



Wind Turbine Aerodynamics

Guest Editor:

Prof. Dr. Wen Zhong Shen

Department of Wind Energy, Aero
and Fluid Dynamics Section, Nils
Koppels Allé, Building 403, 2800
Kgs. Lyngby, Denmark

Deadline for manuscript
submissions:

closed (30 September 2018)

Message from the Guest Editor

Dear Colleagues,

In order to reach the goal of 100% renewable energy consumption, wind energy, as a pioneer of renewable energy, is developing very quickly all over the world. To reduce the levelized cost of energy (LCOE), the size of a single wind turbine has been increased to 10 MW nowadays and it will increase further in the near future. Big wind turbines and their associated wind farms have many challenges in aerodynamics, aero-elasticity and aeroacoustics. The typical effects are mainly related to the increase in Reynolds number and blade flexibility. This Special Issue collects some important works addressing the aerodynamic challenges to help scientifically the realization of such development.

Prof. Wen Zhong Shen
Guest Editor

Keywords:

- Wind turbine
- Wind farm
- Aerodynamics
- Aero-elasticity
- Aeroacoustics
- Fluid-structure interaction





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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, Inspec, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/Applsci)