Special Issue

Numerical and Experimental Methods in Research of Renewable Energy Systems

Message from the Guest Editors

Turbulence is one of the most important phenomena that has been the subject of intense investigations in the past centuries. The vast majority of flows that can be encountered in nature or industry are turbulent and therefore the proper approach to the modelling of turbulent structures is of great importance. Varied length and time scales, as well as the stochastic nature, contribute to the complexity of this phenomenon and pose challenges in the numerical methods. This Special Issue aims to present and disseminate the most recent advances related to the theory, modelling and application of the turbulence models as well as the investigations of the cases where turbulence is an important factor. Topics of interest for publication include, but are not limited to:

- Validation of existing turbulence models
- Turbulence in multiphase flows
- Turbulence in climate modelling/meteorology
- Turbulence control methods
- Impact of turbulence on fluid flow machinery/heat transfer
- Application of machine learning in the turbulence modelling

Guest Editors

Dr. Krzysztof Rusin

Department of Power Engineering and Turbomachinery, Faculty of Energy and Environmental Engineering, Silesian University of Technology, 44-100 Gliwice, Poland

Dr. Sebastian Rulik

Department of Power Engineering and Turbomachinery, Faculty of Energy and Environmental Engineering, Silesian University of Technology, 44-100 Gliwice, Poland

Deadline for manuscript submissions

closed (31 May 2023)



Energies

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 7.3



mdpi.com/si/145738

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

mdpi.com/journal/energies





Energies

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 7.3



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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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 (Control and Optimization)

