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Advances in Solid and Fluid Mechanics for Offshore Wind Turbines

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Deadline for manuscript
submissions:

closed (15 February 2024)

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.



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Special Issue



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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.

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