Special Issue

Wind Turbine Advances

Message from the Guest Editors

The environmental challenges are driving the community to press and accelerate in the ecological transition and CO2 reduction toward a fossil-free future. In this context, renewables (especially wind energy), are now having the largest attention than ever. Contribution is demanded from the scientific research to boost wind energy technology development and minimize the LCOE, making the ecological transition sustainable. This Special Issue aims to collect recent and original contributions on advances in wind turbines and wind energy research. The topics included are:

- Advances in design and control of wind turbines;
- Annual energy production optimization and losses estimation;
- Control strategies for floating wind turbines;
- Costs and life cycle assessment;
- Leading edge erosion and protection;
- Noise control and environmental impact;
- Predictive maintenance and damage detection in wind turbines;
- Vertical-axis wind turbines for offshore wind energy;
- Wind-energy-based systems and simulations;
- Wind inflow modelling, prediction, and measurement;
- Wind farm layout and control;
- Wind resource assessment;
- Wind turbine aerodynamics and aeroelasticity.

Guest Editors

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Deadline for manuscript submissions

closed (10 March 2023)

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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.

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