Special Issue

Aerodynamically Coupled Phenomena in Wind Turbine

Message from the Guest Editors

This Special Issue in Energies, entitled Aerodynamically Coupled Phenomena in Wind Turbine, focuses on recent advances in basic research, technology development, and environmental impacts of new Wind energy technologies. Wind turbines interacts with atmospheric flows by exhibiting various physical responces such as meandering wakes, noise, blade dynamic stall, power fluctuations, etc. The issue includes papers that either discuss new engineering and science or reviews of the existing literature. Topics examined include, among others, rotational aerodynamic noise, unsteady aerodynamics science and technology, inflow effects on noise and power, dynamic instability due to aerodynamics and water waves, combining new technologies with prections and measurements. A discussion on the multi-physical nature of wind turbine operations and current technological problems seen in wind farms will be the focus of the present special edition issue.

Guest Editors

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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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