



Wind Turbine Performance: Design, Evaluation and Testing

Guest Editor:

Dr. Samah Ben Ayed

Department of Engineering
Technology and Surveying
Engineering, New Mexico State
University, Las Cruces, NM 88003,
USA

Deadline for manuscript
submissions:

15 December 2024

Message from the Guest Editor

This Special issue is discuss how to improve the performance of the new generation of wind turbines from different points of view including design, testing and assessment of performance to overcome any potential problems. The purpose is to gather and publish the new research and development authored by worldwide researchers working on improving wind turbines in all aspects. The publications will impact academic, industrial and political stakeholders.

Topics of interest include, but are not limited to, the following:

- Design of wind turbine components such as blades, rotors, towers, etc.;
- Design specifications of different scale wind turbines including large-scale, medium-scale, small-scale and micro-scale;
- Optimization techniques in design;
- Wind tunnel testing, full-scale field testing and numerical simulations;
- Design and performance assessment including but not limited to algorithmic techniques such as machine learning and neural artificial networks;
- Data-driven monitoring and evaluation;
- Statistical approaches and risk assessments;
- Wind turbines' performance improvement.





wind

Tracked for
Impact
Factor

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Horia Hangan

Department of Mechanical and
Manufacturing Engineering,
Ontario Tech University, Oshawa,
ON L1G 0C5, Canada

Message from the Editor-in-Chief

Wind, as an open access journal, is dedicated to disseminating rigorously peer-reviewed publications to advance knowledge and technology in wind-energy related areas. The journal brings many opportunities for actively spreading novel concepts and advancements in multi-disciplinary wind technology and related issues by covering the wind-related scientific and engineering aspects, including but not limited to meteorology, materials, and civil, mechanical, and electrical engineering, as well as the related subjects, such as wind-energy related economics, and social and environmental topics.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [ESCI \(Web of Science\)](#) and [other databases](#).

Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 43.5 days after submission; acceptance to publication is undertaken in 12.5 days (median values for papers published in this journal in the first half of 2024).

Contact Us

Wind Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/wind
wind@mdpi.com
[X@Wind_MDPI](#)