor

Dr. Ming Zhao

Department of Mechanics, School of Mechanical Engineering, Tianjin University, Tianjin, China

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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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