

Special Issue

Advances in Solid and Fluid Mechanics for Offshore Wind Turbines

Message from the Guest Editors

In this Special Issue, we seek to publish a wide set of articles which address the advances in solid and fluid mechanics for OWTs. It is hoped that this open-access Special Issue will provide a platform for knowledge transfer between industrial and academic experts with the current state of the art for the design and life assessment of OWTs. Original research articles and reviews are welcome. Research areas may include, but are not limited to, the following themes:

- Fluid–structure interaction;
- Structural integrity;
- Enhanced design and life assessment;
- Damage analysis;
- Fracture mechanics;
- Monitoring and inspection;
- Corrosion protection;
- Atmospheric boundary layer;
- Flow control;
- Rotor aerodynamics;
- Turbine wake interaction;
- Wind farm blockage;
- Wind farm optimization.

Guest Editors

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Deadline for manuscript submissions

closed (15 February 2024)



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About the Journal

Message from the Editor-in-Chief

Wind is an open access journal dedicated to disseminating rigorously peer-reviewed publications to advance knowledge and technology in wind research-related areas such as wind engineering, wind energy and wind environment. The journal brings new opportunities for actively disseminating fresh, innovative and multidisciplinary wind-related concepts and applications. It covers aspects related but not limited to meteorology; civil, mechanical, aeronautical and electrical engineering; risk analysis and economic, social and environmental impacts.

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Author Benefits

High Visibility:

indexed within ESCI (Web of Science), Scopus, and other databases.

Journal Rank:

CiteScore - Q2 (Engineering (miscellaneous))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 25 days after submission; acceptance to publication is undertaken in 9.6 days (median values for papers published in this journal in the second half of 2025).